



# **TABLE OF CONTENTS**

arlsbad Academic Catalog	5
Welcome	5
Administration	
History of NMSU Carlsbad	6
Essential Information for Students	7
Academic Programs	7
Admissions	8
Enrollment in Graduate Courses	9
Financial Aid & Scholarship Services for the NMSU System	10
General Education Courses	11
Graduation Requirements	15
International Students	16
Military and Veterans Programs (MVP)	18
Recognition of Academic Achievement	20
Registration	21
Repeating Courses	21
Resources for Students	21
Transfer Students	22
Tuition, Fees and Other Expenses	24
The NMSU System Academic Regulations	25
Academic Support Services, Costs, Campus Resources, Student Activities	47
Adult Education and GED Preparation	47
Apprenticeship Program	48
Barnes & Noble Bookstore	48
Career and Job Placement Services	48
Citizen's Professional Advisory Councils	48
Community Education	48
Counseling and Student Development Center	48
Developmental Programs and Services	49
Learning Assistance Center	50
Learning Technology Center	50
Library and Media Center	50
Service Learning Opportunities	51
Small Business Development Center	51
Student Organizations	51
Video Conferencing and ITV	52
WorkKeys	52
Fields of Study	52

Common Course Numbering Crosswalk	53
Associate Degree and Certificate Programs	93
Accounting and Banking	94
Accounting - Certificate	95
Banking - Certificate	95
Agriculture	96
Agriculture - Associate of Applied Science	96
Associate of Arts and General Studies	98
Associate of Arts Degree	98
General Studies - Associate Degree	99
Auto Body Collision and Repair	100
Auto Body Collision Repair - Associate of Applied Science	102
Automotive Refinishing - Certificate	102
Non-Structural Collision Repair - Certificate	103
Structural Collision Repair - Certificate	104
Automotive Technology	104
Automotive Technology - Associate of Applied Science	
	107
Automotive Technology - Certificate	107
Building Technology	108
Building Technology - Associate of Applied Science	110
Building Trades - Certificate	111
Business Management	111
Business Management - Associate of Applied Science	110
Business Office Technology	113 114
Business Office Technology (Accounting) - Associate of	114
Applied Science	117
Business Office Technology (Administrative Assistant) -	
Associate of Applied Science	117
Business Office Technology - Certificate	118
Computer and Information Technology	119
Computer and Information Technology (IT Specialist) - Associate of Applied Science	122
Computer and Information Technology (Networking) - Associate of Applied Science	123
Computer and Information Technology (Programming) - Associate of Applied Science	124
Microcomputer Applications - Certificate	125
Criminal Justice	125
Criminal Justice - Associate in Criminal Justice	126
Digital Media Technology	127
Digital Animation - Certificate	132

Digital Graphics - Certificate	Industrial Maintenance Technology (Electrical) - Certificate
Digital Video - Certificate	
Digital Video Game Animation - Certificate 133	Industrial Maintenance Technology (Mechanical) - Certificate
Digital Media Technology (Digital Animation) - Associate of Applied Science	Industrial Maintenance Technician (Electrical) - Associate of Applied Science
Digital Media Technology (Digital Graphics) - Associate of Applied Science	Industrial Maintenance Technician (Mechanical) - Associate of Applied Science
Digital Media Technology (Digital Video) - Associate of Applied Science	Manufacturing Technology
Drafting and Graphics Technology	Manufacturing Technology (Electronics Assembly) -
Drafting and Graphics Technology - Certificate 141	Associate of Applied Science
Drafting and Graphics Technology (Architectural Technology) - Associate of Applied Science	Manufacturing Technology (Manufacturing Processes) - Associate of Applied Science
Drafting and Graphics Technology (General Drafting) -	Natural Gas Compression Technology
Associate of Applied Science	Nursing 175
Early Childhood Education	Licensed Practical Nursing - Certificate
Early Childhood Education - Associate Degree	Nursing - Applied Associate Degree 180
Early Childhood Education - Certificate	Paralegal Studies
Education	Paralegal Studies - Certificate
Education - Associate Degree 148	Phlebotomist Technician - Certificate of Achievement
Emergency Medical Technician 150	Pre-Business
Emergency Medical Technician Basic - Certificate 153	Pre-Business - Associate in Pre-Business
Emergency Medical Technician Intermediate - Certificate	Science
	Associate of Science Degree
Emergency Medical Technician Paramedic - Associate of	Social Work
Applied Science	Social Work - Associate Degree
Emergency Medical Technician Paramedic - Certificate155	Surgical Technology
Engineering	Surgical Technology - Associate of Applied Science 191
Engineering - Associate of Science	Welding Technology
Geographical Information Systems	Welding Technology - Associate of Applied Science 193
Health Information Technology	Welding Technology - Certificate 194
Health Information Technology - Associate of Applied	Course Descriptions
Science	A S-ARTS AND SCIENCES
Health Information Technology - Certificate	ACCT-ACCOUNTING 196
Heritage Interpretation	ACES-AGRI, CONSUMER & ENV SCIE
Heritage Interpretation - Associate of Arts	AEEC-AGRICULTURAL ECON/ECON197
Heritage Interpretation - Certificate	AERO-AEROSPACE STUDIES
Hospitality and Tourism	AERT-AEROSPACE TECHNOLOGY
Hospitality and Tourism (Lodging & Tourism) - Associate of	AGRO-AGRONOMY199
Applied Science	AHS-ALLIED HEALTH SCIENCE
Hospitality and Tourism (Food & Beverage) - Associate of	ANSC-ANIMAL SCIENCE
Applied Science	ANTH-ANTHROPOLOGY
Industrial Maintenance Technology	ARCH-ARCHITECTURE 201

ART-ART ...... 203

ARTH-ART HISTORY	203	ECON-ECONOMICS	240
ARTS-ART STUDIO	203	EDLT-EDUCATIONAL TECHNOLOGY	240
ASTR-ASTRONOMY	205	EDUC-EDUCATION	240
AUTO-AUTOMOTIVE TECHNOLOGY	206	ELAD-EDUCATIONAL LEADERSHIP ADMINISTRATION	241
AVIM-AVIATION MAINTENANCE	208	ELT - ELECTRONICS TECHNOLOGY	241
AXED-AGRICULTURAL EXTN EDUC	208	ELWK-ELECTRICAL LINEWORKER	242
B A-BUSINESS ADMINISTRATION	209	ENGL-ENGLISH	243
BCHE-BIOCHEMISTRY	209	ENGR-ENGINEERING	245
BCIS-BUSINESS COMPUTER SYSTEMS	209	ENTR-ENTREPRENEURSHIP	245
BCT-BUILDING CONSTRUCTION TECH	209	ENVS-ENVIRONMENTAL SCIENCE	245
BFIN-BUSINESS FINANCE	211	EPWS-ETMLGY/PLNT PTHLGY/WD SCI	245
BIOL-BIOLOGY	211	FCSC-FAMILY AND CONSUMER SCIENCES	245
BLAW-BUSINESS LAW	212	FCST-FAMILY AND CHILD STUDIES	246
BLED-BILINGUAL EDUCATION	212	FDMA-FILM & DIGITAL MEDIA ARTS	246
BMGT-BUSINESS MANAGEMENT	213	FIRE-FIRE INVESTIGATION	250
BOT-BUSINESS OFFICE TECHNOLOGY	215	FREN-FRENCH	252
BUSA-BUSINESS ADMINISTRATION	215	FSTE-FOOD SCIENCE & TECHNOLOGY	253
C E-CIVIL ENGINEERING	215	FWCE-FISH,WILDLF,CONSERV ECOL	253
C S-COMPUTER SCIENCE	215	FYEX-FIRST YEAR EXPERIENCE	253
CCDE-DEVELOPMENTAL ENGLISH	216	GENE-GENETICS	254
CCDM-DEVELOPMENTAL MATHEMATICS	216	GEOG-GEOGRAPHY	254
CCDR-DEVELOPMENTAL READING	217	GEOL-GEOLOGY	255
CCDS-DEVELOPMENTAL SKILLS	217	GNDR-WOMEN'S STUDIES	255
CEPY-COUNSELING & EDUCATIONAL PSYCHOLOGY	217	GRMN-GERMAN	255
CHEF-CULINARY ARTS	218	HIST-HISTORY	256
CHEM-CHEMISTRY	220	HIT-HEALTH INFO TECHNOLOGY	257
CHIN-CHINESE	221	HLED-HEALTH EDUCATION	258
CHME-CHEMICAL & MATERIALS ENGR	221	HMSV-HUMAN SERVICES	258
CHSS - COMM HEALTH/SOC SRVCS	222	HNRS-HONORS	258
CJUS-CRIMINAL JUSTICE	222	HORT-HORTICULTURE	260
COMM-COMMUNICATION	222	HOST-HOSPITALITY AND TOURISM	260
CSEC-CYBERSECURITY	223	HRTM-HOTEL/RESTRNT/TOURISM MGT	261
CTEC-CYBER TECHNOLOGY	223	HVAC-HEATING/AC/REFRIGERATION	262
CTFM-CLTHNG/TXTLS/FSHN MRCHDSG	225	I E-INDUSTRIAL ENGINEERING	263
DANC-DANCE	225	INMT - INDUSTRIAL MAINTENANCE	263
DAS-DENTAL ASSISTING	227	INTEGRATED NATURAL SCIENCES	264
DHYG-DENTAL HYGIENE/HYGIENIST	228	JAPN-JAPANESE	264
DMS-DIAGNOSTIC MED SONOGRAPHY	230	JOUR-JOURNALISM	265
DRFT-DRAFTING	232	L SC-LIBRARY SCIENCE	265
E E-ELECTRICAL ENGINEERING	235	LANG-LANGUAGE	267
E T-ENGINEERING TECHNOLOGY	235	LAWE-LAW ENFORCEMENT	267
ECED-EARLY CHILDHOOD EDUCATION	238	LIBR-LIBRARY SCIENCE	268

LING-LINGUISTICS	268
M E-MECHANICAL ENGINEERING	268
M SC-MILITARY SCIENCE	269
MAT-AUTOMATION & MANUFACTURING	269
MATH-MATHEMATICS	270
MGMT-MANAGEMENT	272
MKTG-MARKETING	272
MUSC-MUSIC	272
NA - NURSING ASSISTANT	274
NAV-NAVAJO	276
NGEC-NATURAL GAS ENGINE COMP	276
NURS-NURSING	276
NUTR-NUTRITION	280
OATS-OFFICE ADMINISTRATION TECHNOLOGY SYSTEMS	
	280
OEBM-BIOMEDICAL TECHNOLOGY	282
OECS-COMPUTER TECHNOLOGY	283
OEEM- PARAMEDIC	285
OEET- ELECTRICAL TRADES	288
OEGR-DIGITAL GRAPHIC TECH	288
OEGS-GEOGRAPHIC INFO SYS	288
OETS-TECHNICAL STUDIES	289
PHED-PHYSICAL EDUCATION	289
PHIL-PHILOSOPHY	290
PHLS-PUBLIC HEALTH SCIENCES	290
PHYS-PHYSICS	290
PL-S-PARALEGAL SERVICES	292
POLS-POLITICAL SCIENCE	293
PORT-PORTUGUESE	294
PSYC-PSYCHOLOGY	294
RADT-RADIOLOGIC TECHNOLOGY	294
RESP - RESPIRATORY THERAPY	295
RGSC-RANGE SCIENCE	296
SIGN-SIGN LANGUAGE	297
SMET-SCIENCE/MATH/ENG/TECH	297
SOCI-SOCIOLOGY	297
SOIL-SOIL	297
SOWK-SOCIAL WORK	298
SPAN-SPANISH	298
SPED-SPECIAL EDUCATION	299
SPHS-SPEECH & HEARING SCIENCE	299
SPMD-SPORTS MEDICINE	299

SUR-SURVEYING	300
SURG-SURGICAL TECHNOLOGY	300
TCEN-ENVIRONMENTAL/ENERGY TECH	301
THEA-THEATER	303
WATR-WATER UTILITIES	304
WELD-WELDING TECHNOLOGY (WELD)	305
Personnel	306
Index	308

# CARLSBAD ACADEMIC CATALOG

# New Mexico State University Carlsbad Catalog 2020-2021

Academic programs at New Mexico State University Carlsbad are available to all students without regard to age, ancestry, color, disability, gender, national origin, race, religion, sexual orientation or veteran status. Any item in this catalog is subject to modification at any time by proper administrative procedure.

Catalog effective summer 2020 through spring semester 2028.

# Welcome

Welcome to the New Mexico State University at Carlsbad campus. We are extremely pleased that you are devoting your time and energy to researching the college's diversified events and programs. All of the NMSU Carlsbad staff is very proud of our college and we would relish the opportunity to have you join the college as a student or as an employee.

As you peruse the information in the catalog, please be sure to pay particular attention to the variety and quality of associate degree and certificates offered at the college. NMSU Carlsbad has experienced continuing growth over the past few semesters and the college plans to continue that growth by increasing course offerings and expanding dual credit, academic, and vocational programs.

NMSU Carlsbad was among the first community colleges in New Mexico, established in 1950 as the Carlsbad Instructional Center. In 1953 NMSU Carlsbad became a part of the NMSU system, which was at the time known as the College of Agriculture and Mechanical Arts. Since that date, NMSU Carlsbad has increased in size, currently serving more than 2,000 students throughout Eddy County and employing approximately 105 full-time and 60 part-time employees.

NMSU Carlsbad is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools and was one of the first institutions to be admitted to the HLC's Academic Quality Improvement Program (AQIP) which is a unique accreditation approach focused on continuous quality improvement. Due to our commitment to quality and continuing improvement, NMSU Carlsbad has been recognized on three separate occasions by Quality New Mexico and the college has been recognized for the past three years as a Top College and University in New Mexico.

NMSU Carlsbad's vision is to become "a diverse and community-centered institution dedicated to excellence and student success through transformative discovery." The college will strive to accomplish this vision by focusing on our mission which is "to provide students the resources necessary for them to fulfill their educational potential so that they may help meet the needs of their community as well-trained, well-educated, and productive citizens."

In order to accomplish this mission, quality must be stressed in all college operations and services. As a comprehensive community college, we strive to meet the needs of all of our service area constituents by providing a broad spectrum of resources including academic and vocational training, dual credit programs of study, non-credit continuing education training, workforce development and contract training, small business development assistance, and online learning programs. The

college is committed to providing these opportunities which are vital to the success of Eddy County and southeastern New Mexico.

Thank you for visiting and please feel free to contact our HR Department at (575) 234 – 9208 or one of our Counseling and Student Development staff at (575) 234 – 9337 if you have any questions or need additional information.

# Administration Campus President

Pending

# **Board of Advisors - NMSU Carlsbad**

David Shoup (District II), President

Ron Singleton (District III), Vice President

Simon Rubio District I, Secretary

Robbie Chacon (District V), Board Member

Trent Cornum (District IV), Board Member

# **Board of Regents - NMSU**

**Michelle Lujan Grisham**, Governor of New Mexico, Ex Officio Regent from Santa Fe

Dina Chacón-Reitzel, Chair

Ammu Devasthali, Vice Chair

Luke Sanchez, Secretary/Treasurer (Student Regent)

Debra P. Hicks, Member

Arsenio Romero, Member

# **NMSU Carlsbad Departments**

Academics Chief Academic Officer/Provost (575) 234-9215

Admissions, Registration and Student Services (575) 234-9222

Adult Education (575) 234-9250

Barnes & Noble Bookstore (575) 234-9240

Business Office (575) 234-9200

Campus Health Center (575) 234-9291

Counseling/Student Development Center (575) 234-9337

Information Systems (575) 234-9448

Institutional Research Coordinator

(575) 234-9237

Library Services (575) 234-9330

Learning Technology Center (LTC) Canvas Support (575) 234-9261

Manufacturing Sector Development Program/Apprenticeships/Craft Skills

Training Programs Program Coordinator (575) 234-9271

Public Relations (575) 234-9414

Inquiries about New Mexico State University Carlsbad and requests for additional information are welcome.

Write or telephone

Office of Student Services New Mexico State University Carlsbad 1500 University Drive Carlsbad, New Mexico 88220 Phone: (575) 234-9200

Toll Free: 1 (888) 888-2199 Fax: (575) 885-4951

Website: carlsbad.nmsu.edu

# **History of NMSU Carlsbad**

New Mexico State University Carlsbad "NMSU Carlsbad" was established in 1950 as the State's first community college and was named the Carlsbad Instructional Center. Ten years later, the Center was renamed as a branch campus of New Mexico State University. In 1980, the campus was relocated to a new building, which was expanded with an additional wing of classrooms in 1987 and was expanded again by the addition of a computer facility wing for occupation in 1996. The newest building, the Allied Health Center was added in 2011.

Throughout its history, the campus has been responsive to the changing academic needs of the region and the immediate Carlsbad Community. It has offered courses which apply directly to the University's Las Cruces campus for graduation at the baccalaureate level. Some upper division and graduate courses are delivered by the University's Las Cruces faculty on site at the Carlsbad campus.

# Mission of the College

The mission of New Mexico State University Carlsbad is to provide students the resources necessary for them to fulfill their educational potential so that they may help meet the needs of their community as well-trained, well-educated, and productive citizens.

# **Vision Statement**

NMSU Carlsbad, a diverse and community-centered institution dedicated to excellence and student success through transformative discovery.

# **Institutional Values**

New Mexico State University Carlsbad is committed to and demonstrates:

- · Diversity and Inclusion
- Accountability
- Excellence
- · Discovery
- Engagement

# Accreditation

NMSU Carlsbad is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools and in 2018 the college was transitioned from the Academic Quality Improvement Program (AQIP) to the Open Pathway model of accreditation. The associate degree program in nursing offered by NMSU Carlsbad is accredited fully by the Accreditation Commission for Education in Nursing. Both the certificate and associate degree programs in nursing are approved by the State of New Mexico Board of Nursing. All vocational programs offered by NMSU Carlsbad are reviewed and approved by the New Mexico State Department of Education's Division of Vocational, Technical and Adult Education.

# **Professional Associations**

The college holds membership in the New Mexico Community College Association, the American Association of Community Colleges and the American Association of Higher Education. In addition, courses offered by NMSU Carlsbad have been approved for enrollment by those veterans and dependents that qualify for higher education benefits under the various sections of the Veterans' Education Assistance Act.

# NMSU Carlsbad Graduation and Retention Rates

These rates may be found on the NMSU Institutional Research web site at: <a href="https://oia.nmsu.edu/data-reports/natrept/ipeds/">https://oia.nmsu.edu/data-reports/natrept/ipeds/</a>.

# **Gainful Employment**

At a public and private not-for-profit institutions, gainful employment programs are Title IV-eligible certificate programs. Effective July 1, 2011, the U.S. Department of Education requires schools with Gainful Employment programs to disclose certain information about these programs. This information can be found at <a href="https://carlsbad.nmsu.edu/about-nmsu-carlsbad/gainful-employment/">https://carlsbad.nmsu.edu/about-nmsu-carlsbad/gainful-employment/</a>.

# **Operating Agreement**

The Board of Regents of New Mexico State University, hereafter called "Regents" and the Board of Education of the Carlsbad Municipal Schools District have entered into the following agreement concerning the operation of NMSU Carlsbad.

- 1. Act in an advisory capacity to the Regents in all matters relating to the conduct of NMSU Carlsbad.
- Approve an annual budget for NMSU Carlsbad for recommendation to the Regents.
- 3. Certify to the County commissioners the tax levy.
- 4. Conduct the election for tax levies for NMSU Carlsbad.

The Regents, through appropriate representatives, shall have full authority in relation to all academic and administrative matters at NMSU Carlsbad, although the Board of Education will serve in an advisory capacity in such matters.

# **Why Students Choose NMSU Carlsbad**

Most students choose to attend NMSU Carlsbad because the campus is close to their homes. In contrast to attendance at larger institutions, students attending NMSU Carlsbad receive more individual attention from faculty and staff to encourage their academic success, and they can earn credit in lower-division courses-equivalent to those offered by NMSU Las Cruces—at a lower cost. Many students also have the opportunity to complete their high school instruction, and to complete their college education at an associate level on the same campus. The college offers classes at times convenient to full-time as well as part-time students. Academic programs and related services are expanding regularly to meet the demands of the changing student body and local community. Students have access to a multitude of valuable services offered on-campus to meet their educational and career goals. Entertainment and cultural events are sponsored regularly. Students are equipped with the knowledge, competencies and skills to enter the work force immediately or to transfer to baccalaureate-granting institutions anywhere in the country.

# **Become a Part of the University**

NMSU Carlsbad is the principal public institution for associate-level study in Eddy County. Our foremost purpose is to provide quality academic programs, facilities, and resources to accommodate the needs of our richly diverse student body. Here students have the opportunity to learn from a dedicated and diverse group of faculty and college instructors who regard excellence in teaching as their principal goal. The campus' low student-to-faculty ration encourages the individual attention and personalized instruction often unavailable at larger institutions. The low tuition associated with enrollment at NMSU Carlsbad, compared to costs to attend larger campuses, often permits students to economize the cost of higher education.

Students who need to complete their high-school equivalency requirements can attend special courses at NMSU Carlsbad through the Adult Education "A E" and General Educational Development "GED" preparation programs. Students who are still enrolled in high school can take college courses at NMSU Carlsbad through special articulation and advanced placement programs. Students who are working either full-time or part-time can still attend NMSU Carlsbad because classes are offered fourteen hours per day, Monday through Friday, and additional classes are offered on Saturdays as well as online. Students may also pursue their post-secondary education and job training through special courses contracted with industries and businesses in the regions.

A variety of resources and services are made available to students who attend NMSU Carlsbad. These include the assessment of academic preparation for college-level instruction, placement in courses intended to address academic weaknesses, tutorial assistance, financial assistance, career guidance and wellness programs.

Most academic credit courses offered at NMSU Carlsbad duplicate those offered at NMSU Las Cruces, and may be used for the total credit requirements for baccalaureate graduation. Academic programs at NMSU Carlsbad are expanding continually in response to the needs of our students and in reflection of the changing world in which our graduates will live, work and contribute to global welfare. The campus' excellent certificate and associate programs and faculty are supported by state-of-the-art technology, including computer-assisted instruction in specific liberal arts and vocational-technical courses, as well as access to the Internet. Students benefit by gaining access to these technologies as well

as to the campus library, which serves as a hub to connect students to global and local resources in digital and print formats.

NMSU Carlsbad also provides excellent fine arts facilities for instruction and accommodates several entertainment and cultural events annually. Drama students enroll at NMSU Carlsbad participate in Carlsbad's community theatre. Students who have recently moved to the region will find numerous recreational activities and facilities associated with the Pecos River and park system. In addition, Carlsbad hosts a number of art galleries, the Carlsbad Museum and Art Center and the Living Desert Zoo and Gardens State Park. The city has a regional airport and is located ten miles from the entrance to the *world's eighth wonder*, the Carlsbad Caverns National Park. Residents are also within driving distance of a number of other national parks and sightseeing areas, which are accessible nearly all year due to the region's mild and pleasant winters and its warm and dry summers.

Placement of our graduates in meaningful careers is important to the economic stability of the region. Our Counseling and Student Development Center announces opportunities for students to engage in cooperative education and internship experiences; it also provides job information and related services to students who seek help defining and choosing their careers.

# **Essential Information for Students**

- Academic Programs (p. 7)
- · Admissions (p. 8)
- Enrollment in Graduate Courses (p. 9)
- · Financial Aid & Scholarship Services (p. 10)
- · General Education Courses (p. 11)
- <u>Graduation Requirements</u> (p. 15)
- International Students (p. 16)
- Military and Veterans Programs (MVP) (p. 18)
- Recognition of Degrees and Certificates (p. 20)
- · Registration (p. 21)
- · Repeating Courses (p. 21)
- · Resources for Students (p. 21)
- Transfer Students (p. 22)
- Tuition, Fees and Other Expenses (p. 24)

# **Academic Programs**

NMSU awards both designated and undesignated associate degrees following completion of at least 60 semester credits (excluding "N" suffix courses). The last 15 to 30 credits, depending on the requirements of the department in which the degree is pursued, must be completed at New Mexico State University Carlsbad. (Service personnel enrolled under the two-year Servicemembers Opportunity College program may be exempt from this requirement.)

The designation Meritorious Graduate is awarded to the top 15 percent of the students receiving associate degrees within each college in any one academic year; the students must have completed 45 or more credits with computable grades at NMSU. See <u>Fields of Study</u> (p. 52) section for a listing of certificates and degrees offered.

# **Community Colleges**

Many of the associate degrees offered on Las Cruces campus, as well as other programs, are available at NMSU's four community college

campuses. For more information on community college campus offerings, refer to the "Community Colleges" chapter in this catalog and to their respective catalogs or admissions offices.

Please see the Community College Catalogs for more information about the Associate Degree Programs.

Alamogordo Catalog <u>Dona Ana Catalog</u> <u>Carlsbad Catalog</u> (p. 5) <u>Grants Catalog</u>

# **Admissions**

A student may be accepted for undergraduate admission to NMSU Carlsbad as:

- 1. A degree-seeking student or
- A non-degree student under the policies and conditions as set forth in this section.

# Demonstration of Academic Competencies upon Entrance to NMSU Carlsbad

All entering students must complete required basic skills placement exams to determine their competency levels in Math, English and Reading prior to receiving course advisement or registering for classes. Based upon these scores and other relevant information (i.e. recent ACT scores, H.S. records), students are advised into the appropriate courses needed or required to address any academic skill weaknesses directly and as soon as possible after a student is admitted. All degree or certificate-seeking students are required to prove or establish basic skills competency before any official program degree or certificate may be awarded. Therefore, students who place into any developmental course upon completion of entry testing are encouraged to take and complete any required basic skills courses during their first year of enrollment at NMSU Carlsbad. Note that developmental educational courses are designated with the letter N and are calculated as part of a student's academic grade point, but though required, developmental courses may not be counted for credit toward an official degree or certificate plan.

## **New Student Orientation**

All new, first-time degree seeking students and transfer students with fewer than 30 credits are required to complete Aggie Welcome & Orientation prior to advising and registration. Readmit students and transfer students with more than 30 credits are invited to attend if they wish. For information, please contact the Counseling & Student Development Center at (575) 234-9337.

### How to Apply as a First Time Student

Qualifications for undergraduate admission to NMSU Carlsbad include the following:

Graduation from any U.S. high school or academy that is accredited by a regional accrediting association or approved by a state department of education or state universities.

Students who pass the GED test after January 1, 2002, need a score of 450 or higher. Students who passed the GED test between January 1, 1997 and January 1, 2002, need a score of 45 or higher. Students who passed the GED test prior to January 1, 1997, need a score of 40 or higher.

Students are required to submit applications for admission prior to registration. If transcripts are not received by the completion of registration, students must sign a "Non-Degree Conditional Agreement" to allow additional time for transcripts to be received. If transcripts are not received by the date set for conditional enrollment, the student will remain in non-degree status.

Students are encouraged to apply for admission to NMSU. When reviewing the admissibility of students, we consider many factors, including: High school GPA, test scores, dual credit coursework, leadership experience, community involvement, and other accomplishments. Applicants may be asked for additional information, including academic letters of recommendation, in support of their application.

Students graduating high school in 2016 or later.

Minimum high school requirements:

Subject	Units
English	4 units <sup>1</sup>
Science	2 units beyond general science
Mathematics	4 units <sup>2</sup>
Foreign Language or fine arts	1 unit

- Must include at least 2 units of writing-intensive courses one of which must be a junior or senior level course.
- Completion of Algebra 1, Geometry, Algebra 2, and one additional math course.

#### **How to Apply as GED or HiSet student**

A student who is 16 years of age and has satisfactorily passed the GED is eligible for admission to NMSU Carlsbad. The student must provide an original transcript of the GED scores and go through the regular admission process.

# How to Apply as a Home-School Student

Students enrolled in a home school program may be accepted to NMSU if they meet the requirements for regular or provisional admission as previously stated. In addition, the home school educator must submit a signed transcript or document that lists the courses completed and grades earned by the student as well as indicate the date the student completed or graduated from the home school program. Home school students who are New Mexico residents and wish to participate in the Lottery Success Scholarship program are required to submit official New Mexico GED test results in English.

# How to Apply for the Aggie Pathway Program

Student Applicants who do not meet NMSU Las Cruces admission requirements may apply to participate in the Aggie Pathway to the baccalaureate program at any of the NMSU community colleges. Aggie Pathway students may transition to the NMSU Las Cruces campus after successful completion of any required developmental education courses and 24 degree credits with a 2.5 cumulative college GPA. Each student will follow an individualized study plan developed in partnership with an academic advisor that typically includes study skills courses, developmental education courses, and/or general education courses. For more information, go to <a href="http://aggiepathway.nmsu.edu/">http://aggiepathway.nmsu.edu/</a> or call (575) 646-8011.

## How to Apply as a Non-degree Seeking Student

Non-degree admission is designed to meet the needs of mature, part-time students who do not wish to pursue a degree at this university. Courses

taken in this status may not be used to meet university admission requirements. Students interested in using a non-degree credit for initial teacher certification or recertification in a new field need to contact the College of Education. Also students who wish to take a course without a graded credit may choose to audit courses with the consent of the instructor, provided the facilities are not required for regular students.

Students on non-degree status are ineligible to receive financial aid or student employment; nor are they eligible to participate in student government or intercollegiate athletics. They are also ineligible to receive benefits from any veteran's program.

Transcripts from previous institutions, high school, and/or results of college entrance exams may be required to assure readiness for university-level courses. A \$20 nonrefundable, non-degree application fee is required. Non-degree students are subject to the same university regulations as regular students.

## **How to Apply to the Nursing Program**

Entrance and enrollments to the nursing programs are limited. Special applications are required and may be obtained from the offices of the Nursing Program. In addition to meeting regular undergraduate admissions requirements, students must be selected into these programs. Nursing students are also required to take the HESI A2 and successfully complete a certified nursing assistant program to be eligible for entry into the program. Nursing majors must earn satisfactory grades.

## **Changing from Non-Degree Status**

A non-degree student in good academic standing at NMSU must submit a formal application for a change of status from non-degree to degree seeking. Requirements to regular admission must be met. Non-degree students may not transfer more than 30 credits from this status to any undergraduate degree program with the exception of students participating in a high school concurrent enrollment program.

## **How to Apply for Readmission**

Former students of NMSU, who have been out of school for more than two consecutive terms are required to make a formal application for readmission. Applications should be submitted to the Admissions Office at least 30 days before the opening of the semester or summer session for which the student plans to enroll.

A student who has attended other institutions during an absence must have official transcripts forwarded directly to the Admissions Office by the Registrar of each Institution and must be eligible to return to the college or university last attended. Transcripts must be received prior to the date or registration. Admission status at the time of readmission will normally be determined by previous NMSU academic standing. However, academic performance at other institutions attended during the applicant's absence from NMSU may be taken into consideration in determining the student's admission status.

# Opportunities for High School Students How to Apply as a Dual Credit High School Student

The dual credit program is designed to give high school students an opportunity to earn both high school and college credit through NMSU Carlsbad. Under the Dual Credit Master Agreement between NMSU Carlsbad and the local school districts, students enrolled in approved dual credit courses are eligible to have the full cost of tuition waived. Dual Credit participants do not have to pay for tuition or textbooks; however, students are responsible for any course-specific fees, such as lab or online fees. They may take a college level, career-technical course that

will simultaneously count toward high school graduation and a certificate or associate degree.

To qualify for dual credit, students must be enrolled at Artesia, Carlsbad, Jefferson Montessori Academy or Loving High School at least half time. Students must have a minimum high school GPA of a 2.0. Sophomores and students with a lower GPA may be considered on a case by case basis.

To enroll students must submit a dual credit packet during the college registration period that consists of an NMSU Carlsbad admission application (required only for students who have not attended in a semester or more), dual credit form with course request and all necessary signatures and submit a high school transcript.

For additional information on dual credit please contact the dual credit coordinator at (575) 234-9276.

# **Early College High School**

The Early College High School Initiative is designed to allow students to simultaneously earn a high school diploma while earning up to two years (60 hours) of college credit, which might result in a college certificate or associate degree by the time they graduate from high school. The facilities usually located on a college or university campus makes higher education more accessible and also helps students become more comfortable in a higher education environment. For further information on the admission requirements for early college high school contact the Carlsbad Early College High School directly (575) 234-9415.

### **Early Admission**

The early admit program gives student the opportunity to take college courses that are non-approved dual credit courses. Students must meet the same eligibility requirements as dual credit students. However, students will be required to pay course specific fees and purchase the book for the class. Students who are at or below freshman standing in the high school may not take academic courses at NMSU Carlsbad.

# **Admission Application Materials**

All documents submitted as part of the admission process become property of NMSU and will not be returned to the student. Application materials are retained for one calendar year for students who apply but do not attend.

# **Admission Application Deadlines**

The deadline for application to the Nursing Program is February 1<sup>st</sup> for the fall semester and September 1<sup>st</sup> for the Spring semester.

#### **Out-of-State Student and Legal Jurisdiction**

By applying for admission/enrollment, both the student and parents agree that New Mexico law prevails and all litigation will be in federal or state court in New Mexico.

## **Admissions Office Contact Information**

For more information, contact:

University Admissions Office, Room 111 New Mexico State University 1500 University Drive Carlsbad. NM 88220

# **Enrollment in Graduate Courses**

Undergraduates who wish to enroll in a graduate-level course numbered 450 or higher for undergraduate credit must secure prior written

permission from the instructor and course dean. Enrollment is by petition only and is limited to outstanding juniors and seniors.

# Financial Aid & Scholarship Services for the NMSU System

New Mexico State University Carlsbad 'NMSU Carlsbad' Financial Aid and Scholarship Services administers a broad spectrum of loans, grants, scholarships and work-study funding in an attempt to meet the financial need of the NMSU Carlsbad's students.

NMSU Carlsbad Financial Aid and Scholarship Services awards financial aid to students according to their individual calculated need. Parents of students are expected to contribute to their child's education according to their ability; taking into account their income, assets, number of dependents and other relevant information. Students themselves are expected to contribute from their own assets and earnings, including appropriate borrowing against future income. All information provided to NMSU Carlsbad Financial Aid and Scholarship Services is regarded as confidential in accordance with Family Educational Rights and Privacy Act (FERPA) and Gramm-Leach-Bliley Act (GLBA).

Students applying for financial aid must complete a Free Application for Federal Student Aid (FAFSA) designed to determine, in accordance with state and federal guidelines, the difference between what the student or family is expected to contribute and the cost of attending NMSU Carlsbad.

Among the factors that determine the family's Expected Family Contribution (EFC) are

- Annual adjusted gross income as reported to the Internal Revenue Service:
- 2. Savings, stocks, and/or bonds;
- 3. Other assets in the form of a business, farm or real estate;
- 4. Non-taxable income and benefits; and
- 5. Student's prior-prior year income and assets.

Students applying for financial aid should complete a FAFSA by visiting <a href="https://studentaid.ed.gov/sa/fafsa">https://studentaid.ed.gov/sa/fafsa</a>.

Please refer to the NMSU Carlsbad Financial Aid and Scholarship Services website for more information on available financial aid. A complete listing of programs and policies are available at <a href="https://carlsbad.nmsu.edu/financial-aid">https://carlsbad.nmsu.edu/financial-aid</a>.

# **General Eligibility Requirements**

To receive financial aid you must be enrolled as a degree seeking student in an eligible degree or certificate program and demonstrate the following:

That you are qualified to obtain an education by:

- Having a high school diploma or a recognized equivalent such as a General Educational Development (GED) certificate or
- Completing a high school education in a home-school setting approved under state law.

If you were enrolled in college in an eligible program or career school prior to July 2, 2012, you may show you are qualified to obtain a higher education by:

- Having passed an approved ability-to-benefit (if you don't have a diploma or GED, a college can administer a test to determine whether you can benefit from the education offered at that school);
- Completing six credit hours or equivalent course work toward a degree or certificate (you may not receive aid while earning the six credit hours)
- Be enrolled or accepted for enrollment as a regular student working toward a degree or certificate in an eligible program.

#### To be eligible for financial aid, you must also:

- Be a U.S. citizen or eligible non-citizen (state funded scholarships are available to undocumented students).
- Have a valid Social Security number or Alien registration number as shown on a Government-issued naturalization certificate.
- Be in good academic standing and meeting satisfactory academic progress (SAP).
- Sign a statement on the FAFSA certifying that you will use Federal student aid only for educational purposes.
- Sign a statement on the FAFSA certifying that you are not in default on a federal student loan and that you do not owe money back on a federal student grant.
- · Register with the Selective Service, if required.

# **Financial Aid Awards**

All financial aid awards are based on information provided by the student and/or parents, availability of funds and eligibility requirements. Any award may be revised based on changes in enrollment, cost of attendance, application for graduation, family contribution or failure to meet satisfactory academic progress. Withdrawals or reductions in enrollment may affect an award or any future awards. Financial Aid will not pay for audited courses or some repeats.

## **Grants**

The Federal Pell Grant is a federal grant available to undergraduate students with documented financial need. If the Pell Grant is insufficient to pay educational expenses, the student may be eligible to receive other types of aid, including a Federal Supplemental Educational Opportunity Grant (SEOG) or Leveraging Education Assistance Partnership Program Grant (LEAP), and/or other miscellaneous grants. These grants are awarded to undergraduate students who demonstrate exceptional financial need. For more information, contact NMSU Carlsbad Financial Aid and Scholarship Services or visit the university's financial aid website at: <a href="https://carlsbad.nmsu.edu/financial-aid/">https://carlsbad.nmsu.edu/financial-aid/</a>. Generally, grants do not have to be repaid.

## **Federal Direct Subsidized Loans**

The Federal Direct Subsidized Loan is a loan program for eligible undergraduate students who demonstrate financial need. The U.S. Department of Education pays the interest on a Direct Subsidized Loan while the student is enrolled in school at least half-time.

Eligible first time undergraduate student loan borrowers are subject to a maximum time period to receive Federal Direct Subsidized Loan. Students may not receive Federal Direct Subsidized Loans for more than 150% of the published length of their academic program (measured in academic years). A complete explanation of Subsidized Loan usage limits is available at <a href="https://fa.nmsu.edu/loans/federal-direct-loans/">https://fa.nmsu.edu/loans/federal-direct-loans/</a>.

#### **Federal Direct Unsubsidized Loans**

The Federal Direct Unsubsidized Loan is a loan program for eligible undergraduate students that do not demonstrate financial need. Unlike other federal loans, interest accrues while the student is attending school.

## **Federal Direct Loan Requirements**

Students receiving a subsidized or unsubsidized Federal Direct Loan, must complete an online entrance counseling session and a master promissory note before NMSU Carlsbad will issue the funds. In addition, students must complete an exit interview upon graduation or withdrawal from the university.

Repayment of a Federal Direct loan begins six months after graduation or six months after enrollment drops below 6 credits or less than half time for undergraduate students.

# **Work-Study Programs**

The Federal Work-Study Program provides employment opportunities for eligible students.

For more information on the U.S. Department of Education student aid programs, go to <a href="http://studentaid.ed.gov/">http://studentaid.ed.gov/</a> or see the NMSU Carlsbad Financial Aid website at <a href="https://carlsbad.nmsu.edu/financial-aid">https://carlsbad.nmsu.edu/financial-aid</a>.

## Withdrawals

Recipients of financial aid grants and loans who drop credits or withdraw may be required to return all or a portion of awarded Title IV funds. Further information regarding the return of Title IV funds is available on the NMSU website at <a href="https://fa.nmsu.edu/return-of-title-iv-funds/">https://fa.nmsu.edu/return-of-title-iv-funds/</a>.

# **Financial Aid Satisfactory Academic Programs**

Federal regulations require that financial aid recipients meet certain academic standards to be eligible for federal financial aid. To ensure that financial aid recipients are making satisfactory academic progress, academic transcripts are reviewed at the end of each term to determine eligibility for the next term. All terms of attendance are reviewed, including periods in which the student did not receive financial aid. All transfer credit hours are taken into account when satisfactory progress is reviewed. The Financial Aid SAP standards are not the same as NMSU Carlsbad's Academic Standards of Progress criteria.

# Elements of Financial Aid Satisfactory Academic Progress:

- Qualitative Progress: Undergraduate students must maintain a cumulative GPA of at least 2.0 (a C- average).
- Completion Rate: Students must complete a minimum of 70 percent of all coursework (registered credit hours) attempted at NMSU Carlsbad. Any course with a grade of withdraw (W), incomplete (I), repeats (RR), failure (F), audit (AU), or no credit (NC) are considered as attempted but not considered completed coursework. Repeated courses are included in the calculation.
- Maximum Time Frame: Undergraduate students must complete
  their program within 150 percent of the published length required by
  the program. Students who have reached the maximum allowable
  time will be suspended from receiving financial aid. Limited
  developmental/remedial hours are excluded from this calculation.
   Total attempted hours including repeated courses and transfer
  coursework are included in the student's maximum time frame
  calculation.

## **Financial Aid Warning**

'Warning' is a status assigned to a student the first semester they fail to meet the standard of satisfactory academic progress measured as Qualitative Progress and Completion Rate. If the student has not returned to satisfactory standing after this warning semester, he or she will be suspended from further financial assistance until the satisfactory progress standards are met.

## **Financial Aid Suspension**

Students are suspended from receiving financial aid if they do not meet satisfactory academic progress standards for financial aid purposes. Students on financial aid suspension will not receive any form of federal or state financial aid (grants, loans, work study). Financial aid eligibility is reinstated when all standards of satisfactory progress are met.

# **The Appeals Process**

Students suspended from financial aid may appeal the suspension if there are extenuating circumstances affecting their progress. Students who would like to appeal the suspension must submit an appeal form, available at <a href="https://fa.nmsu.edu./forms/">https://fa.nmsu.edu./forms/</a>. They must also submit all supporting documentation to NMSU Carlsbad Financial Aid and Scholarship Services.

A committee will review the appeal and may grant reinstatement of financial aid based on the extenuating circumstances that directly contributed to deficient academic performance. Appeals are evaluated on a term-by-term basis. All appeals, including relevant documentation, must be submitted by the semester deadline based on the current semester of enrollment. A student may appeal the termination of eligibility only twice during his or her career within the NMSU System.

#### Scholarships and Other Aid

Many students finance part of their education with scholarships, which may be awarded for academic achievement, special skills, talent and/or based on the applicants calculated financial need.

NMSU Carlsbad has a variety of scholarships that are offered to incoming freshman, transfer, and continuing students. State, institutional and private scholarships may also be available but amounts, deadlines and eligibility requirements vary. For more information, contact NMSU Carlsbad University Financial Aid and Scholarship Services or visit the NMSU Carlsbad's scholarship website at <a href="https://carlsbad.nmsu.edu/financial-aid/scholarships/">https://carlsbad.nmsu.edu/financial-aid/scholarships/</a>.

To be considered for most scholarships at NMSU for which you may be eligible you are required to apply online through Scholar Dollar\$, at <a href="https://scholarships.nmsu.edu/">https://scholarships.nmsu.edu/</a>. One scholarship application serves all NMSU students regardless of campus.

# Office of Financial Aid and Scholarship Services Contact Information

Office of Financial Aid and Scholarship Services, Room 107 1500 University Drive Carlsbad, NM, 88220 Phone: (575) 234-9225 carlsbad\_finaid@nmsu.edu

# **General Education Courses**

# **Associates Degree**

# **The New Mexico General Education Requirements**

General Education at NMSU provides all students with a broad foundation and common framework upon which to develop knowledge and skills, social consciousness and respect for self and others, thus enabling them to function responsibly and effectively now and in the future. General education courses at NMSU can be identified by the G suffix.

In accordance to state law (Post-Secondary Education Articulation Act), the New Mexico Higher Education Department has established a statewide model for General Education. Within the General Education model, is nine credits of electives that will be determined at an institutional level. The current approved NMSU General Education courses are listed below under each of the six general education areas.

Prefix	Title	Credits		
Area I: Communication	ons	10		
Select one course fro	Select one course from each sub group:			
English Composition-L	evel 1			
ENGL 1110G	Composition I			
ENGL 1110H	Composition I Honors			
ENGL 1110M	Composition I Multilingual			
English Composition-L	evel 2			
ENGL 2210G	Professional & Technical Communication			
ENGL 2221G	Writing in the Humanities and Social Science			
ENGL 2130G	Advanced Composition			
ENGL 2215G	Advanced Technical and Professional Communication			
Oral Communication				
AXED 2120G	Effective Leadership and Communication in Agriculture			
COMM 1115G	Introduction to Communication			
COMM 1130G	Public Speaking			
HNRS 2175G	Introduction to Communications Honors			
Area II: Mathematics		3-4		
MATH 1130G	Survey of Mathematics			
MATH 1220G	College Algebra			
MATH 1250G	Trigonometry & Pre-Calculus			
MATH 1350G	Introduction to Statistics			
MATH 1430G	Applications of Calculus I			
MATH 1511G	Calculus and Analytic Geometry I			
MATH 1521G	Calculus and Analytic Geometry II			
MATH 1521H	Calculus and Analytic Geometry II Honors			
MATH 2134G	Fundamentals of Elementary Math II			
MATH 2350G	Statistical Methods			
MATH 2530G	Calculus III			
Area III/IV: Laborator	y Sciences and Social/Behavioral Sciences <sup>1</sup>	10-11		
Area III: Laboratory Sc				
AGRO 1110G/ HORT 1115G	Introduction to Plant Science (Lecture & Lab)			
ANTH 1135G & ANTH 1135L	Introduction to Biological Anthropology and Introduction to Biological Anthropology Lab			
ASTR 1115G	Introduction Astro (lec+lab)			
ASTR 1120G	The Planets			
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory			

	BIOL 1130G	Introductory Anatomy & Physiology (non-
	BIOL 1190G	majors) Contemporary Problems in Biology
	BIOL 2110G	Principles of Biology: Cellular and Molecular
	& BIOL 2110L	Biology
		and Principles of Biology: Cellular and
		Molecular Biology Laboratory
	BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and
	& BIOL 2610L	Evolution and Principles of Biology: Biodiversity, Ecology,
		and Evolution Laboratory
	C S 171G	Introduction to Computer Science
	CHEM 1120G	Introduction to Chemistry Lecture and
		Laboratory (non majors)
	CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors
	CHEM 1225G	General Chemistry II Lecture and Laboratory
		for STEM Majors
	ENVS 1110G	Environmental Science I
	FSTE 1110G	Introduction to Food Science and Technology
	FSTE 2110G	Food Science I
	FWCE 1110G	Introduction to Natural Resources
	GEOG 1110G	Management  Physical Coography
	GEOG 1110G	Physical Geography Physical Geology
	HNRS 2116G	Earth, Time and Life
	PHYS 1115G	Survey of Physics with Lab
	PHYS 1125G	Physics of Music
	PHYS 1230G	Algebra-Based Physics I
	& PHYS 1230L	and Algebra-Based Physics I Lab
	PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab
	PHYS 1310G	Calculus -Based Physics I
	& PHYS 1310L	and Calculus -Based Physics I Lab
	PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab
	PHYS 2230G	General Physics for Life Science I
	& PHYS 2230L	and Laboratory to General Physics for Life
	PHYS 2240G	Science I
	& PHYS 2240L	General Physics for Life Science II and Laboratory to General Physics for Life
		Science II
Ar	ea IV: Social/Behavior	al Sciences
	AEEC/FSTE 2130G	Survey of Food and Agricultural Issues
	ANTH 1115G	Introduction to Anthropology
	ANTH 1137G	Human Ancestors
	ANTH 1140G	Introduction to Cultural Anthropology
	ANTH 1160G	World Archaeology
	ANTH 2140G	Indigenous Peoples of North America
	CEPY 1120G CJUS 1110G	Human Growth and Behavior Introduction to Criminal Justice
	ECON 1110G	Survey of Economics
	ECON 1110G	Macroeconomic Principles
	ECON 2110H	Principles of Macroeconomics Honors
	ECON 2120G	Microeconomics Principles
	ECON 2120H	Principles of Microeconomics Honors
	GEOG 1120G	World Regional Geography
	GEOG 1130G	Human Geography
	GNDR 2110G	Introduction to Women, Gender, and Sexuality
		Ctudios

Studies

32-35

GNDR 2120G	Representing Women Across Cultures
HNRS 2161G	Window of Humanity
HNRS 2170G	The Human Mind
HNRS 2172G	Archaeology: Search for the Past
HNRS 2174G	American Politics in a Changing World
HNRS 2180G	Citizen and State Great Political Issues
JOUR 105G	Media and Society
LING 2110G	Introduction to the Study of Language and Linguistics
PHLS 1110G	Personal Health & Wellness
POLS 1110G	Introduction to Political Science
POLS 1120G	American National Government
POLS 1130G	Issues in American Politics
POLS 2120G	International Relations
PSYC 1110G	Introduction to Psychology
SOCI 1110G	Introduction to Sociology
SOCI 2310G	Contemporary Social Problems
SOWK 2110G	Introduction to Human Services & Social Work
Area V: Humanities	
ENGL 1410G	Introduction to Literature
ENGL 2310G	Introduction to Creative Writing
ENGL 2520G	Film as Literature
ENGL 2650G	World Literature I
HIST 1105G	Making History
HIST 1110G	United States History I
HIST 1120G	United States History II
HIST 1130G	World History I
HIST 1140G	World History II
HIST 1150G	Western Civilization I
HIST 1160G	Western Civilization II
HIST 2245G	Islamic Civilizations to 1800
HIST 2246G	Islamic Civilizations since 1800
HIST 2250G	East Asia to 1600
HIST 2251G	East Asia since 1600
HNRS 2110G	The Present in the Past: Contemporary Issues and their Historical Roots
HNRS 2117G	The World of the Renaissance: Discovering the Modern
HNRS 2120G	Foundations of Western Culture
HNRS 2140G	Plato and the Discovery of Philosophy
HNRS 2141G	Bamboo and Silk: The Fabric of Chinese Literature
HNRS 2145G	Celtic Literature
HNRS 2160G	New Testament as Literature
HNRS 2171G	The Worlds of Arthur
HNRS 2173G	Middle Ages
HNRS 2185G	Democracies, Despots and Daily Life
HNRS 2190G	Claiming a Multiracial Past
PHIL 1115G	Introduction to Philosophy
PHIL 1120G	Logic, Reasoning, & Critical Thinking
PHIL 1140G	Quest for God
PHIL 1145G	Philosophy, Law, and Ethics
PHIL 1155G	Philosophy of Music
PHIL 2110G	Introduction to Ethics
PHIL 2230G	Philosophical Thought
Area VI: Creative and	
ARTH 1115G	Orientation in Art

ARTS 1145G	Visual Concepts	
ARTH 2110G	History of Art I	
ARTH 2120G	History of Art II	
DANC 1110G	Dance Appreciation	
HNRS 2114G	Music in Time and Space	
HNRS 2115G	Encounters with Art	
HNRS 2130G	Shakespeare on Film	
HNRS 2178G	Theatre: Beginnings to Broadway	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
THEA 1210G	Acting for Non-Majors	
eneral Education Elec	ctive	3-4
•		
	ARTH 2110G ARTH 2120G DANC 1110G HNRS 2114G HNRS 2115G HNRS 2130G HNRS 2178G MUSC 1110G MUSC 1110G THEA 1110G THEA 1210G eneral Education Electory	ARTH 2110G History of Art I  ARTH 2120G History of Art II  DANC 1110G Dance Appreciation  HNRS 2114G Music in Time and Space  HNRS 2115G Encounters with Art  HNRS 2130G Shakespeare on Film  HNRS 2178G Theatre: Beginnings to Broadway  MUSC 1110G Music Appreciation: Jazz  MUSC 1130G Music Appreciation: Western Music  THEA 1110G Introduction to Theatre

ENGR 100G Introduction to Engineering
or ENGR 100GH Introduction to Engineering Honors

For Area III: Laboratory Sciences and Area IV: Social/Behavioral Sciences, students *must* take one course from each for a total of 7 credits.

Students will then take an additional course in either Area III or Area IV for 3-4 credits depending on the students selection (i.e. Area III is 4 credits, Area IV is 3 credits).

## **Alternatives for Meeting General Education Requirements**

Students taking nine or more credits in a specific subject area, even though the courses are not designated as General Education courses, will have met the general education requirements for that subject area. For example, a student may complete ARTS 2610 Drawing II, ARTS 1240 Design I and ARTS 1250 Design II (9 hours) and thereby satisfy one course from the Area VI: Creative and Fine Arts category, even though none of those courses carries a G suffix. Please check with the Center for Academic Advising and Student Support.

# **Applied Associate Degree**

exceeds the minimum requirement.

**Total Credits** 

# The New Mexico General Education Requirements

General Education at NMSU provides all students with a broad foundation and common framework upon which to develop knowledge and skills, social consciousness and respect for self and others, thus enabling them to function responsibly and effectively now and in the future. General education courses at NMSU can be identified by the G suffix.

In accordance to state law (<u>Post-Secondary Education Articulation Act</u>), the New Mexico Higher Education Department has established a statewide model for General Education. Within the General Education model, is nine credits of electives that will be determined at an institutional level. The current approved NMSU General Education courses are listed below under each of the six general education areas.

Prefix Title Credits
Select one course from four of the following six content areas for a total of 12-14 credits

Each course selected must be from a different area and students cannot take multiple courses in the same area.

Area I: Communications

AXED 2120G	Effective Leadership and Communication in Agriculture
COMM 1115G	Introduction to Communication
COMM 1130G	Public Speaking
ENGL 1110G	Composition I
ENGL 1110H	Composition I Honors
ENGL 1110M	Composition I Multilingual
ENGL 2210G	Professional & Technical Communication
ENGL 2210H	Professional and Technical Communication Honors
ENGL 2221G	Writing in the Humanities and Social Science
HNRS 2175G	Introduction to Communications Honors
Area II: Mathematics	
MATH 1130G	Survey of Mathematics
MATH 1220G	College Algebra
MATH 1250G	Trigonometry & Pre-Calculus
MATH 1350G	Introduction to Statistics
MATH 1430G	Applications of Calculus I
MATH 1511G	Calculus and Analytic Geometry I
MATH 1521G	Calculus and Analytic Geometry II
MATH 1521H	Calculus and Analytic Geometry II Honors
MATH 2134G	Fundamentals of Elementary Math II
MATH 2350G	Statistical Methods
MATH 2530G	Calculus III
Area III: Laboratory Sci	ences
AGRO 1110G/	Introduction to Plant Science (Lecture & Lab)
HORT 1115G ANTH 1135G	Introduction to Biological Anthropology
& ANTH 1135L	and Introduction to Biological Anthropology  Lab
ASTR 1115G	Introduction Astro (lec+lab)
ASTR 1120G	The Planets
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory
BIOL 1130G	Introductory Anatomy & Physiology (non- majors)
BIOL 1190G	Contemporary Problems in Biology
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and
DIOL OCTOO	Molecular Biology Laboratory
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory
C S 171G	Introduction to Computer Science
CHEM 1120G	Introduction to Chemistry Lecture and
CHEM 1215G	Laboratory (non majors)  General Chemistry I Lecture and Laboratory for STEM Majors
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors
ENVS 1110G	Environmental Science I
FSTE 1110G	Introduction to Food Science and Technology
FSTE 2110G	Food Science I
GEOG 1110G	Physical Geography
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	GEOL 1110G	Physical Geology			
	HNRS 2116G	Earth, Time and Life			
	PHYS 1115G	Survey of Physics with Lab			
	PHYS 1125G	Physics of Music			
	PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab			
	PHYS 1240G	Algebra-Based Physics II			
	& PHYS 1240L	and Algebra-Based Physics II Lab			
	PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab			
	PHYS 1320G	Calculus -Based Physics II			
	& PHYS 1320L	and Calculus -Based Physics II Lab			
	PHYS 2230G	General Physics for Life Science I			
	& PHYS 2230L	and Laboratory to General Physics for Life Science I			
	PHYS 2240G & PHYS 2240L	General Physics for Life Science II and Laboratory to General Physics for Life Science II			
Are	ea IV: Social/Behavior	al Sciences			
	AEEC/FSTE 2130G	Survey of Food and Agricultural Issues			
	ANTH 1115G	Introduction to Anthropology			
	ANTH 1137G	Human Ancestors			
	ANTH 1140G	Introduction to Cultural Anthropology			
	ANTH 1160G	World Archaeology			
	ANTH 2140G	Indigenous Peoples of North America			
	CEPY 1120G	Human Growth and Behavior			
	CJUS 1110G	Introduction to Criminal Justice			
	ECON 1110G	Survey of Economics			
	ECON 2110G	Macroeconomic Principles			
	ECON 2110H	Principles of Macroeconomics Honors			
	ECON 2120G	Microeconomics Principles			
	ECON 2120H	Principles of Microeconomics Honors			
	GEOG 1120G	World Regional Geography			
	GEOG 1130G	Human Geography			
	GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies			
	GNDR 2120G	Representing Women Across Cultures			
	HNRS 2161G	Window of Humanity			
	HNRS 2170G	The Human Mind			
	HNRS 2172G	Archaeology: Search for the Past			
	HNRS 2174G	American Politics in a Changing World			
	HNRS 2180G	Citizen and State Great Political Issues			
	JOUR 105G	Media and Society			
	LING 2110G	Introduction to the Study of Language and Linguistics			
	PHLS 1110G	Personal Health & Wellness			
	POLS 1110G	Introduction to Political Science			
	POLS 1120G	American National Government			
	POLS 1130G	Issues in American Politics			
	POLS 2120G	International Relations			
	PSYC 1110G	Introduction to Psychology			
	SOCI 1110G	Introduction to Sociology			
	SOCI 2310G	Contemporary Social Problems			
	SOWK 2110G	Introduction to Human Services & Social Work			
Area V: Humanities					
	ENGL 1410G	Introduction to Literature			
	ENGL 2310G	Introduction to Creative Writing			
	ENGL 2520G	Film as Literature			

To	tal Credits		15-18
_		Introduction to Engineering Honors	
	ENGR 100G	Introduction to Engineering	
	or	Inter-dentities to Facilities."	
	excluding any cross	slisted courses.	
		an be met with any 'G' course in any area,	
Ge	neral Education Elec	tive	3-4
	THEA 1210G	Acting for Non-Majors	
	THEA 1110G	Introduction to Theatre	
	MUSC 1130G	Music Appreciation: Western Music	
	MUSC 1110G	Music Appreciation: Jazz	
	HNRS 2178G	Theatre: Beginnings to Broadway	
	HNRS 2130G	Shakespeare on Film	
	HNRS 2115G	Encounters with Art	
	HNRS 2114G	Music in Time and Space	
	DANC 1110G	Dance Appreciation	
	ARTH 2120G	History of Art II	
	ARTH 2110G	History of Art I	
	ARTS 1145G	Visual Concepts	
, 11 (	ARTH 1115G	Orientation in Art	
Δr	ea VI: Creative and Fir	· -	
	PHIL 2230G	Philosophical Thought	
	PHIL 1155G PHIL 2110G	Introduction to Ethics	
	PHIL 1145G	Philosophy of Music	
	PHIL 1140G PHIL 1145G	Philosophy, Law, and Ethics	
	PHIL 1120G PHIL 1140G	Logic, Reasoning, & Critical Thinking  Ouest for God	
	PHIL 1115G PHIL 1120G	Introduction to Philosophy	
	HNRS 2190G PHIL 1115G	Claiming a Multiracial Past	
	HNRS 2185G	Democracies, Despots and Daily Life	
	HNRS 2173G	Middle Ages	
	HNRS 2171G	The Worlds of Arthur	
	HNRS 2160G	New Testament as Literature	
	HNRS 2145G	Celtic Literature	
	LINDO 01 450	Literature	
	HNRS 2141G	Bamboo and Silk: The Fabric of Chinese	
	HNRS 2120G	Plato and the Discovery of Philosophy	
	HNRS 2120G	Modern Foundations of Western Culture	
	HNRS 2117G	The World of the Renaissance: Discovering the	
	HNRS 2110G	The Present in the Past: Contemporary Issues and their Historical Roots	
	HIST 2251G	East Asia since 1600	
	HIST 2250G	East Asia to 1600	
	HIST 2246G	Islamic Civilizations since 1800	
	HIST 2245G	Islamic Civilizations to 1800	
	HIST 1160G	Western Civilization II	
	HIST 1150G	Western Civilization I	
	HIST 1140G	World History II	
	HIST 1130G	World History I	
	HIST 1120G	United States History II	
	HIST 1110G	United States History I	
	HIST 1105G	Making History	
	ENGL 2650G	World Literature I	

# **Alternatives for Meeting General Education Requirements**

Students taking nine or more credits in a specific subject area, even though the courses are not designated as General Education courses,

will have met the general education requirements for that subject area. For example, a student may complete ARTS 2610 Drawing II, ARTS 1240 Design I and ARTS 1250 Design II (9 hours) and thereby satisfy one course from the Area VI: Creative and Fine Arts category, even though none of those courses carries a G suffix. Please check with the Center for Academic Advising and Student Support.

# **Graduation Requirements**

# **Certificate of Achievement**

The Certificate of Achievement is a program of study less than 16 credits and is not eligible for Federal financial aid. This Certificate provides employment related and/or career enhancing skills necessary to succeed in a job or a chosen field of study. These courses can be a subset of those required for a corresponding Certificate of Completion or Applied Associates Degree. These certificates are recorded on the student's transcript. The following requirements apply to all certificates of achievements:

- Minimum Credit Hours: The number of credit hours varies from certificate to certificate but must be fewer than 16 credits. Students must successfully complete the total number of credit hours as outlined in the respective catalogs and sections describing these certificates
- GPA requirement: Students must successfully complete all
  courses for the certificate as outlined in the catalog and and have
  a cumulative GPA of 2.0 or greater in all courses required for the
  certificate, but may have a cumulative GPA of less than 2.0 for
  courses taken outside of the certificate.
- 3. Residency: A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

# **Certificate of Completion**

The Certificate of Completion requires a minimum of 16 credits (other Title IV requirements must be met to be eligible for financial aid) and has been approved through the academic review process. These courses can be a subset of those required for a corresponding Applied Associates Degree. These certificates are recorded on the student's transcript.

Requirements for certificates are found in the respective catalogs and sections concerning these programs. The following requirements apply to all certificates.

- Minimum Credit Hours: The number of credit hours varies from certificate to certificate. Students must successfully complete the total number of credit hours as outlined in the respective catalogs and sections describing these certificates.
- GPA requirement: Students must successfully complete all courses for the certificate as outlined in the catalog. In addition, students must have a cumulative GPA of 2.0 or better in all courses taken at NMSU or one of its community colleges.
- 3. Residency: A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

# Associate's Degree

Associate's degrees are of two types. The academic associate's degree prepares students to transfer to a baccalaureate program and generally includes credits toward the first two years of a four-year degree. Academic associate's degrees include the Associate of Arts, the Associate of Science, and other named degrees that link to a specific major (the Associate of Education, for example). Other associate degrees, typically called Associate of Applied Science, prepare students for entry into the workforce. Credits for these programs may or may not apply toward a four-year degree. Associate degree seeking students who are interested in a dual degree should consult with their academic advisor. The Associate of Arts and the Associate of Science degrees cannot be earned together. The Associate degrees.

Students interested in transferring to NMSU or another four-year institution should check the appropriate sections of the university catalog for more information.

Requirements for the two-year associate degrees are found in the respective catalogs and sections concerning these degrees. The following requirements apply to all associates degrees:

- Minimum Credit Hours: a minimum of 60 credits (excluding "N" suffix courses). Some programs of study require coursework in excess of the 60 credit-hour minimum.
- New Mexico General Education state mandated general education courses (as specified in General Education section); such course are designed with a "G"
  - a. For Associates Degrees: 32-35 credits
  - b. For Applied Associates Degrees: 15-18 credits
- GPA requirement: Students must have a cumulative GPA of 2.0 or better in all courses taken at NMSU or one of its community colleges. In addition, students must earn a C- or better in classes they take to meet the Basic Skills requirement (ENGL 1110G and one of several math course options),
- Residency A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.
- Major: All requirements for at least one major field of study as specified in the college and departmental sections of the respective catalog.

### **Associate Major**

An associate major, consisting of at least 18 credits, may include courses from more than one department. Requirements for the Associate Majors are specified in the respective Community College Catalogs.

## **Graduate Outcomes**

Upon graduation, students of NMSU Carlsbad will be able to satisfactorily demonstrate:

- Effective communication skills in reading, writing, listening, and speaking.
- Basic critical thinking skills including problem identification, evidence acquisition, evidence evaluation, and reasoning/conclusion.
- · An understanding of personal and social responsibility.
- An ability to apply the fundamental concepts of quantitative reasoning in mathematics and science.

- Appropriate information and digital literacy, and skills for personal and professional use.
- An understanding of the fundamental concepts for analyzing significant primary texts and/or works of art, including fine arts, literature, music, theater and film.

## **ETS Proficiency Profile Exit Test Requirement**

To evaluate its graduate outcomes, NMSU Carlsbad has chosen the ETS Proficiency Profile. This exam measures students' proficiency in reading, writing, mathematics, science and critical thinking. All students who are graduating with an associate degree should take this exam within the last two semesters of their program. Some courses have incorporated this exam into the required coursework. Students will be given information about the exam site and date at the time that they apply for graduation.

# **International Students**

The general policies of the university as outlined in this catalog apply to international as well as domestic students. However, some special policies are required by federal laws applicable only to international students.

An international student is any individual attending NMSU while present in the United States on a non-immigrant student visa. Legal immigrants or refugees must present documentation of their status either to University Admissions or to the International Student & Scholar Services (ISSS) Office.

# **U.S. Citizenship and Immigration Services (USCIS)**

The United States Department of Homeland Security has established rules for students in non-immigrant status, such as those with F-1 or J-1 visa types. Some of these rules include:

- 1. Each student must maintain full-time student status for both the fall and spring semesters.
- International students may not work off campus without authorization. On-campus employment may be authorized under certain conditions.
- All international students must maintain an up-to-date record in the ISSS Office. This record must indicate the student's current living address and local phone number.
- Prior to admission, a prospective international student must demonstrate the following:
- 5. Academic ability to succeed in the chosen course of study
- 6. Adequate financial support to complete the chosen course of study
- 7. Adequate command of the English language to maintain legal status as a full-time student for the fall and spring semesters.

# University Procedures for International Students Regular Undergraduate Admission and English Requirements

After regular and full admission to an NMSU degree program, each international undergraduate student is administered an English Language Proficiency Test (ELPT). Based on the results, the student is either assigned to ENGL 1105M Intermediate ESL Composition and Grammar Review (a bridge course designed to ensure success in ENGL 1110M Composition I Multilingual), or allowed to enroll directly into ENGL 1110G Composition I. International students excused from ENGL 1105M Intermediate ESL Composition and Grammar Review will be required to take ENGL 1110G Composition I, including students whose native language is English. The student may then be required to complete one or more regular English classes as required for a particular degree.

Completion of basic English courses at other U.S. institutions does not automatically satisfy this requirement. Equivalencies for ENGL 1105M Intermediate ESL Composition and Grammar Review is determined by CELP, and equivalencies for ENGL 1110M Composition I Multilingual and ENGL 1110G Composition I are determined by the English department.

Students who fail to achieve an adequate score on the ELPT may be denied admission into their program of study and will not be allowed to continue their study in a degree program at New Mexico State University. The Center for English Language Programs (CELP) and the English Department reserve the right to require additional testing for any student completing the ELPT for verification of language proficiency. Students required to complete additional testing will be handled on a case-by-case basis. All additional testing will be completed via Institutional TOEFL (pBT).

# **English Language Proficiency**

NMSU requires a score of 520 paper-based or 68 internet-based or better on the Test of English as a Foreign Language (TOEFL), or a score of 6.0 on the International English Language Testing System (IELTS), for all international students, both nondegree and degree seeking. International students may also demonstrate English proficiency by satisfactorily completing NMSU's Center for English Language Programs (CELP). A waiver of the TOEFL requirement may be considered for

- 1. Students who are native speakers of English.
- 2. Students completing high school in the United States who
  - a. have attended the high school for at least two full semesters and
  - b. have scored in at least the 75th percentile in English on the ACT.
- Students transferring from a junior college, or university in the United States who have earned a minimum of 30 acceptable semester credits (45 acceptable quarter credits) with a GPA of 2.0 or better (acceptable credit means classes that require a high proficiency in both written and oral English).
- Students demonstrating English-language proficiency using methods accepted by the Undergraduate Admissions Office.
- Students enrolling in certain programs where English language proficiency is not required.
- 6. Students completing coursework in CELP. Satisfactory completion requires a final grade of no less than 70% in all courses. Visit <a href="http://celp.nmsu.edu/">http://celp.nmsu.edu/</a> for full details.

The university reserves the right to require any prospective international student to meet the TOEFL requirement.

## **Conditional CELP Admission and English Requirements**

NMSU, via CELP, conducts an Intensive English Language Program (IELP) for undergraduate and graduate students prior to pursuing their degree programs at NMSU. Subject to all other admission requirements, international students in this program are admitted to the university for the sole purpose of studying English, with a guarantee of full admission to the university upon completion of the CELP program. Only undergraduate students who are conditionally admitted and complete the full sequence of IELP courses will be admitted directly into ENGL 1110M Composition I Multilingual. Placing out of levels by retaking the TOEFL is not allowable once conditional admission status has been granted. Visit <a href="http://celp.nmsu.edu/">http://celp.nmsu.edu/</a> for full details.

#### **Financial Support**

No financial aid is available from NMSU for international students. The university reserves the right to require advance deposit of funds for any period deemed reasonable prior to granting admission. An international

student can never qualify for residency and must pay nonresident fees. Each prospective international student must submit a current financial support document with his/her application. This document must show that:

- 1. The person providing the financial support has the necessary funds.
- 2. The funds can be transferred from the student's home country to the United States.

#### **Admission Restrictions**

International student admission may be prohibited based on one of the following conditions:

- The dean of a chosen college and the department head of a chosen major or the President of a Community College campus may refuse to grant admission.
- There may be a disproportionate number of international students or a disproportionate number of a particular nationality in one department, college or community college.
- 3. Academic advisors may not be available.
- International students may be nondegree if admitted as exchange students, or as part of a special program, or as holders of visas that allow incidental studies related to their current non-immigrant status. (e.g., J-2 or H-1B).
- Non-native speakers of English are not normally admitted, or allowed to begin studies, in the summer sessions. There are some exceptions such as students admitted to NMSU's Center for English Language Programs (CELP).
- University Community College campuses reserve the right to refuse admission to international students if the necessary immigration and English-language support services are not available.

All application material, including the application for admission, letters of recommendation, transcripts or national examination scores and/or transcripts from colleges or universities (with an English translation), test scores including the TOEFL or IELTS, should be sent to the University Admissions Office by the following recommended dates. Proof of adequate financial support should be sent directly to International Student & Scholar Services.

March 1<sup>1</sup> for fall semester

October 1<sup>1</sup> for spring semester

Contact the academic department for specific deadlines. Contact the Office of Study Abroad for exchange program admission deadlines.

# **Miscellaneous Regulations**

- 1. All international students are required to have coverage at the Student Health Center except when the Las Cruces campus Student Health Center is not available to them.
- 2. All international students are required to purchase health insurance at the Student Health Center. Exceptions for alternate health insurance plans must be pre-approved by the ISSS Office. Students without insurance will not be allowed to register.
- 3. New international students are not permitted to register until all ISSS requirements are met, including attending orientation and taking the English Language Placement Test. All international students, are therefore, required to report to the office to which they were admitted. The following are the offices that a student may need to report to:

- Las Cruces campus: International Student & Scholar Services, Garcia Annex, room 246 (exchange students need to report to the Office of Study Abroad)
- Doña Ana Community College: International Student & Scholar Services, Garcia Annex, room 246 (exchange students need to report to the Office of Study Abroad)
- Alamogordo Community College: Office of Student Services, Student Services Building, second floor
- Carlsbad Community College: Office of Student Services, 1500 University Drive, Room 111
- Grants Community College: Office of Student Services, Walter Martinez Building, Main Office Complex
- 4. Undergraduate students are required to carry at least 12 credits per semester. Students in non-degree exchange J-1 visa status must be engaged full time in a prescribed course of study as determined by the NMSU Responsible or Alternate Responsible Officer (RO/ARO).

# Military and Veterans Programs (MVP)

NMSU is a veteran and military friendly university which strives to provide the best possible service to our current and former service members as they pursue their educational goals. NMSU Military and Veterans Programs promotes lifelong learning and professional development for veterans, active-duty military and their families, assisting them in their higher education goals by offering:

- Affordable, in-state tuition rates for active-duty military personnel and dependents living at a regional military installations
- Affordable, in-state tuition rates for veterans receiving U.S. Department of Veterans Affairs education benefits
- Easily transferable credits that count toward degrees at NMSU Carlsbad
- Facilitation of all Department of Defense Tuition Assistance (TA)
   Benefits
- Courses taught online and at locations on and near regional military installations
- · Innovative technology and course delivery methods
- · Internships for veterans
- · Student advocacy at every level, from admissions to graduation
- Resource materials from a variety of veteran and military service organizations
- · Priority registration for all military and veteran students
- Veterans on Campus Training by Kognito, training faculty and staff on our student veterans and the unique value they bring to campus
- Salute Honor Society for student veterans
- · Connect with student organizations
- · A tradition of quality education.

NMSU degree programs are approved by the State Approving Agency Director at the New Mexico Higher Education Department. Eligible students may receive education benefits from the U.S. Department of Veterans' Affairs. For further information, contact the Military and Veterans Program by contacting the Carlsbad Student Services Office.

## **Costs**

#### **Active-Duty**

Active-duty military personnel (Armed Forces), stationed in New Mexico or at Fort Bliss, Texas may complete a Resident Tuition Application for Active Duty Military waiver to qualify for in-state tuition. Spouses and minor children of active duty personnel who are stationed in New Mexico and Fort Bliss, Texas who are not otherwise entitled to claim in-state residency, may apply for in-state tuition by submitting a Resident Tuition Application for Active-Duty Military waiver to the Military and Veterans Programs office. Applications are available through the University Student Records Office, online at <a href="http://mvp.nmsu.edu">http://mvp.nmsu.edu</a> or by contacting the Carlsbad Student Services Office.

# **Dependents Receiving VA Educational Benefits**

Per NM 2015 HB 427:

A spouse or child of a veteran of the armed forces is entitled to pay tuition and fees at the rate provided for New Mexico residents; provided that the spouse or child is eligible for benefits pursuant to the federal Post-9/11 Veterans Educational Assistance Act of 2008 or any other federal law authorizing educational benefits for a veteran and the dependents of a veteran. Applications are available by contacting the Carlsbad Student Services Office.

#### **Veterans**

Veterans receiving U.S. Department of Veterans Affairs education benefits are eligible for in-state tuition through the Veterans In-State Tuition Act by submitting a Non-Residency Tuition Application for Veterans of the U.S. Armed Forces waiver. For further information concerning approved programs and application process, eligible persons should contact the Carlsbad Student Services Office.

Veteran students enrolled under the following programs are responsible for their tuition and fees in the same manner as a non-veteran student.

- Montgomery GI Bill<sup>®</sup> Active Duty (CH30)
- · Dependents (CH35)
- Montgomery GI Bill<sup>®</sup> Selected Reserve (CH1606)
- Reserve Educational Assistance Program (REAP) Tuition and fees
  of students enrolled under the Vocational Rehabilitation Program
  (CH31) will be paid by the U.S. Department of Veterans Affairs under
  contract with the university.

#### Regulations

Note: These regulations apply to all campuses of NMSU and are effective with the publication of this catalog. Tuition amounts, fees and similar items subject to annual review and change are all effective with the current catalog.

The Veterans' Administration (VA) has approved NMSU Carlsbad courses for study by veterans and others who qualify for veteran's educational assistance. Processing of applications and certifications takes from 4 to 6 weeks and should, therefore, be initiated well in advance of course registration. Veterans must bring their course schedule to the NMSU Carlsbad Student Services Office each semester for continued certification. The Veterans' Administration toll free number is 1(888) 442-4551.

Veterans must maintain satisfactory attendance, conduct and progress. If the veteran does not meet the standards set by NMSU Carlsbad, the certifying official must notify the VA, at which time the VA will discontinue benefits.

If the university has liability claims filed against it as a result of a veteran failing to meet compliance requirements of the VA, the university will not release any academic records on the veterans until such time as the veteran has reimbursed the federal government for funds drawn in violation of those requirements.

## **Credit for Military Service**

New Mexico State University will award academic credit to United States military personnel for courses and Military Occupational Specialties (MOS), based on the American Council of Education Guide (ACE) as well as through national standardized tests, such as CLEP, AP, PEP and DANTES. Credit for military-training is in accordance with NMSU Faculty Senate Legislation Proposition 24-07/08, which was passed in May 2008. Military Training and Military Occupational Specialties (MOS) must have a recommendation evaluation by ACE (in the ACE Guide) for credit to be awarded. Courses accepted for transfer credit become part of the student's official NMSU transcript and academic record. If a student wishes to appeal a decision regarding the acceptance of military training/education and/or MOS for academic credit, the student must submit a written statement of appeal to the CAO/Provost. The CAO/Provost will review the merits of the appeal and render a decision. The decision of the CAO/Provost is final.

Only Primary MOS(s) are eligible for academic credit in the initial review and evaluation. Credit for Duty and/or Secondary MOS may be eligible for academic credit if the student petitions the CAO/Provost. Primary MOS is the primary specialty of a soldier and reflects the broadest and most in-depth scope of military experience. Veterans, active-duty personnel, National Guard and Reservists who are current students or students applying for admission to New Mexico State University may be granted academic credit on a case-by-case basis upon evaluation of military transcripts – the Joint Service Transcript (jst.doded.mil) and the Community College of the Air Force transcripts. Course equivalencies and credit hours awarded for a particular NMSU degree are determined by college and/or academic departments. Credit hours may be awarded for specific courses toward degree requirement or as elective credit. The number of credit hours awarded will be determined by the college and/or academic department.

NOTE: Students submitting military transcripts for credit evaluation must keep in mind the Maximum Time Frame policy. See Financial Aid Section.

#### **Tuition Assistance**

Tuition Assistance (TA) is a benefit paid to eligible active duty members of the Air Force, Army, Coast Guard, Marines and Navy. The Department of Defense (DoD) has given each service the ability to pay up to \$250 per semester credit hour of the actual cost of tuition (no fees) during the fiscal year (Oct. 1 - Sept. 30). TA will pay for up to 13- semester hours of a bachelor's degree and up to 39 semester hours of a master's degree. TA must be requested and approved prior to the start date of the course.

Service members must first be admitted to NMSU before they may enroll in any classes at NMSU.

Please be aware of our admission and registration process:

- 1. Service members must apply online to be admitted,
- 2. login to my.NMSU.edu to register for classes, and
- create an account and Request TA through their service online portal.
   Each service has its own criteria for eligibility, application process and restrictions. Refer to our website for service login information: <a href="http://mvp.nmsu.edu/tuition-assistance">http://mvp.nmsu.edu/tuition-assistance</a>

It is important to request TA for the same class and section number as enrolled in NMSU for tuition and grading purposes. Only enrollments requested and approved through their service online portal will be eligible for TA. Refer to our website for further information at <a href="http://mvp.nmsu.edu/tuition-assistance">http://mvp.nmsu.edu/tuition-assistance</a> or contact the Military Programs Coordinator for assistance at <a href="mvp@nmsu.edu">mvp@nmsu.edu</a> or (575) 646-4524.

## **Military/Veteran Graduate Student Status**

Veteran benefits are determined by the number of graded graduate credits of enrollment for a given semester or summer session. Listed below are the credit hours that determine student status for military veterans.

Fall and Spring semester. full-time enrollment includes 9 or more graded credit hours. Students are considered three-fourths time if they are enrolled in 7 to 8 credit hours. Half time enrollment is 5 hours. Veterans enrolled in less than 5 credit hours are reimbursed for tuition and allowable fees only.

There are several sessions within the summer term. For the 10 week summer session, full-time enrollment is 6 credit hours and half time enrollment is 3 credit hours. During the five week sessions, full-time enrollment is 4 graded credit hours.

## **Military Withdrawal**

The following steps must be taken by all New Mexico State University students called up for active duty who wish to withdraw from their classes:

- Military and Veterans Programs: VA student ordered to Active Duty
  must provide a copy of orders to the Carlsbad Office of Student
  Services. To assist in reporting accurate information to the VA
  Regional Office, student should also provide, in writing, the last day of
  class attendance.
- Carlsbad Office of Student Services: All students presenting their orders to the Carlsbad Office of Student Services will receive a military withdrawal from classes and a full tuition and fees refund for that semester.
- Bookstore: Students who still have their receipts for textbooks purchased the semester in which they are called to active duty will be given a full refund for these textbook purchases when they present their orders.

#### **Veterans' Attendance and Satisfactory Progress**

The U.S. Department of Veterans Affairs requires all veterans receiving VA education benefits to make satisfactory progress and systematic advancement toward an educational objective or be liable for overpayments. Satisfactory progress and regular class attendance are expected of such students.

If a veteran receiving benefits is suspended for academic reasons, benefits are terminated and will be restored only after readmission to NMSU.

If the university has liability claims filed against it as a result of a veteran failing to meet compliance requirements of the U.S. Department of Veterans Affairs, the university will not release any academic records on the veteran until such time as the veteran has reimbursed the federal government for funds drawn in violation of those requirements.

A student receiving VA education benefits who is pursuing a degree program offered by New Mexico State University should adhere to the curriculum of that program. Failure to do so will result in the student

being certified for less than full-time status or becoming liable for an over-payment.

## **Resources for Students**

# **Responsibility of Veteran Students**

Students must be pursuing a degree in a specific program to be eligible for benefits. Admission procedures for veterans and other eligible persons are the same as for all students. Academic advisors must submit degree plans to the Carlsbad Office of Student Services prior to certification. For continued certification, students must submit a Concise Student Schedule to the Carlsbad Office of Student Services every semester.

Veterans must notify the Carlsbad Office of Student Services when any of the following occurs:

- · Dropping or adding course(s)
- · Withdrawing from course(s)
- · Discontinuing regular class attendance
- · Changing programs (academic majors)

VA education benefits are payable for regular attendance in courses that are part of the veteran's program (major) curriculum. VA educational benefits are not payable for.

- · Classes not attended regularly
- · Repeating a course for which a passing grade was received
- Classes for which credit is received through successful completion of a proficiency test or grade by examination
- · Classes taken on an audit basis
- · Classes that are dropped or withdrawn from
- · Classes that are not part of the veteran's program (major) curriculum

GI Bill<sup>®</sup> is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at <a href="https://www.benefits.va.gov/gibill">www.benefits.va.gov/gibill</a>.

# Recognition of Academic Achievement

Degrees and Certificates earned are recorded on the student's academic record.

#### **Attendance at Commencement**

The Vice President for Student Services "VPSS" will confirm eligibility to participate in commencement exercises held at the close of the spring semester. Eligible candidates (registered for final degree requirements, as certified by the VPSS) and degree recipients from the previous summer and fall sessions will participate in the spring ceremony.

Commencement is a symbolic ceremony. Participation in commencement does not, in itself, mean that a student is considered a NMSU graduate. In order to be awarded a degree, a student must fulfill university requirements as determined by academic colleges. The degree will reflect the graduation date from the application for degree in which all degree requirements were determined by the academic colleges.

## **Applying for One-Year Certificate or Two-Year Associate Degree**

Eligible students are required to submit an application for a certificate or associate degree by the deadline and pay applicable fees as published in the Schedule of Classes for the semester. The certificate application

forms are available in the Student Services Office and information regarding the online degree application process is available at <a href="http://registrar.nmsu.edu/registrar-services-online/">http://registrar.nmsu.edu/registrar-services-online/</a>. It is recommended that students print a certificate or degree audit through their <a href="may.nmsu.edu">my.nmsu.edu</a> account and have it reviewed by an academic advisor in Counseling and Student Development Center at least one semester prior to registration for their last semester and also give a copy of the audit to Student Services Office staff for the student file. If certificate or degree requirements are not completed during the semester for which the student applied, the student must reapply and pay applicable fees.

The earliest catalog you may select is the catalog in effect the first semester you attended college, or any subsequent catalog, provided it is not more than six years old when requirements are met.

# **Recognition of Academic Achievement**

NMSU has a number of university-wide programs that recognize academic achievement. These include the Honors College, the Crimson Scholars Program, the dean's report of academic achievement and graduation with honors. In addition, many colleges and departments have their own programs and awards that recognize the academic achievement of their students.

## **Crimson Scholar Programs**

Crimson Scholars is a recognition program for academically superior students. You do not need to apply to be Crimson Scholar. At the beginning of each semester that you qualify as a Crimson Scholar, you will receive an email message confirming your status. Crimson Scholars receive a number of benefits, including:

#### Privileges

- · You become automatically eligible for all Honors classes;
- · Early Registration allows you to have the first choice of classes;
- Library Privileges include being able to check books out for an extended period;
- You may have the opportunity for independent study, research projects and other meaningful work, guided by NMSU faculty;
- Eligible Crimson Scholars receive a lapel pin (Crimson Status for 24 credits), recognition on the commencement program (Crimson Scholar status for 75 credits) and notation on their transcript as a Crimson Scholar Graduate (Crimson Scholar status for 90 credits).

## Qualifications

- Degree seeking undergraduates, enrolled for three or more credits per semester at NMSU (main campus or one of the branch campuses);
- New Freshman (27 credits or less) with an ACT composite score of 26 or better (or an equivalent SAT score), or an ACT score of 24-25 (or an equivalent SAT score) and a 3.75 or higher High School GPA are eligible. These students must maintain a 3.5 minimum cumulative GPA to continue in the program;
- Transfer Students must have a 3.5 minimum cumulative GPA at their previous institution(s) to be eligible and must maintain a 3.5 cumulative GPA to continue in the program;
- Sophomores, Juniors and Seniors must have a 3.5 minimum cumulative GPA to continue in the program;
- Currently enrolled Crimson Scholars whose cumulative GPA drops below the required 3.5 will be dropped from the program. If the student's cumulative GPA again meets minimum requirements the following semester, the student will automatically be reinstated.

## **Dean's Report of Academic Achievement**

Following the close of the semester, the Carlsbad Office of Student Services publishes a list of students who have achieved honor standing in grades for the previous semester. To be eligible, a student must have been enrolled in 12 or more semester credits with a computable grade in each. The top 15 percent of eligible students by college for that semester will be named to the Dean's Honor list.

#### **Graduation with Honors**

To be eligible for a four-year degree with honors, a student must have earned at least 60 semester credits in computable grades while in residence at New Mexico State. The number of students at graduation receiving degrees with honors in any one year shall not exceed 15 percent. To receive high honors, a student must be in the top 1.5 percent of the graduating class by college. One person from each college will receive highest honors. In case of a tie, the student with the greatest numbers of credits earned at NMSU with computable grades will be awarded highest honors for each college. Of the students receiving highest honors from the fall and spring commencements, the student with the highest grade-point average and the greatest number of credits earned at NMSU with computable grades will be awarded the Class of 1919 Scholarship Plague.

# Registration

Ongoing registration for Fall semester is scheduled April through August, prior to the first day of instruction and registration for Spring semester is scheduled November through January, again prior to the first day of instruction.

# **Repeating Courses**

A student may repeat a course in which a D or F grade has been earned. A computable grade (excluding I, W, RR, AU, CR, S or U) in a repeated course may be submitted in the calculation of the grade point average, though the original grade also remains on the transcript. The first occurrence with a C- or better grade will count in earned/passed hours. Future attempts will not count in earned/passed hours. If a student repeats a course eligible for grade substitution in which he has earned a D and fails the course, the second grade of F may be substituted for the original grade.

Neither credits nor grade points may be earned by repeating a course for which a grade of C or higher has already been received. Repeat options applies only to eligible courses that were completed prior to the time a student was awarded a degree at NMSU.

# **Resources for Students**

#### **Advising**

Individual academic advising is available to all current and potential students. Advisors help individuals understand and utilize placement test results, set and reach academic goals, decide upon a major course of study, select appropriate courses and facilitate successful transfer to a four-year institution. To make an appointment, go to <a href="https://carlsbad.nmsu.edu/student-counseling-development/">https://carlsbad.nmsu.edu/student-counseling-development/</a>, visit Student Services in Room 111 of the main building, or call (575) 234-9221.

## **Campus Health Center**

Mission: To provide outpatient, on campus medical support for students and employees of NMSU Carlsbad.

#### **Medical Services Provided:**

- · Routine care for illness (acute & urgent)
- · Family Planning
- · Physical and Women's Health Exams
- · STD Testing
- · Referral Assistance
- · Health Education
- Immunizations
- · Smoking Cessation, Blood Pressure and Vision Screenings
- · Mental Health Consultations by Appointment

# **Distance Education**

The Office of Distance Education extends New Mexico State University's reach beyond traditional programs to provide opportunities for students to meet their academic, professional and personal learning goals. Distance Education courses from NMSU are delivered using the most innovative technology and methods available, including web-based technologies, ITV (Interactive Television), faculty exchanges and off-site classes.

Distance Education (DE) programs are designed to serve students who live a significant distance away from the campus or have scheduling conflicts due to family or work obligations and often find distance education as the best solution to educational advancement. DE at NMSU is defined as the formal education process of delivering instruction so that students physically remote from the campus of program origin and/or instructor may participate. Distance education degree programs at NMSU are delivered using both a variety of formats including 100% online, or combination of ITV, online and face-to-face instruction at the Las Cruces campus or off-site locations such as NMSU community college campuses. Visit <a href="http://distance.nmsu.edu/degrees/index.cmf">http://distance.nmsu.edu/degrees/index.cmf</a> for a complete listing of programs.

#### **Bachelor's Degree Completion Programs**

All undergraduate degree programs offered through NMSU are bachelor degree completion programs. These programs require that students have all lower-division (100 and 200 level) credits completed before admittance into the program. Bachelor degree completions programs normally require two years of 300 and 400 level upper-division coursework to finish. The undergraduate degree completion programs vary in delivery format. Some are 100% online; some use web-based delivery and online; and some use online combined with face-to-face or ITV instruction at off-site locations such as NMSU community college campuses. Visit <a href="http://distance.nmsu.edu/degrees/index.cfm">http://distance.nmsu.edu/degrees/index.cfm</a> for a complete listing of programs.

# **Degree Audit**

Students have access to Degree Audit System (STAR) available through their student online account at <a href="http://my.nmsu.edu">http://my.nmsu.edu</a>. To self-check progress toward a degree, students must select the college, the degree and the year they met the requirements. The reports are self-explanatory. See an advisor for assistance, if necessary.

# **Off-site/Extension Programs**

Distance education programs listed under this category are delivered primarily face-to-face at off-site/extension locations. Often, these courses will enhance instruction and learning with technology. Programs are located at NMSU two-year and Albuquerque Center campuses as well as other locations through the state. Several degree programs are available at one or more off-site/extension locations. Visit <a href="http://">http://</a>

<u>distance.nmsu.edu/degrees/index.cmf</u> for a complete listing of programs.

### **Technology-Based Programs**

Distance Education programs listed under this category are delivered primarily using distance learning technologies. In some cases, programs may require brief residencies on the Las Cruces campus for orientation, assessment, or other activities. Technologies used to deliver distance learning education include:

- Instructor Canvas the learning management system, enables instructors to utilize the Internet in the delivery of a course
- Adobe Connect the web-conferencing system, offers a synchronous Web delivery solution for conducting virtual or live classroom events through the Web
- Instructional Media Services provides course delivery through a
  variety of synchronous and asynchronous technologies. Courses
  may use what is known as a "blended approach" to instruction
  by integrating two or more types of technologies shown above to
  promote engaging and effective learning.

## **ID Card Services**

The NMSU Aggie ID Card is the primary source of student identification for the campus. The Aggie ID Card serves as a membership card for meals, Aggie Cash, as a key in some residential buildings, carries proof of eligibility for access to athletic events and allows for other student services. This information is added to your card after registration for classes and financial arrangements have been completed. Please visit <a href="ideard.nmsu.edu">ideard.nmsu.edu</a> for more information.

Aggie Cash is a pre-paid account that allows you to use your Aggie ID Card to make purchases at locations all over campus. The NMSU Enhanced Aggie ID Card allows your student card to also be your Wells Fargo debit card. The Business Office has the information you will need. For more information please contact us at (575) 234-9200.

# **Information and Communication Technologies**

Information and Communication Technologies (ICT) provides the university community with the computing resources and services that support the educational, research, and public service missions of the university. The resources include NMSU's central computing systems, the network that supports the systems and the wired and wireless functionality through which the internet is accessed. ICT also provides support for NMSU technology users through its Help Desk. For further information, contact ICT at (575) 234-9448.

## **Student Accessibility Services**

For a complete listing of services offered, please see section in <u>Academic Support Services</u>, <u>Costs</u>, <u>Campus Resources</u>, <u>Student Activities</u> (p. 47).

# **Student Life and Government**

Although NMSU Carlsbad does not maintain dormitories, the Student Services Office can be instrumental in helping students locate suitable housing.

Academic programs and student activities at NMSU Carlsbad are available to all students without regard to race, ethnic origin, creed, religion, gender, sexual orientation, disability or national origin. Students who possess a disability that impacts a major life activity may request and receive academic accommodation assistance as appropriate.

To begin the process of securing academic accommodations, students must first self-identify with the Student Accessibility Services Coordinator

in the Counseling and Student Development Center. Visit room 111 or call 234-9321 to make an appointment.

The provisions of this catalog are not regarded as a contract between the students and NMSU Carlsbad. The college reserves the right to alter, amend or revoke any rule or regulation and to otherwise change any provision or requirements when such action will serve the interests of the student or the college. Our policy is to give advance notice of such changes whenever feasible. Unless the change in a rule or regulation specifies otherwise, it shall become effective immediately. Without limiting the extent of its powers to alter, amend or revoke rules and regulations associated with its delivery of instruction and academic support services, NMSU Carlsbad reserves the right to make changes in degree requirements in agreement with NMSU Las Cruces, by:

- Altering the number of credits and/or courses required in a specific certificate or associated degree program;
- · Delete courses;
- Amending courses by increasing or decreasing the credits of specific courses or varying the content of specific courses;
- · Offering substitute courses in the same or cognate field; and/or
- Adding, altering or deleting academic programs, related offerings and support services.

Whenever curricular changes alter an enrolled students' program and academic progress toward graduation, NMSU Carlsbad will make every reasonable effort to help that student complete his or her studies in a timely manner. Faculty and academic advisors may assist any enrolled student in planning a program of study. The final responsibility for meeting the requirements for graduation, however, remains with the student.

#### **Testing Services**

The Test Center is located in Room 221 in the Main Building on the second floor. The Testing Services Office is located in Room 2J in the Main Building also on the second floor. The fall and spring office hours are Monday through Friday, 8:00 am to 12:00 noon, 1:00 pm to 5:00 pm; summer hours are Monday through Thursday 7:00 am to 12 noon, 1:00 pm to 6:00 pm. The office phone number is (575) 234-9322. The office provides testing for High School equivalency HISET Paper/Pencil option and the Pearson Vue GED Computer based option. The office also provides testing for the NMSU Carlsbad Pre-Nursing program HESI A2 and College Placement testing for Dual Credit students and for incoming College freshman. The office also provides WORKKEYS Certification exams for College students earning one year certificates. ETS Proficiency Profile Exit Test is also provided for College students earning two year associate's degrees. Testing for other colleges is also provided for \$30.00 an hour.

# **Transfer Students**

Transfer students from other colleges or universities may be accepted for undergraduate studies if they have completed at least 36 credit hours with a cumulative GPA of at least 2.0. Students who have earned 35 or fewer college credits must fulfill the freshman admission requirements and have at least a 2.5 overall grade point average in college.

In applying for admission to NMSU Carlsbad, new and transfer students are advised to follow these procedures.

1. Apply for admission. Forms are available in the Student Services Office or online at <a href="https://app.applyyourself.com/?id=nmsu-u">https://app.applyyourself.com/?id=nmsu-u</a>

Request official transcripts of high school or GED and all previous college course work. All Official transcripts should be mailed directly by the school or college registrar to:

NMSU Carlsbad ATTN: Admissions Office 1500 University Drive Carlsbad, NM 88220

- Take placement tests in certain Math, English and Reading. The test
  may be waived for students who have taken the ACT within the last
  year, are transferring in Math, Reading or English courses or pursuing
  certain vocational program.
- 4. Meet with an advisor in the Counseling and Student Development Center before registering to receive assistance with choice or major, course information, degree plans and proper course selection.

Enter registration information by web (<a href="https://my.nmsu.edu">https://my.nmsu.edu</a>) and pay, or make arrangements to pay, applicable tuition and fees in the Business Office.

# **Community/Junior College Transfers**

Community/Junior college transfer students may be admitted and classified on the basis of acceptable credits earned at a two-year institution. However, transfer students are subject to the same graduation requirements as all NMSU Las Cruces campus baccalaureate seeking students. This includes the required minimum number of 48 upper division credits from courses numbered 300 or above and the requirement that the last 30 credits must be earned through this university.

NOTE: Students currently enrolled at a NMSU Community College (Alamogordo, Dona Ana, Carlsbad or Grants) are not considered transfer students. If a student wants to change campuses they must submit a **Change of Campus** form.

# **Transcripts**

The transfer student must have official transcripts forwarded directly to the University Admissions Office by the Registrar of each college or educational institution previously attended. A student who conceals the fact that he or she has attended another college or university, and who has not had the Registrar submit a transcript for each institution whether or not credit was earned, will be subject to immediate suspension. Transcripts must be received before the date of registration. NMSU will uphold academic and judicial suspensions from other colleges and universities.

# **Transfer of Credits at NMSU**

NMSU evaluates courses from post-secondary institutions that are regionally accredited or are candidates for regional accreditation. Provided the classes are similar or equivalent to courses offered at NMSU, credits will be matched for coursework completed with a grade of D or better. However, departments may choose to accept only courses graded C- or higher within their programs. Each college determines which transferred courses are applicable toward a degree or a minor. Grades earned in courses taken at other institutions are not included in the calculation of the NMSU GPA, except for grades earned by approved National Student Exchange students.

Transcripts may need to be re-evaluated when students transfer from one NMSU college to another.

# **Evaluation of Transfer Credits**

Once a student has been admitted to NMSU, an evaluation of credits on a course-by-course basis is submitted to the college (by the University Student Records Office) to which the student is admitted. The student's academic dean approves those transfer courses that are acceptable toward a degree or a minor.

Credits from non-accredited institutions may be evaluated by the student's academic dean after the student has completed two semesters in full-time status with satisfactory grades. Currently enrolled students must obtain prior approval from their academic dean before work taken at another institution may apply toward meeting graduation requirements.

# Transferring Courses to Fulfill the New Mexico General Education Common Core

During the 2005 New Mexico Legislative session, Senate Bill 161, consistent with requirements of state law (Chapter 224 of the Laws of New Mexico, 1995 as amended) was signed into law to further enhance and facilitate the articulation of general education courses among New Mexico's colleges and universities. In accordance with policies established by the New Mexico Higher Education Department, designated general education core courses successfully completed at any regionally accredited public institution of higher education in New Mexico are guaranteed to transfer to any New Mexico public institution. Students who have decided on a major and/or an institution at which to complete their studies should consult with an academic advisor at that particular institution to determine the most appropriate course selections. Students enrolling for the first year of study at a New Mexico college or university and considering possible transfer into a certificate and/or degree program at another institution are encouraged to take the courses approved for transfer during their freshman and sophomore year of study.

The core matrix of approved courses guaranteed to transfer and meet general education requirements at any New Mexico college or university can be found on the New Mexico Higher Education Department web site at: <a href="https://www.hed.state.nm.us">www.hed.state.nm.us</a>. Courses are listed by institution, whether university or community college, under each of the five general education areas. The courses for New Mexico State University are listed in the required courses section of this catalog.

# **Transferring Courses within Degree Programs**

To facilitate the transfer of courses within certain degree programs, New Mexico colleges and universities have collaborated to develop transferable discipline modules. These are composed of an agreed upon number of hours and courses. When discipline module courses are taken in addition to the 35-hour general education core, the total number of hours in a transfer module are approximately 64.

# **Transfer Credit Appeal Process**

All New Mexico public post-secondary institutions are required to establish policies and practices for receiving and resolving complaints from students or from other complainants regarding the transfer of coursework from other public institutions in the state. A copy of NMSU's transfer credit policy may be obtained from the University Student Records Office or from the

Deputy Secretary for Academic Affairs Higher Education Department 2048 Galisteo St. Santa Fe, New Mexico 87505-2100.

# **Student Responsibility**

Planning for effective transfer within maximum efficiency is ultimately the student's responsibility. Responsible transfer planning includes early and regular consultation with the intended degree-granting institution to assure that all pre-transfer coursework will meet the requirements of the desired degree.

# **Tuition, Fees and Other Expenses**

All costs are given for one term/semester. The university reserves the right to change any of the charges without notice.

# **Campus Tuition Rates**

For a full listing of all tuition rates from the NMSU System please see the <u>University Accounts Receivable</u> website.

# Undergraduate Tuition and Required Fees Additional Fees

Admission application fee	\$20.00
Course Delivery (per credit)	\$25.00
ASNMSU fee	\$33.50
Certificate degree fee	\$25.00
Degree application late filing fee	\$25.00
Late Registration Fee Base Cost	\$25.00

Note: A required \$50.00 health care fee is included in full time required fee calculation.

### **Course Fees (Fees Assessed per Course)**

Courses in computer science, physical education, manufacturing and craft skills, nursing, science, welding and other courses, may require students to pay fees to acquire special supplies. Some music courses also require additional fees. These fees are approved by the NMSU Board of Regents and are listed each semester in the Schedule of Classes published by NMSU Carlsbad. See each term's Registration Guide for lists of courses with additional fees.

## **Payment of Charges**

By enrolling in classes at NMSU, a student makes a financial commitment to pay the tuition and fee charges associated with that enrollment. The enrollment action constitutes a financial obligation between the student and NMSU and all proceeds of this agreement will be used for educational purposes and constitute an educational loan pursuant to 11 U.S.C. § 523 (a) (8). Terms and Conditions of Course Registration are posted on the NMSU website and available in each term's registration guide. Payments can be made by mail, web, telephone, or in person at the NMSU Carlsbad Business Office. Cash, checks, money orders and limited types of credit cards are accepted. Term charges can be paid in full or paid by using a payment plan. For payment plan options visit the NMSU website. Fees vary based on the plan. All financial aid received must be paid towards balances owed. Additional penalty charges may be assessed for failure to make payments when due. The University reserves the right to deny a payment plan to any student who has a poor credit rating or who has been negligent in making payments to the University for previous debts. Course reservations may be canceled if payment arrangements for past due dates are not completed by the deadlines as outlined in a term's registration guide. Academic credits, transcripts and diplomas will be withheld until all financial obligations are paid. Students are prohibited from registering for a term until all previous debts are due to the University are paid in full.

# **Tuition Adjustments, Refunds and Forfeitures**

Students official withdrawing or dropping courses during a semester or term are eligible for a 100-percent refund of tuition and fees through the deadlines listed online. Go to <a href="http://registration.nmsu.edu">http://registration.nmsu.edu</a>, click on the drop-down menu for the appropriate semester or term, and select "Important Dates and Deadlines." Students withdrawing from courses after that deadline will not be eligible for a refund and will remain liable for full tuition and fee charges. Non-attendance does not constitute an official course drop or withdrawal. All charges due to NMSU Carlsbad must be paid before refunds or adjustments will be permitted.

In case of academic or disciplinary suspension, eligibility for tuition refunds and adjustments will depend on the condition of the suspension and will be entirely at the option of the institution. Should unforeseen circumstances beyond the reasonable control of New Mexico State University Carlsbad result in curtailing classes or otherwise withdrawing services that are a normal function of the institution, refunds of any nature will be at the discretion of the college/university administration.

# **Payment Plan**

Tuition, fees and other charges posted to the student account may be deferred and paid over the course of the semester by signing up for a payment plan. Students with an account balance of \$200 or greater must sign up for a payment plan by the "Last Day to Drop a Course and Receive a 100% Refund" date which is also known as the Census date. There is a \$25 non-refundable enrollment fee and a 20% down payment due at the time of enrollment for fall and spring semesters and a 33.33% down payment for the summer semester. Equal monthly payments are due on the 15th of each month of the semester. A \$10 late fee is assessed to the student account for late, partial or missed payments. Students who are required to sign up for a payment plan and fails to do so by the deadline will have their current semester courses cancelled.

## **Delinquent and Prior-Term Balances**

NMSU reserves the right to cancel the registration of any student who fails to pay, when due, any indebtedness to the institution. Academic credits, transcripts and diplomas will be withheld until all financial obligations are paid.

# Dishonored Financial Transactions – Checks, Credit Cards, ACH Transactions

The University charges a penalty on all dishonored cash instruments. Personal checks will not be accepted from students who have had previously dishonored checks.

# **Late Registration Fee**

A late registration fee of \$25 is imposed if registration has not been completed before the late-registration period begins. Failure to make scheduled payments with the Carlsbad Business Office or University Accounts Receivable on due dates may result in additional liability.

# **Estimating Other Expenses**

In addition to the direct costs stated above, other expenses per semester may include such items as textbooks, supplies and personal expenses.

# **Cooperative Education**

Students participating in the Cooperative Education Program who receive academic credit pay the same tuition fees as regularly enrolled students. Work phase students who are assigned to campus or a nearby off-campus workstation may pay for the student wellness/fitness as if they were a part-time student enrolled in 1-5 credits.

# **Ways to Qualify for Lower Tuition Rates**

Resident or nonresident status is determined in accordance to a uniform definition established for all New Mexico institutions by the Higher Education Department, State of New Mexico. The University Student Records Office administers residency. Information on the following programs may be obtained from the University Admissions, the University Financial Aid and Scholarship Services, the NM Administrative Code (NMAC) 5.7.18.

- · American Indian Agreement
- · Colorado-Arizona Reciprocal Agreement
- · Dual Credit
- · Fire Fighter and Peace Officer Survivor Scholarship
- · Foreign Military Dependent
- · Foreign Military Spouse
- · Foreign Military Stationed in New Mexico
- · Immigrant Student (NM HS GRAD)
- · Military Dependent
- · Military Spouse
- · Military Stationed in New Mexico
- · NM Competitive Scholarship
- · Part-time Students
- · Senior Citizen Waiver
- · Summer Session
- Texas 135
- · Veteran Waiver
- · Western Undergraduate Exchange
- WICHE

#### **Reduced Tuition Rates for Senior Citizens**

Senior citizens (persons aged sixty-five years or older) who are New Mexico residents are eligible for reduced tuition under the Senior Citizens Reduced Tuition Act. The cost will be \$5.00 in tuition per semester credit, plus a \$3.00 administrative fee for a total of \$8.00. There may be additional required fees such as course or lab fees. Senior citizens may register for a maximum of 6 semester credits at the reduced rate, on a space available basis.

#### **Contact Information**

For more information, contact:

University Accounts Receivable, MSC 4570 New Mexico State University P O Box 30001 Las Cruces, NM 88003-8001 Phone: (575) 646-4911 http://uar.nmsu.edu.

# The NMSU System Academic Regulations

The following regulations are effective with the publication of all the NMSU system catalogs, this includes the Las Cruces-Academic Catalog, Alamogordo Community College, Carlsbad Community College, Dona Ana Community College, and the Grants Community College catalogs. All regulations in this section of the catalog pertain to all the campuses housed with the NMSU System, this means that information for students

pursuing Associate Degrees/Certificates, Bachelor's Degree, and Graduate Degrees/Certificates is within the section of the catalog.

The regulations section is broken down into different areas:

- · Academic Programs of Study
- Registration
- · Academic Performance and Progress
- Grading
- · Withdrawals
- · Degree Applications, Graduation & Commencement
- · Academic Standing and Probation
- · Academic Misconduct and Grievances
- · The University Student Records Office

NMSU offers Associate, Baccalaureate, Master's and Doctoral degrees. NMSU also offers Certificates at the associate and graduate levels. Requirements for specific degrees and other designations are set forth by this catalog for the NMSU-Las Cruces (main) campus and the corresponding catalogs for the NMSU Community Colleges (Alamogordo, Carlsbad, Dona Ana and Grants).

# **Additional Degree Designations**

As part of a degree program, students may also earn additional degree designations indicating fields of study such as majors, minors or concentrations. A major is defined as a recognized area of study in which there is an extensive and well-developed curriculum offered at the university, as well as adequate library resources and support services. A minor is based on courses that encompass a recognized field of study outside the student's major. A concentration is based on a collection of coursework in an area that is part of a major program of study. Degrees and additional designations awarded, limited to majors, minors, and concentrations, will be noted on the student's transcript.

# **Catalog Effective Period**

Beginning with 2020-2021 catalog each subsequent annual catalog edition is effective Summer Session I through Spring Semester and is considered active for an eight year period for all campuses. Curricular requirements (course requirements and number of credits required) for a specific degree or other designation may be met by completing all of the course requirements as set forth by the catalog in effect at first matriculation, or any subsequent catalog, provided the selected catalog is considered active when the requirements for graduation are met. For all other matters, the current catalog is controlling. NMSU reserves the right to withdraw courses at any time, change fees, rules, calendar, curriculum, degree programs, degree requirements, graduation procedures and any other requirements affecting students. Except as otherwise stated here, changes will become effective whenever the proper authorities so determine and will apply to both prospective students and those already enrolled

# Application for Degree/Graduation or Certificate

Upon completion of all requirements for degrees and certificates, students will not receive their degrees automatically. In order to receive the degree or certificate, students must submit an application and pay the required fee in the semester in which the student expects to graduate or complete the degree or certificate requirements. Specified in the academic calendar for each semester is the deadline for all applications.

The application must indicate/ note all designations earned. After awarding of the degree, you cannot add any additional designations.

Students who will be completing two degrees/certificates in the same semester must apply for graduation and pay the fee for each degree separately. Students applying for graduate degrees or certificates must satisfy requirements as described in the Master's, Certificates, and Doctoral Degree sections below.

Students who do not meet requirements or elect not to graduate after filing an application need to re-apply in a subsequent semester and pay another fee.

# **Multiple Degrees and Designations**

A student may earn more than one degree or multiple degree designations by completing all of the requirements in an appropriate catalog for each degree or designation. Students completing requirements for more than one degree must apply for and pay the application fee for each degree to be awarded. Upon completion of all requirements, multiple majors for a single degree (e.g., B.A., Major in Art; Major in Anthropology) and multiple bachelor's degrees (e.g., B.A. and B.S.) will be noted on the student's academic record/transcript and may also be granted at one commencement.

# **Degree Revocation**

The Board of Regents reserves the right to revoke a degree should it be determined upon investigation that the degree requirements were not properly met. A degree revocation must be in accordance with NMSU policy and related rules.

# **Honorary Degrees**

Ceremonial Honorary Degrees may be awarded in accordance with NMSU policy and rules as set forth in the NMSU Regents Policy Manual and the related Administrative Rules and Procedures.

# **Community College Certificate**

A Community College may offer two types of certificates, the Certificate of Achievement and/or the Certificate of Completion. Certificates may be awarded independently from any degree program.

# **Certificate of Achievement**

The Certificate of Achievement is a program of study less than 16 credits and is not eligible for Federal financial aid. This Certificate provides employment related and/or career enhancing skills necessary to succeed in a job or a chosen field of study. These courses can be a subset of those required for a corresponding Certificate of Completion or Applied Associates Degree. These certificates are recorded on the student's transcript. The following requirements apply to all certificates of achievements:

- Minimum Credit Hours: The number of credit hours varies from certificate to certificate but must be fewer than 16 credits. Students must successfully complete the total number of credit hours as outlined in the respective catalogs and sections describing these certificates.
- GPA requirement: Students must successfully complete all
  courses for the certificate as outlined in the catalog and and have
  a cumulative GPA of 2.0 or greater in all courses required for the
  certificate, but may have a cumulative GPA of less than 2.0 for
  courses taken outside of the certificate.

3. Residency: A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

# **Certificate of Completion**

The Certificate of Completion requires a minimum of 16 credits (other Title IV requirements must be met to be eligible for financial aid) and has been approved through the academic review process. These courses can be a subset of those required for a corresponding Applied Associates Degree. These certificates are recorded on the student's transcript.

Requirements for certificates are found in the respective catalogs and sections concerning these programs. The following requirements apply to all certificates.

- Minimum Credit Hours: The number of credit hours varies from certificate to certificate. Students must successfully complete the total number of credit hours as outlined in the respective catalogs and sections describing these certificates.
- GPA requirement: Students must successfully complete all courses for the certificate as outlined in the catalog. In addition, students must have a cumulative GPA of 2.0 or better in all courses taken at NMSU or one of its community colleges.
- 3. Residency: A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

# Associate's Degree

Associate's degrees are of two types. The academic associate's degree prepares students to transfer to a baccalaureate program and generally includes credits toward the first two years of a four-year degree. Academic associate's degrees include the Associate of Arts, the Associate of Science, and other named degrees that link to a specific major (the Associate of Education, for example). Other associate degrees, typically called Associate of Applied Science, prepare students for entry into the workforce. Credits for these programs may or may not apply toward a four-year degree. Associate degree seeking students who are interested in a dual degree should consult with their academic advisor. The Associate of Arts and the Associate of Science degrees cannot be earned together. The Associate degrees.

Students interested in transferring to NMSU or another four-year institution should check the appropriate sections of the university catalog for more information.

Requirements for the two-year associate degrees are found in the respective catalogs and sections concerning these degrees. The following requirements apply to all associates degrees:

- Minimum Credit Hours: a minimum of 60 credits (excluding "N" suffix courses). Some programs of study require coursework in excess of the 60 credit-hour minimum.
- New Mexico General Education- state mandated general education courses (as specified in General Education section); such course are designed with a "G"
  - a. For Associates Degrees: 32-35 credits
  - b. For Applied Associates Degrees: 15-18 credits

- GPA requirement: Students must have a cumulative GPA of 2.0 or better in all courses taken at NMSU or one of its community colleges. In addition, students must earn a C- or better in classes they take to meet the Basic Skills requirement (ENGL 1110G and one of several math course options),
- Residency A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.
- Major: All requirements for at least one major field of study as specified in the college and departmental sections of the respective catalog.

## **Associate Major**

An associate major, consisting of at least 18 credits, may include courses from more than one department. Requirements for the Associate Majors are specified in the respective Community College Catalogs.

# **Baccalaureate Degree (Bachelor's Degree)**

A baccalaureate or bachelor's degree provides students with a broad educational base as well as knowledge in a specific major field. Each college has unique degree requirements that are listed in the college's designated section of this catalog. In addition to the College and Department requirements, students must complete each of the following degree requirements for every Bachelor's Degree awarded by NMSU:

- Minimum Credit Hours: a minimum of 120 credits (excluding "N" suffix courses)
- GPA requirement- a minimum cumulative GPA of 2.0 in all courses taken at NMSU
- New Mexico General Education 32-35 credits of state mandated general education courses (as specified in General Education section); such course are designed with a "G"
- New Mexico State University's Viewing a Wider World- 6 credits of Viewing a Wider World courses; such courses are designated with a "V", or alternatives as specified in the Viewing a Wider World section
- Upper Division Courses a minimum of 48 credits in courses numbered 300 or above.
- Residency Of the last 36 credits earned toward award of the degree:
   a. 30 credits must be completed at NMSU
  - b. 21 credits must be upper division (300 or above) and
  - c. 12 of the 21 upper division credits must be within the student's major.
    - NOTE: colleges or departments may require that more than 12 upper division credits be within the major and they may direct that a certain number of these credits be course specific.
- 7. Major all requirements for at least one undergraduate major field of study, other than a supplemental major, as specified in the college and departmental sections of the catalog. As an undergraduate student seeking a baccalaureate degree you are expected to declare a major prior to earning 45 credit hours toward your degree. You should complete your general education requirements within your first 90 credit hours earned.

# Bachelor's Degree Designations Undergraduate Major

An undergraduate major consists of 24 or more credits within the major field, of which 18 credits must be upper-division courses, and may include courses from more than one department. Additional requirements for

majors are specified in the college and department's designated sections of this catalog.

## **Supplemental Major**

A supplemental major consists of 24 or more credits of interdisciplinary coursework, of which at least 18 credits must be upper-division (300-499), and no more than 9 credits may be from the student's major course of study. Additional requirements for supplemental majors are specified in the catalog listing of the departmental/college sections.

## **Undergraduate Minor**

An undergraduate minor consists of 18 credits of course work, of which 9 credits must be upper-division (300-499). A minor encompasses courses that may be in a single department or interdisciplinary and are in a recognized field of study outside the student's declared major. At least 9 upper-division credits of a minor must be completed at NMSU. Additional requirements for minors are specified in the college and department's designated sections of this catalog. Minors cannot be earned after the degree has been conferred.

## **Undergraduate Concentration**

A concentration consists of 12 or more credits of coursework in a specialty area that is related to a specific major field of study. At least 9 of the 12 credits must be upper-division (300-499), and at least 9 credits must be completed at NMSU. Additional requirements for concentrations are specified in the college and department's designated sections of this catalog.

# **Distance Education Bachelor's Degree Completion Program**

A Bachelor Degree Completion Program allows students who have met the lower division requirements (100 and 200 level) of an undergraduate degree program to complete the remaining upper-division credits (300 and 400 level) through distance delivery courses offered by NMSU Las Cruces. Only selected degrees are available as degree completion programs. Students must complete all required lower-division (100 and 200 level) credits before they can be admitted to the Bachelor's Degree Completion Programs. The program(s) normally require two years of upper division (300 and 400 level) coursework.

# **Graduating with Honors**

For information about graduating with Honors, please refer to the Recognition of Academic Achievement section of this catalog.

# **Graduate Degrees**

All graduate degrees are subject to rules and regulations of the Graduate School. Degrees will be certified by the Graduate School only upon the complete review and clearance of the candidate's program of study.

# **Graduate Degree Designations Graduate Major**

A graduate major may include courses from more than one department, but as a minimum it must consist of at least 30 graduate credits. Additional requirements may be imposed by the State of New Mexico and New Mexico State University as specified in this Catalog.

#### **Graduate Minor**

A graduate minor is based on at least 9 graduate credits in courses that encompass a recognized field of study outside the student's major.

Departments may require certain courses be a part of a minor and may exclude other courses.

#### **Graduate Concentrations**

A concentration is a collection of coursework in a specific area that is part of a degree program of study at NMSU. At the graduate level at least 9 of these 12 credits must be numbered 500 or above. Only approved concentrations within a students' department or program may be noted on a transcript.

Concentrations will not be added to a transcript after a degree is awarded. In order for the approved concentration to be noted on the student's transcript, the following conditions must be met:

- Request the concentration at the time they file their official program of study.
- 2. Identify the concentration on their official Application for Degree.

## **Graduate Certificates**

A Graduate Certificate program requires 12-18 credits of course work that is interrelated and designed to develop a focused skill or area of expertise but does not culminate in the awarding of a degree. Courses that comprise a graduate certificate must be regular approved courses offered by the University and must be numbered 450 or above. A graduate certificate is indicated on the student's transcript.

# Master's Degree

New Mexico State University offers both academic and professional master's degrees. A link to the list of all master's degrees is provided in the Graduate School section of this catalog.

Underprepared students may be required to take additional general or discipline-specific undergraduate or graduate courses to prepare them for the advanced academic work necessary for success in graduate level courses in their chosen field.. This may result in an extended graduation data

## Admissions to the Master's Degree

The admission of a student into the Graduate School does not imply admission to candidacy for an advanced degree. The major department in which the student intends to become a candidate for a master's degree must determine the student's ability to pursue studies at the graduate level. Please see the Department(s) for specific requirements.

## **Program of Study**

After the completion of one year of enrollment each new graduate student should prepare a complete program of study in consultation with the student's advisor.

# **Application to Candidacy**

The program of study will formally list the curriculum requirements for degree completion and is required for application to candidacy. The program of study must be approved by the advisor, department, and academic dean and submitted to the Graduate School. The Program of study may specify the Catalog at the time of graduation, as long as the catalog is considered active. Otherwise, the current Catalog will be listed.

An Application for Admission to Candidacy must be filed with the Graduate School. This must be done before the completion of 12 credits of graduate coursework. The student must have a minimum cumulative GPA of 3.0 at the time the application is submitted. The application may specify the Catalog at the time of graduation, as long as the catalog is considered active. Otherwise, the current Catalog will be listed.

The student's program of study must:

- 1. Meet the requirements of the chosen catalog, including the regulations of the Graduate School and of the major department.
- 2. Be signed by the student, the student's advisor, department head, minor faculty if applicable, and academic dean.
- List each course prefix/number, short title, credit hours and grades if available.

If the program of study does not comply with the departmental requirements or the potential degree audit, the program of study must be approved by the Dean of the Graduate School. . The Program of Study is not required for master's programs if defined within the Star Degree Audit.

## **Credit Hour Requirement**

A minimum of 30 credits is required for the master's degree. Most master's degrees require at least 15 credits in courses numbered 500 or above. This includes thesis credits for any master's programs that include a thesis option. Master's programs involving a thesis, must include, either a minimum of 4 credits or a maximum of 6 credits of thesis. Please see the "Thesis" section for more information.

At least 15 credits for the master's degree must be for work in courses within the student's department. Additional credits may be selected from other fields to fit into a logical and justifiable program. However, courses that are used to remove deficiencies or satisfy prerequisites cannot be counted as requirements for a master's degree.

# **Coursework Requirement**

Students must take coursework from a variety of faculty. Students may not take more than half of the minimum credits required for a master's degree with the same professor, excluding thesis credits.

All graduate students are required to register for a minimum of 1 credit of graduate coursework in their final semester. Please see the Tuition, Fees and Other Expenses section for more information.

## **Thesis Option**

A thesis in the major field is recommended and may be required at the discretion of the department. A minimum of 4 credits and a maximum of 6 credits may be counted toward the requirements for a master's degree. The final examination shall consist of an oral defense of the student's thesis as well as a general examination of the candidate's field of study.

 Continuous Enrollment- once registered, a student must continue to register for a minimum of 1 credit in thesis or graduate coursework each regular semester until the thesis is approved by the Graduate School and the copies have been accepted by the Branson Library binding section.

## **Graduate Committee for Thesis Option**

The graduate committee for the master's degree consists of a minimum of three faculty members who hold, at least, a master's degree and meet the following criteria:

- 1. Committee chair:
  - a. Must be from the student's home department
  - b. Must be a graduate faculty member
- 2. Committee member(s):

- a. May be from outside the student's home department
- Student's with a declared minor- may have the representative from a related area or be appointed by the Dean of the Graduate School
- c. Must be a graduate faculty member

#### 3. Dean's Representative:

- a. Must be a representative from a related area or appointed by the Dean of the Graduate School
- b. Must be a graduate faculty member

## **Finalizing the Master's Thesis**

After successful completion of the final examination, electronic submission of the approved thesis must be submitted to ProQuest ETD, no later than the deadline posted to the Graduate School website. The form and style of the thesis must comply with the guidelines provided in Preparing your manuscript for submission, located at <a href="https://gradschool.nmsu.edu/wp-content/uploads/sites/5/2019/02/2.-Preparing-Your-Manuscript-for-Submission-Revised.pdf">https://gradschool.nmsu.edu/wp-content/uploads/sites/5/2019/02/2.-Preparing-Your-Manuscript-for-Submission-Revised.pdf</a>. The guidelines also contain detailed information on the thesis submission and approval process. The thesis is not complete until the Graduate School has accepted it electronically.

#### **Professional Degree and Non-Thesis Final Examination**

Each candidate will be given a final examination conducted by their graduate committee in accordance to the schedule provided by the Graduate School. It is the department's responsibility to ensure that the Report of Results for the Master's Professional or Non-Thesis Final Exam form is submitted to the Graduate School at least ten working days after the exam.

The final examination format for the professional degrees and nonthesis option will be determined by the department, with the approval of the Dean of the Graduate School. If a department does not specify an examination format, the final examination will consist of an oral defense of the candidate's field of study.

At the time of the final examination, a graduate student must have a cumulative GPA of at least a 3.0 and must be enrolled for a minimum of one credit hour in the final semester; or if the student is writing a thesis, he or she must have completed all course work for the master's degree.

NOTE: the cumulative GPA, will be calculated from NMSU graduate coursework only.

Any candidate who fails in the final examination may either.

- Be granted a second examination, written or oral, after a lapse of at least one semester, only with a recommendation from the student's advisor and approval from the Dean of the Graduate School.
- 2. Be excluded from further candidacy for the degree.
- Failure in the second examination disqualifies a candidate from obtaining the degree.

Students in professional or non-thesis options may be required to pay a special exam fee in lieu of registering for 1 credit of graduate coursework. Please see the Tuition, Fees and Other Expenses section for more information.

# **Time Limit**

Students must complete the master's degree program within seven years (or eight successive summers) of the start of the degree, including completion of the master's thesis or final project. Inclusion

of any coursework more than seven years old at the time of the final examination will be at the discretion of the department.

# Master's Accelerated Program (MAP)

The master's accelerated program provides an opportunity for academically qualified undergraduate students to begin working on a master's degree during their junior and senior years while completing a bachelor's degree. Typically, a bachelor's degree requires four years to complete and a master's degree requires an additional two years. The master's accelerated programs allow students the opportunity to complete a graduate program in an accelerated manner.

Undergraduate students may apply for acceptance to a Master's Accelerated Program available at New Mexico State University after completing 60 semester hours of undergraduate coursework of which a minimum of 25 semester credit hours must be completed at New Mexico State University and apply towards the undergraduate major. The grade point average must be a minimum of 3.0; departments participating in the master's accelerated program may have requirements that exceed these minimum requirements. It is the student's responsibility to meet with their financial aid advisor. Awards may be adjusted to reflect enrollment in an undergraduate/graduate program.

Graduate departments within the colleges may allow academically qualified undergraduate students to substitute a maximum of 12 graduate course credits for elective courses in an undergraduate degree program. Graduate programs have the discretion to use up to 12 credits of NMSU coursework (450 level or higher) that can logically be applied towards the completion of master's program of study. A grade of B or higher in this coursework will be required.

## **Program Participation Requirements:**

- 1. Students must obtain prior approval by the graduate program
- Student's course work must be general or discipline electives in the student's undergraduate course of study. No required courses from the undergraduate program will be accepted towards the Master's Accelerated Program.
- Students will enroll in approved graduate level courses. If course(s)
  requires instructor approval, it is the students responsibility to obtain
  necessary approval
- Students participating in MAP are required to submit a completed Master's Accelerated Program Referral Form to the Graduate School by the first Friday of classes, with all required signatures.
- 5. Students participate in the Developing New Scholars Program (DNSP) through the Graduate School. The DNSP program provides formal mentoring supporting application process to Graduate School. Upon awarding of the Bachelor's degree and formal admissions into a master's/graduate program at NMSU, the approved credits (up to 12) will be recorded on both the undergraduate and the graduate transcript.

# Interdisciplinary Master's Degree

Interdisciplinary studies, at New Mexico State University, are intended for individuals specializing in programs that require the integration of more than one discipline to fully engage in the field of study. The programs provide a mechanism to address emerging scholarship, innovation and research, as well as, allow graduate students to engage in emerging technologies that optimize their education outside the traditional disciplinary boundaries. An Interdisciplinary study takes advantage of traditional academic training within specific departments and also allows students to customize their own career preparation. In these programs, a

coherent common core is expected and is intended to combine existing courses across disciplines to meet unique objectives.

The interdisciplinary studies option should not be used in cases where the applicants' objectives can be realized by admission to a specific department with a degree program, and inclusion of up to two minor areas in the program of study.

### **Admission**

Students interested in pursuing an Interdisciplinary Master's Degree (IMAS) degree must meet with the Graduate School for advisement. The advisement session will include information on completing the IMAS admission application:

- 1. Develop a proposal for interdisciplinary studies
- 2. Create the IMAS graduate committee
- Once the student's graduate committee is designated, the committee can require additional materials such as a statement of interest, letters of recommendation, GRE or GMAT scores and a personal interview.
- Complete the IMAS referral form and procure committee members IMAS program approval.
- 5. Procure academic department head IMAS referral form approval.
- Submit IMAS referral form and proposal for interdisciplinary studies to Graduate School for admissions.

## Degree(s) Awarded

Students receive a Master of Arts (MA) or a Master of Science (MS) and a concentration in the designated interdisciplinary study area.

Other conditions for being awarded a degree within the interdisciplinary studies program are:

- The student must present a written description of the program concept consisting of the following, as well as, the designated degree being sought and a name of the interdisciplinary area:
  - a. The objective of the program of study which should include, proposed areas of skill development and proposed courses in more than one graduate degree granting department at NMSU.
  - b. A justification for not using an existing degree program.
- The student's program of study must include a minimum of 30 graduate level credits and a maximum of 36 graduate level credits.
   Students may take six credits in departments that do not grant a graduate degree, but the courses must be numbered 450 or above and be pertinent to the program of study.
- 3. The majority of the departments involved in the student's program will be master's degree granting departments. The student is expected to take at least 15 credits in the primary area of study within one department. The department selected by the student will receive a copy of the student's application for admissions to the Graduate School. In addition, the student is required to select a minor area of study in another department that consists of at least 9 graduate credit hours.
- 4. The student will form a committee composed of members of the graduate faculty and select an advisor who will chair the committee. The chair must be from the primary department where the student has taken at least 15 credit hours listed in the proposal submitted. The other committee member must be from the department in which the student has selected a minor area of study from the approved list.
- The student will be required to submit the Candidacy Form after they have satisfactorily completed 12 credits.

- 6. The program will meet all requirements of a master's degree, with the interpretation, that "major field" includes courses from two or more departments and in the designated interdisciplinary study area.
- 7. The program of study will include the completion of a research thesis or project. The work may be submitted in the form of a publishable manuscript, technical report, thesis or creative option.
- The student may enroll on a part-time basis keeping in mind that coursework cannot be more than seven years old at the time of the final examination.
- 9. The student will be administered a final comprehensive exam that is consistent with the department selected for the primary area of study. For example, if a department requires a written exam, the student in the interdisciplinary masters will also be required to take a written exam.
- 10. The final oral comprehensive exam will consist of questions pertinent to the area of study and the defense of the research thesis or project. In both cases, an integrated approach to the areas of study chosen should be followed.
- 11. All other rules for graduate study at NMSU must be followed.

### **Thesis/Non-thesis Option**

As with any graduate student, the student in interdisciplinary studies can select to follow a thesis or non-thesis option. Students enrolled in the thesis option register for six thesis credits. Students not wishing to follow the thesis option will be required to complete a project report. The project must reflect the interdisciplinary nature of the program which the student is pursuing.

#### **Comprehensive Exam**

Students in interdisciplinary studies take a comprehensive exam composed of questions designed by the student's committee. The committee consists of two individuals in the area of study, the dean's representative who must be outside of the department/program/interdisciplinary study option, and a committee chair.

# Second Master's Degree

A student who has earned one master's degree at NMSU may be allowed to count a maximum of six semester credits earned on the first degree toward a second master's degree, if those credits fit into a logical graduate program. The number of shared credits may be increased for joint degree programs.

## **Teacher Licensure**

Students wishing to take graduate courses for licensure, renewal of licensure or for personal enrichment must be fully admitted to a department in order to do so. Undeclared students may not register for teacher licensure classes.

Endorsement is available at both the elementary and secondary levels in bilingual education, TESOL (Teaching of English as a Second Language), reading and special education. Endorsement is also available in early childhood education at the elementary level. Contact <a href="mailto:curric-instr@nmsu.edu">curric-instr@nmsu.edu</a> for more information.

# **Specialist in Education**

The specialist in education degree is available for experienced members of the education profession who have maintained a 3.3 grade-point average while pursuing this degree or its equivalent. Programs are available in curriculum and instruction, as well as, school psychology. Emphasis is placed on the development of the competencies needed for a professional specialization in a given field. Students must complete the

general application for the Graduate School and they should also check with the admitting department for specific departmental requirements.

## **Residency and Credit Requirements**

The specialist in education degree requires a minimum of 30 credits including research, intern experiences and graduate courses. Twenty-four of these credits must be completed at NMSU to meet the campus residency requirements.

Students must maintain a 3.0 GPA, no more than 6 credits of C level work are allowed for this program.

#### **Program of Study**

After the completion of one year of enrollment each beginning graduate student should prepare a complete program of study with the student's advisor. The program of study can be tentative, should be kept in the student's file within the department, and is not considered an "Application for Admission to Candidacy."

## **Major Field**

All course work taken for the degree should apply directly, through a logical program of study, to the specialty which candidate has selected. Each department is responsible for defining the required sequence of courses.

## Candidacy

Following the successful completion of 12 credits the student is eligible for admission to candidacy. With the achievement of candidacy, a committee is appointed to work with the candidate on the remainder of the program. The committee consists of three members of the graduate faculty in the College of Education.

## Internship

Each candidate will earn from three to six semester credits in an internship. This experience will consist of supervised performance of duties related to the candidate's specialty. The student's department will determine the structure of the internship and a research project will be conducted in conjunction with the internship.

## **Oral Examination**

The oral examination committee will consist of the student's committee and a dean's representative appointed from the graduate faculty by the dean of the Graduate School. This committee will conduct an oral examination at the conclusion of the research project and no earlier than the candidate's last semester of enrollment.

The examination will consist of a defense of the project along with general questions on subject matter related to the candidate's field of study. Any candidate who fails the oral examination may upon recommendation of the advisor and with the approval of the graduate dean, be granted a second examination after a lapse of at least one semester. Failure in the second examination disqualifies the candidate from obtaining the degree.

#### **Time Limit**

The specialist in education degree must be completed within seven years following admission to the program. Inclusion of any coursework more than seven years old at the time of the final examination will be at the discretion of the department.

# **Doctoral Degrees**

The doctoral degree requires significant scholarly study beyond the master's program.

Prospective candidates are expected to hold bachelors or master's degrees from accredited institutions, based on curricula that include the prerequisites for graduate study in the department of their subject. To be considered for admission to a doctoral program, the applicant must have a grade-point average of at least 3.0. Prospective candidates are urged to consult the department in which they wish to study for information concerning specific requirements.

# Professional Doctoral Degrees Doctor of Economic Development (DED)

Students enrolled in the Doctor of Economic Development are required to complete and pass a comprehensive examination. Since a dissertation is not required, students are expected to complete an internship experience and a project paper as defined by their program. They can embark on the project paper once they have completed and passed their comprehensive examination. Students are not required to take 700 level dissertation hours. However, they are expected to complete at least 12 credits at the 600 level including ECDV 694 Internship and ECDV 699 Doctoral Project.

#### **Doctor of Education (Ed.D)**

The degree of Doctor of Education demonstrates proficiency in a program of graduate study in which the emphasis is in preparation for performance in professional education. This program is intended primarily for students pursuing careers in which teaching, administration or school services are predominate rather than those in research. The Ed.D. Degree in curriculum and instruction is offered in the Department of Curriculum and Instruction; the degree in educational administration is offered in the Department of Educational Leadership and Administration.

The requirements for doctoral degrees in the two departments of the College of Education have the following distinguishing elements:

- The qualifying examination consists of a written and an oral section, both of which are administered prior to admission to the program.
   Acceptance for doctoral admission is equivalent to the successful completion of the qualifying examination. Residency of at least two consecutive semesters cannot commence until the semester after the qualifying examination is successfully completed.
- 2. Comprehensive examinations usually are administered three times annually. The written examination tests the major and related areas of concentration and is administered after successful completion of the orals within two weeks' time. A student who fails any part of the comprehensive examination may present him or herself for reexamination of the failed part of the exam before moving on to the next part.
- 3. The major area of study must be within the College of Education

A minimum of nine credits constitutes the related area. The courses can be taken in any department of the university with the approval of the student's committee. The related area must be specifically planned with the major and minor departments in order for the doctoral fields to be mutually supportive. Any transfer credit or predoctoral course work to be included in the related field must have the approval of both the major and minor department at the outset. Specified course work in both research and statistics is required for this degree. Other requirements are described in the departmental sections of this catalog.

## **Doctor of Nursing Practice (DNP)**

Students holding a Bachelor's degree in Nursing are required to complete and pass all required course work for the DNP program, as well as, complete and pass their comprehensive examination. Since a dissertation is not required, they are expected to complete an internship experience and a project paper as defined by their program. They can

embark on the project paper once they have completed and passed their comprehensive examination. They are not required to take 700 level dissertation hours. However, they are expected to complete at least 12 credits at the 600 level including NURS 698 (Advanced Clinical immersion) credits sufficient to complete the DNP Final Project.

Students who hold a Master's of Science in Nursing are required to complete the following:

- 1. All course work requirements
- 2. Their comprehensive exam (with passing marks)
- 3. The DNP Project.

Post- MSN DNP students must complete at least 6 credits at the 600 level, including NURS 698 credits sufficient to finish the DNP Project. Finalized projects must be uploaded to a national DNP Project repository approved by the Graduate Faculty of the School of Nursing in order to achieve the DNP degree.

#### **Doctor of Philosophy (Ph.D.)**

The Doctor of Philosophy degree requires distinguished attainment in both scholarship and original research. The doctoral degree requires significant scholarly study beyond the master's that is tailored to the needs and interests of the student. The degree is granted in recognition of the candidate's high attainments and ability in the special field, shown by work on the required examinations covering both the general and the special fields. The individualized program of study is designed to meet the campus residency requirement, includes a minimum of 30 graduate credits, and includes the preparation of a dissertation. A candidate for the Ph.D. degree is expected to maintain a higher level of work than the grade-point average of 3.0, plus at least 18 credits of dissertation work (700-level courses).

## **Interdisciplinary Doctorate**

Students interested in pursuing an Interdisciplinary Doctorate (IDOC) degree program must meet with the Graduate School for advisement. The advisement session will include information on completing the IDOC admission application.

The following requirements for admission to the interdisciplinary doctorate degree program are:

- Students wishing to study in the interdisciplinary doctoral degree program must apply and be accepted into a doctorate-granting department.
- A master's degree or equivalent program of study that includes at least 30 credits of graduate course work with a minimum cumulative GPA of 3.0.
- Twelve credits of graduate course work must be completed at NMSU in order to apply for admission into the interdisciplinary doctorate degree program. Additional course work is required for degree completion.
- 4. Evidence of outstanding academic achievement in graduate school.
- 5. A written description of the program concept prepared by the student consisting of:
  - a. Areas in which competency is required
  - b. Purposed readings and course work and how these relate to required competencies
  - c. Objectives and an outline for thesis research
  - d. Justification for not using an existing departmental degree program

- 6. Student must select an advisor from his/her department to help structure and chair a committee consisting of at least five faculty members from the graduate faculty list who are willing to work on the interdisciplinary degree program. The committee must include at least two members from each of the two doctorate-granting departments. The committee chair will convene a meeting to review and approve the proposed program.
- 7. The Graduate School will send an Admission Referral document, signed by all the committee members, to the heads of all the departments from which the student proposes to use more than 8 credits of course work, or from the department which the faculty are requested to serve on the proposed committee.
- 8. Once the Admission Referral document has been approved by all departments, the committee chair will convene a meeting of the committee to review the student's program and make changes as necessary. In addition, the committee will set the format and date for the qualifying exam. An effort should be made to incorporate the interdisciplinary nature of the program into the qualifying exam.
- 9. Students have satisfied the requirements for admission to the program once the qualifying exam has been passed and the respective department heads approve the Admission Referral memorandum. Formal acceptance into a doctoral program may be required in order to receive financial assistance.
- 10. The number of courses required for degree completion will vary depending on the student's program of study, please see the department for more specific requirements. However, Interdisciplinary doctorate degree students must meet the requirements for residency, registration, the comprehensive examination, the Final Examination, the dissertation and the declaration of approved minor.
- The dissertation work shall include at least 18 credits of a 700-level course.

## **Completing your Doctoral Degree Program**

Any student who fails to abide by the regulations in this section will be considered withdrawn from the university. In order to resume their studies, the student must formally apply for readmission to the Graduate School and satisfy any requirements that are in effect at the time of reapplication.

## **Declaration of Approved Minor**

Any doctoral applicant for candidacy may declare up to two approved minors in addition to the major area of study. Demonstration of competency in the minor area will be required at both comprehensive and final examinations.

#### **Qualifying Examination**

Doctoral students must pass a qualifying examination that is scheduled by the student's advisor and is administered by the major department. Its purpose is to determine the areas in which the student shows strength or weakness, as well as the ability to assimilate subject matter presented at the graduate level. A student may not register for dissertation credits prior to the successful completion of the qualifying examination.

The following conditions apply to students who wish to take the qualifying examination:

- For students who enter the Graduate School with little or no previous graduate experience but wish to proceed directly to the doctorate, the qualifying examination should be taken after 12 credits of graduate work
- For students who enter with a master's degree or equivalent from another university, or another department, the qualifying examination

should be taken before the completion of one semester of graduate work.

3. For students who earn their master's degree at New Mexico State University and will continue in the same department, the department may allow the master's final examination to serve as the doctoral qualifying examination or may require a separate examination.

Based on the result of the qualifying examination, the department will take one or more of the following actions:

- 1. Admit the student to further work toward the doctorate
- 2. Recommend that the program be limited to the master's degree
- Recommend a re-evaluation of the student's progress after the lapse of one semester
- 4. Recommend a discontinuation of graduate work

In all cases, the Graduate School shall be notified by the department of the results of the qualifying examination.

Students will be admitted to the doctoral program once the qualifying examination is passed. The student's advisor and department head will then appoint the doctoral committee to prepare the student's preliminary doctorate program of study. The student must submit the program of study to the Graduate School immediately following admission into the doctoral program and before registering for additional coursework.

#### **Doctoral Graduate Committee**

The doctoral committee will be composed of at least four members of the graduate faculty who hold doctoral degrees. The following rules apply to the composition of the committee:

- The committee chair must be from a discipline within the student's major area.
- At least one additional member of the committee must also be from a discipline within the student's major area.
- If an approved minor is declared, at least one (but no more than two) members of the committee must be from the minor area.
- At least three committee members must be members of the graduate faculty and be from a doctorate-granting department
- Only one member may be outside of the student's department.
- One member of the committee must serve as the dean's representative. In programs where more than one department participates, the dean's representative may not be from any of those departments. The dean's representative may be one of the following
  - · the member from the related area
  - a member from the minor area
  - An independent member, not from the student's department, that is appointed by the Dean of the Graduate School.

Departments may structure committees that include more than the minimum number of members, as long as the following conditions are satisfied. No changes can be made to the doctoral committee membership without prior approval from the Dean of the Graduate School.

Additional voting and nonvoting members may be any person approved or appointed by the Dean of the Graduate School

All members of the committee will attend the comprehensive oral and final defense for the student's dissertation.

#### **Program of Study**

Students should file the Program of Study Form once they have:

- Completed 1 year of enrollment while at NMSU that are beyond the master's degree
- · Successfully completed the qualifying examination

The Program of Study Form should be completed and submitted to the Graduate School before registering for any additional courses. The individualized program of study is designed to meet the campus residency requirement and includes a minimum of 30 graduate credits beyond the master's.

If the Doctoral degree requires a dissertation, at least 18 credits of dissertation work must be included. The professional doctoral degree includes a practicum or special project that culminates in a written report which demonstrates a command of the relevant scholarly literature and links it to the specific clinical or practical experience.

# **Comprehensive Examination**

The Graduate School should receive the Program of Study and the Committee for Doctoral Students Form and the Doctoral Qualifying Examination Form.

Students will be admitted to the comprehensive examination only after the following conditions are met

- Completion of adequate course work, to the satisfaction of the major department and the Graduate School
- 2. The graduate committee determines the student is adequately prepared for the examination
- Successful completion of all language requirements (where applicable)

Students must be registered for 3 credits of graduate course work during the semester in which they take the comprehensive examination. A student taking an oral examination during the summer must enroll for at least one credit for that term.

The Doctorate of Philosophy Examination or Professional Doctorate Examination Form must be on file at the Graduate School at least ten working days prior to the proposed date for the examination. The examination must be part written and part oral. The results of the oral examination will be reported to the Graduate School by the Dean's Representative of the committee.

Any student who fails the comprehensive examination may either be terminated from the doctoral program or upon recommendation of the committee and approval of the Dean of the Graduate School, be granted a second examination after a lapse of at least one semester.

NOTE: In general, there should be a time lapse of at least one year between the comprehensive and final oral examination. However, due to the type of research required and the method of administering the written comprehensive in some departments, such a time lapse is not always practical. In all cases there must be one semester between the comprehensive and the final oral examinations.

## **Time Limit for the Comprehensive Examination**

If more than five years have passed since the date of the comprehensive examination, the candidate will be required to take another comprehensive examination before admission to the final examination.

## **Advancement to Candidacy**

Advancement to Candidacy recognizes that the student has demonstrated the ability to sustain a level of scholarly competency commensurate with successful completion of degree requirements. Upon advancement to candidacy, the student is cleared for the final stages of the graduate program which may include a dissertation, project or written examination.

For advancement to candidacy the following criteria must be met

- 1. Successful completion of the comprehensive examination
- 2. Recommendation of the graduate committee
- 3. Approval of the Dean of the Graduate School

Upon receiving advancement to candidacy, students must establish residency and follow the Dissertation Registration Requirements (see Residency Requirements below).

#### **Residency Requirements**

The minimum campus residency requirements for the doctoral degree include enrollment in a minimum of 9 credit hours of program course work, including a minimum of 3 credit hours of dissertation, in at least two semesters of classes taught at NMSU. In some cases the minimum credit hour enrollment for the two semesters required to establish residency may vary based on the instructional delivery of the program, and must have prior approval from the Dean of the Graduate School.

# **Dissertation Registration during Fall/Spring Sessions**

After becoming a candidate, students must continue to register for at least 3 credits of dissertation or graduate course work, each spring/ fall semester until the dissertation is approved by the Graduate School and the dissertation format review has been completed. The total number of dissertation hours must be 18 credits. The doctoral committee can impose additional requirements for courses numbered 700.

A student who fails to abide by these regulations will be considered withdrawn from the university and in order to resume studies, must formally apply for readmission and satisfy the requirements in effect at the time of reapplication.

# **Dissertation Registration during Summer Sessions**

If the final examination is to be held during the summer or the dissertation is to be completed during the summer, students must register for one credit during the summer session in which the final examination will be held or the dissertation will be completed.

### **Dissertation Leave of Absence**

Students may seek a leave of absence from their dissertation. A leave of absence requires that a student must get prior approval from the Dean of the Graduate School, which means the student must receive permission for the leave of absence before discontinuing their formal studies.

#### **Final Examination**

*NOTE:* If more than five years have elapsed since the date of the student's passed comprehensive examination, the candidate will be required to take another comprehensive examination before admission to the final examination.

Every student working toward the doctoral degree will submit a dissertation embodying the results of original research. The dissertation is expected to demonstrate the student's ability in independent investigation and to be a contribution to human knowledge. The dissertation shall display a mastery of the literature of the subject field, present an organized and coherent development of ideas with a clear

exposition of results, and provide a critique of the limits and validity of the student's conclusions.

When a complete draft of the dissertation has been prepared, the student's doctoral committee (appointed after the qualifying examination) will conduct the final examination. The final examination is concerned primarily with the research work of the student as embodied in the dissertation, but it may be much broader and extend over the candidate's entire field of study. The intention of the final examination is to verify that the candidate has a satisfactory grasp of the major subject as a whole and has a general acquaintance with the fields of knowledge represented by the course of study. The final examination is oral and is open to the public.

Every student meeting the final examination qualifications must be enrolled in a minimum of 1 credit hour in order to defend. The final examination must be completed in accordance with the schedule provided in the academic calendar. Ten working days before the examination is taken the department must submit the form requesting this examination to the Graduate School. This form may be found on the Web at http://gradschool.nmsu.edu/graduate-forms/ and is also available from the Graduate School and departmental offices.

Students must ensure that each member of the examining committee receives a copy of the dissertation, no later than seven working days before the date of the final examination.

Any candidate who fails the final oral examination may either be terminated from the doctoral program or upon recommendation of the committee and approval of the Dean of the Graduate School, be granted a second examination after a lapse of at least one semester. Failure in the second examination disqualifies the candidate from obtaining the degree.

### **Finalizing the Doctoral Dissertation**

After successful completion of the final examination, electronic submission of the approved dissertation must be submitted to ProQuest ETD, no later than the deadline posted to the Graduate School website. The format review of dissertation will be performed electronically by the Graduate School. The form and style of the dissertation must comply with the regulations given in Preparing your manuscript for submission located at <a href="https://gradschool.nmsu.edu/doctoral-dissertation-students/">https://gradschool.nmsu.edu/doctoral-dissertation-students/</a>. The dissertation is not complete until the required forms are received at the Graduate School. Required forms may be found at <a href="https://gradschool.nmsu.edu/doctoral-dissertation-students/">https://gradschool.nmsu.edu/doctoral-dissertation-students/</a>.

Registration at NMSU is a process that includes: (1) academic advising with a faculty or staff member, (2) registering for classes, online or with your academic advisor, and (3) paying the tuition and fee bill. For first time freshman and transfer undergraduate students (at the Las Cruces campus), the registration process is through the Aggie Welcome/Transfer Student Orientations. For currently enrolled Undergraduate students and all Graduate students registration is through your advisor or online through the myNMSU portal. For detailed instructions and questions about registration which are not addressed on the website, please contact the University Student Records Office (USRO).

# **Admission Requirement**

No person will be will be allowed to register for courses until formally admitted to NMSU through the Community College, International Programs, Undergraduate or Graduate Admissions processes.

# **Course Schedule**

Each semester and summer session, the University Student Records Office provides an online course schedule which can be accessed through myNMSU or the NMSU website. Note that not all courses listed in this catalog are offered every semester.

# **Registration Schedule by Classification**

Several groups of students (e.g. Crimson Scholars, Students with Disabilities, Veterans) receive priority dates for course registration. For other students, registration dates are determined by the student's current classification at the time of registration. A student's classification is determined by the number of credits completed, and does not include courses in progress. A student's classification depends upon the number of credits completed toward graduation. Sophomore classification is achieved with successful completion of 28 credits; Junior classification, 60 credits; Senior classification, 90 credits.

# **University Credits**

The unit of university credit is the semester hour, which is based upon one hour of lecture class or a minimum of two hours of practice/lab per week during one semester, and assumes a minimum of two hours additional, by the student, outside of class. The number of credits associated with each course is indicated in the course schedule.

# **Course Load for Undergraduate Students**

The full-time course load in a regular semester (fall or spring) for a main campus undergraduate students is 12-18 credits. A full-time course load for a summer term is 9 credits with a maximum of 6 credits per session, totaling no more than 12 credit hours. Some scholarships have a 15 credit course load eligibility requirement. Each student is responsible for meeting their own scholarship eligibility requirements.

An overload is classified as more than 18 credits for a regular semester and more than 12 credits for the summer term. A one-credit course in physical education or supplemental instruction will not create an overload. Registration for a course overload requires written permission from the Director of the Center for Academic Advising and Student Support or the Associate Dean for Academics in the student's college. A "Undergraduate Change of Schedule" form is required and available from the University Student Records Office or on their website. Freshmen and students with a grade of D or F, or a cumulative grade-point average of less than 2.5, in either of the last two semesters, are not eligible for overloads. Concurrent enrollment in non-NMSU courses at other post-secondary institutions requires prior approval from the Associate Dean for Academics in the student's college, and these courses are counted as part of a student's class load.

# **Course Load for Graduate Students**

A full-time course load in a regular semester (fall or spring) is 9 credits, with a maximum of 15 graded credits. A full-time course load for a summer term is 6 credits with a maximum of 9 credits.

# **Course Numbering**

The course numbering system at NMSU indicates the level of the course as follows:

Undergraduate courses are assigned numbers 100-499. Courses numbered 100-299 are referred to as "lower-division courses" and are primarily for Freshman and Sophomore level students. Courses numbered

300-499 are referred to as "upper-division courses" and are primarily for Junior and Senior level students.

Graduate courses are assigned numbers 500 or greater. Courses numbered 500-599 are primarily for graduate students working on a master's degree. Courses numbered 600-700 are primarily for students working on a doctoral degree.

Some graduate programs may accept courses numbered 450-499 for graduate credit. Graduate students should confirm eligibility with their program department head.

# **Prerequisites and Corequisites**

Some courses require advance or concurrently acquired specific knowledge and skills. Prerequisite(s) and corequisite(s) for each courses are indicated in the course description section of this catalog. Students must have completed (or be presently enrolled in the prerequisite(s)) courses in order to register for a course with prerequisites. Where a student was allowed to register for a course while completing the prerequisite(s), and then subsequently fails to successfully complete a prerequisite course, the student shall be dis-enrolled from the course requiring the prerequisite. In the case of a corequisite, a student must enroll in the courses during the same semester. In some instances, where a course has an enforced "pre/corequisite" the student can elect to either take the requirement before registering for the course, or take the courses at the same time.

# **Registration Changes**

Subject to any registration "holds" and any applicable deadlines, students may change their course registration online. Caution should be exercised as registration changes may negatively impact eligibility for scholarships, financial aid or athletic participation, the student's ability to progress through their degree program in a timely manner, and the student's obligations with respect to tuition and fees.

The University Student Records Office publishes an online schedule of "Important Dates for Students" for each semester. The student is responsible for reviewing and adhering to the Important Dates, including the deadlines to add, drop or withdraw from course(s) for the relevant semester.

Adding Courses: There are two different types of deadlines for adding

- Last day to add a class without instructor's signature during this
  period courses may be added online through myNMSU, or through
  your academic advisor (if necessary).
- Last day to add a class with instructor's signature during this period courses may only be added with either the "<u>Undergraduate Change of Schedule</u>" or the '<u>Graduate Change of Schedule</u>' form signed by the instructor (available online on the <u>University Student Records Office</u> website).
  - \* Students taking classes online and who do not live in the Las Cruces Area must email the instructor, using the NMSU email, in order to get permission to be added to the course. If the instructor approves the addition, the approved response must be sent to either the student's academic advisor or to <a href="mailto:registrar@nmsu.edu">registrar@nmsu.edu</a> with the student's name, ID number and course CRN number they are wanting to add

Withdrawing from Courses: There are two different types of deadlines for withdrawing from courses:

- Last day to drop without a "W" grade during this period, the student can drop the course and not have it appear on their official transcript in any form, and the student will have no financial obligation related to the course (students will receive a 100% refund if tuition has been paid for the course).
- Last day to drop with a "W" grade during this period, the student
  can withdraw from the course, but the course will appear on their
  official transcript with the withdrawal (W) designation as the grade,
  and the student will be responsible for the full tuition and fees related
  to that course.

Students are responsible for initiating official withdrawal from any course(s) they do not intend to complete. Students who experience extraordinary circumstances that prevent timely registration changes should consult with their Academic Associate Dean or the Registrar. For more information about the process for adding or withdrawing from a course(s), please speak with your academic advisor or contact the University Student Records Office.

Any student attending under Veteran Educational Assistance must notify the Military and Veteran's Programs office before processing registration changes to determine if changes will affect their enrollment status or benefits.

A student found insufficiently prepared for a course they are enrolled in may be transferred to a more elementary course in the same subject any day before the last day to withdraw from an individual course.

#### Waitlisting

Waitlisting is available for all courses across the NMSU system, except for labs that are linked to a specific lecture class. Waitlisting is an electronic list of students who are waiting to register for a filled course. Once students are put onto the waitlist, the process to get into that course is as follows:

- A currently enrolled student must drop the course for a seat to become available.
- 2. The first student on the waitlist is notified through their NMSU email.
- 3. The notified student has 24 hours to login to their myNMSU and register themselves for the class.
- 4. If the first student fails to register within their allotted 24 hours, then the first student is dropped from the waitlist and the next student on the waitlist is notified. This continues until the empty seat is filled.

A student who fails to register for the class during their allotted 24 hours is automatically dropped from the waitlist and can add themselves back onto the bottom of the waitlist for that course.

Students cannot be added to the waitlist after the first day of classes. Instructor overrides can only be made after the second day of class, at which point the instructor's signature is required on either the "Undergraduate Change of Schedule" or the 'Graduate Change of Schedule' to add a course.

## **Graduate Registration Requirements for Summer**

Students who have scheduled their final examination, or who are completing their thesis during a summer session, must be registered for

one credit hour during the same summer session. In order to graduate during a summer session, the student must have filed the Application for Degree by the deadline posted on the Academic Calendar.

### **Repeating Courses for A Change in Grade**

See the Grading portion of the Academic Regulations section of this catalog.

#### **Substitutions and Waivers**

Students registering for their final semester must have all course substitutions and waivers of required, for their degrees, courses approved before two weeks after the last date of registration for full or summer terms.

#### **Auditing a Course (No Credit)**

An audited course is one in which the student registers for the learning experience but does not seek to earn academic credit for the course. A student seeking to audit a course must register and pay tuition and fees for the course and have the consent of the instructor to take the class in audit form. A student who has registered to audit a course may be dis-enrolled from the course at any time before the registration deadline expires if necessary to accommodate a student taking the course for credit. After the last day to register, the student cannot change the course option from audit course to a for credit bearing course.

Audited courses are not used in determining a maximum class load (overload) for undergraduate students in good academic standing, however, the audited course will be counted as part of the maximum allowable course load for graduate students and undergraduate students who are on academic probation.

#### **Attendance and Student Performance**

Academic success is closely correlated to student participation and attendance. Accordingly, students are expected to regularly attend all their classes. Each course instructor will establish the specific attendance and course requirements. Only students who are currently enrolled in a course for either credit or audit are permitted to officially attend the classes. However, individual instructors may allow an occasional visitor and may allow a student who officially withdrew from the course to continue to attend for the remainder of the semester.

## Absences from Class and Failure to Complete Assignments

Students who must miss class due to accident or illness, or due to other circumstances beyond their control should consult the course syllabus and the instructor for guidance. Students may be administratively withdrawn from a course due to excessive absences (consecutive absences in excess of the number of class meetings held within a week or any number of absences, including failing to use the online Learning Management System, which are impairing the student's performance), or for persistent failure to complete assignments. In such cases, the Instructor may recommend administrative withdrawal by providing a completed "Student Absence/Lack of Progress Report" form to the Academic Associate Dean. If the Academic Associate Dean agrees with the recommendation of the course instructor, the student will withdrawn from the course. Any student who has been administratively withdrawn from a class may appeal that decision to the Dean of the College where the course was offered within 10 days after notification of the withdrawal.

Any absences due to the student's participation in a university sponsored event (e.g. ASNMSU president representing NMSU at legislative session, student athletes competing in NMSU scheduled athletic events, or students attending educational field trips and conferences) will be excused and deemed an "Authorized Absence". Authorized absences do not relieve the student of the course assignments or responsibilities and instructors may require students to complete course work before the absence. Prior to the student's absence, the sponsoring department will provide the instructor with written notice of the dates of expected absence.

#### **Classroom Conduct**

Each instructor has the authority to establish and enforce reasonable rules of conduct in their courses. A student who engages in behavior that interferes with the educational environment of the class may be administratively dis-enrolled with the approval of the academic department head and academic associate dean for the course, and with notification to the Provost. Any student who has been administratively dis-enrolled from a class may appeal that decision to the Dean of the College where the course was offered within 10 days after notification of the dis-enrollment.

#### **Student Performance Assessment**

Individual student performance and learning outcomes in a course are measured and evaluated by the course instructor and reported to the student in the form of grades. Each instructor has the authority to establish assignments and other assessments (such as exams and quizzes) and to assign grades based on the student's performance on those assessments. Final grades for the course are determined by the instructor and reported to the University Registrar as described in grading section of this catalog. Any student who believes that their academic performance has been evaluated unfairly may appeal the grade through the University's Academic Appeals process as provided in this Catalog.

#### **Academic Program Assessment**

New Mexico State University is committed to providing its students with a quality education and a supportive learning environment. Academic Program Assessment is a continuous improvement process achieved by identifying a program's desired learning outcomes, evaluating the extent to which those outcomes are collectively achieved by students in the program, and then implementing changes to enhance and improve the collective program outcomes. For assessment to be effective, students must be actively aware of and engaged in assessment activities.

Academic Program Assessment requires participation of students who are expected to provide feedback on personal, professional and academic development and to participate in a variety of assessment exercises. Assessment activities may be a part of regular graded course assignments, or may require students to engage in other activities. Assessments may include course projects, exams, exit interviews, standardized tests, surveys, focus groups, etc. Data gathered through these assessments is published only in aggregate form. Learn more about NMSU's Academic Program Assessment at <a href="https://assessment.nmsu.edu/">https://assessment.nmsu.edu/</a>

#### **Exam Week and Final Examinations**

NMSU designates the last week of each semester as "Exam Week" during which each course has only a single 2 hour meeting time for a mandatory culminating activity which may be a final examination or some other course related activity. The University Student Records

Office (USRO) establishes the Final Examination Schedule for each semester (<a href="http://registrar.nmsu.edu/final-examination-schedule/">http://registrar.nmsu.edu/final-examination-schedule/</a>). Examinations are typically held in the course's usual lecture/lab room. Some departments hold Departmental Exams where all students for all sections of a particular course are required to take the final examination simultaneously. The date, time and location of the Departmental Exams are indicated on the Final Examination Schedule. For courses that were not scheduled to meet at the specific times listed under "Regular Class Time" on the USRO's Final Examination Schedule, the instructor and course department coordinate examination dates, times and locations with NMSU's Academic Scheduling office (575) 646-4790. Final exams for weekend courses are held at the regular class period on the last day of class.

The final exam or culminating activity must not be rescheduled for a different date, time or location, except with permission of the department head and the unanimous consent of the enrolled students. During the week before Exam Week, instructors are not allowed to hold examinations lasting more than one class period.

Any student having more than three examinations scheduled in any one day may, no later than the week prior to exam week, notify the instructor of the examination scheduled latest in the day to obtain an alternative date for that examination. (If the fourth exam is a departmental exam, the instructor of the third exam will make alternate arrangements for that exam upon request.)

Students who believe that their instructor(s) have not honored Exam Week requirements may appeal to the instructor's department head.

### **Developmental Evaluation**

The academic skill level of all entering first-time students at the time of registration is evaluated based upon ACT scores, SAT test scores, and/or alternative placement assessments. The student's eligibility to enroll in university level English and Mathematics courses is dependent upon this evaluation. Students who have not demonstrated adequate preparation for university level courses are required to take developmental courses. Developmental courses are included on the transcript and will be included in the calculation of the GPA, but the developmental course credits do not count towards a degree.

#### **Basic Academic Skills**

All undergraduate students must demonstrate Basic Academic Skills in both English and mathematics before enrolling in any upper-division course (numbered 300 or higher). These requirements ensure that each student in the upper-division courses has the ability to succeed without compromising the learning experience of other students. The completion of the Basic Academic Skills requirements does not necessarily result in the award of academic credit nor satisfaction of university general education requirements in English and mathematics. (Students should consult the General Education Courses and Requirements section in this chapter for these requirements.)

Transfer students with 45 or more credits are allowed to enroll in upperdivision courses for only one semester before satisfying the Basic Academic Skills requirements. The Basic Academic Skills requirements may be satisfied in a variety of different ways as listed below:

## English Basic Skill Demonstration Options (achieve one of the following):

- · ACT English Score of 30
- Coursework ENGL 1110G, or equivalent, completed with a grade of C- or higher.

Equivalents: the following are deemed equivalents to ENGL 111G for the purpose of satisfying Basic Academic Skills in English:

- ENGL 1110H completed with a grade of C- or higher
- ENGL 1110M required for International students who took the TOEFL examination
- CLEP Exam score of 57 or higher in freshman college composition
- · English Advanced Placement (AP) Exam score of 3, 4, or 5
- English Composition Transfer Credits 3 or more credits with a grade of C- or above, transferred from accredited postsecondary institutions (International students may be required to take ENGL 1110M Composition I Multilingual as noted above.)

Credits from Non-accredited Institutions - As a general rule, NMSU does not accept credits from non-accredited institutions. Students with 3 or more credits of college-level English composition with a grade of C- or higher from a non-accredited institution may, however, challenge the Basic Academic Skills requirement in English and ENGL 1110G Composition I course requirement by submitting a theme paper written under the supervision of, and demonstrating achievement of ENGL 1110G Composition I learning outcomes as determined by, the Department of English.

## Mathematics Basic Skill Demonstration Options (achieve one of the following):

- · ACT Mathematics Score of 23
- Coursework any one of the following courses or course combinations completed with a grade of C- or higher in each course:
  - MATH 1130G Survey of Mathematics
  - · MATH 1215 Intermediate Algebra
  - · MATH 1220G College Algebra
  - Any mathematics course numbered 1250G or above (prefix MATH) excluding MATH 1996 Topics in Mathematics and MATH 2992 Directed Study
- Basic Skills Exam Passing Score offered twice a semester by the Department of Mathematical Sciences
- Calculus AB, Calculus BC or Statistics Advanced Placement (AP)
   Exam score of 3, 4, or 5

IMPORTANT NOTE: Basic Academic Skills Demonstration fulfillment options may not appear on the transcript, result in the award of academic credit, or satisfy general education requirements. The Basic Academic Skills requirements are used solely for the purpose of determining eligibility for enrollment in upper-division courses. All students should seek to complete the Basic Academic Skills requirements as early in their academic program as possible. Students who postpone completion of Basic Academic Skills may be unable to progress toward degree completion in a timely manner.

## Independent Study and Directed Reading Courses

Independent study courses and directed reading (other than those designated in the catalog with a subtitle), are for students capable of and sufficiently motivated to undertake self-directed study with limited oversight of a faculty member. Only students who have completed at least 28 credits at NMSU under traditional grading, with a cumulative GPA of 2.5 or better, are eligible to enroll independent study courses. No student is entitled to enroll in independent study and enrollment requires the consent of an instructor who agrees to supervise and evaluate the student's learning activities in the course. Students seeking enrollment in an independent study course should prepare an independent study proposal to present to individual faculty member(s) in the relevant discipline for consideration. At a minimum, the proposal should include the topic of study, a brief survey of the literature or other resources on the topic, and a description of the proposed written product or other tangible outcome of the independent study. The relevant academic department for the discipline may have additional requirements. Each college determines the maximum number of credits that may be earned in independent study courses.

### **Adjusted Credit Option**

The adjusted credit option provides eligible undergraduate students who earned a low grade-point average (less than 2.0 cumulative) during their first few semesters to reset their GPA calculation. This option may be used only once and is not reversible. These are the consequences of exercising the Adjusted Credit Option:

- 1. All of the student's academic history pre-dating the request, including all NMSU course credits previously attempted or completed, transfer coursework, CLEP, ACT, advanced placement, special examination, and/or military service are included in the adjustment and designated as "ADJUSTED CREDITS" on the transcript. These credits are no longer be included in the calculation of the cumulative grade point average.
- Courses carrying an academic grade of S, CR, C- or better, earned prior to the grading period in which the student requested this option, are treated as earned academic credit and need not be repeated, except where a higher grade is required in the student's academic program.
- Courses carrying an academic grade of U, CD, D or F, earned prior to the grading period in which the student requested this option, remain on the student's transcript, but no academic credit is provided for these courses. The student must repeat these courses to obtain academic credit.
- 4. The student's academic transcripts will continue to reflect all coursework, including courses falling under the adjusted credit option. In no circumstances will a transcript be issued that does not include all courses attempted at this university.
- The student's current academic status, eligibility for employment, and financial aid may be impacted. Probationary status and eligibility for on-campus employment are not affected by the exercise of the adjusted credit option.
- 6. The repeat rule for courses starts anew.
- The student will not be eligible for award of an associate degree until earning thirty (30) or more additional credits after exercise of the Option.
- 8. The student is eligible for University honors at graduation upon completing a minimum of 60 academic credits at NMSU, after the

adjusted credit option is exercised, with a resulting grade point average which satisfies University regulations for honors.

After carefully considering the consequences indicated above, eligible students may exercise the Adjusted Credit Option by paying a fee of \$10 and submitting an adjusted credit option application to the University Student Records Office. Application forms are available on the University Student Records Office website and can be approved by the Director of the Center for Academic Advising and Student Support or the Associate Dean for Academics in the student's college or the Academic Vice President at the Community Colleges. Only students meeting the following criteria are eligible to exercise the Option:

- 1. No awarded baccalaureate degree
- 2. Enrolled as a degree-seeking or non-degree undergraduate student
- 3. Cumulative grade-point average of less than 2.0 at NMSU
- 4. Fewer than 60 credits accumulated (including both transfer and NMSU credits)

## Credit by College Level Examination Program (CLEP)

Prior to or during a student's enrollment at NMSU, credits may be earned through the College Level Examination Program (CLEP) of the College Entrance Examination Board. CLEP is a national program of credit by examination that offers the opportunity to earn credits for college level achievement wherever or however the student learned. Earned CLEP credit will be treated as transfer credit without a grade, will count toward graduation, and may be used in fulfilling specific curriculum requirements. A current NMSU CLEP policy as well as test schedule information is available through Testing Services DACC East Mesa, RM 210. Testing Services may be reached at: (575) 528-7294.

#### **Credit by Examination**

Any enrolled student with a cumulative GPA of at least 2.0 currently attending classes may, with permission of the appropriate department, challenge by examination any undergraduate course in which credit has not been previously earned except an independent study, research or reading course, or any foreign language course that precedes the final course in the lower-division sequence. The manner of administering the examination and granting permission shall be determined by the department in which the course is being challenged. Students may not enroll in a single course, challenge it by examination, and drop it during the drop/add period, unless they enroll in an additional course. In exceptional cases in which a student demonstrates outstanding ability in a course in which he is already registered, he may be permitted to challenge the course. A student desiring to apply for special examination may obtain the necessary forms from the University Student Records Office. The fee for challenging a course is the same as the approved tuition rate. Courses may not be challenged under the S/U option. The special examination privilege is based on the principle that the student, exclusively, has the responsibility for preparing for a special examination.

### **Credit for Military Service**

New Mexico State University will award academic credit to United States military personnel for courses and Military Occupational Specialties (MOS), based on the American Council of Education Guide (ACE) as well as through national standardized tests, such as CLEP, AP, PEP and DANTES. Credit for military-training is in accordance with NMSU Faculty Senate Legislation Proposition 24-07/08, which was passed in May 2008. Military Training and Military Occupational Specialties (MOS) must have

a recommendation evaluation by ACE (in the ACE Guide) for credit to be awarded. Courses accepted for transfer credit become part of the student's official NMSU transcript and academic record. If a student wishes to appeal a decision regarding the acceptance of military training/education and/or MOS for academic credit, the student must submit a written statement of appeal to the Dean of the College to which the student has applied. The Dean will review the merits of the appeal and render a decision. The decision of the Dean is final.

Only Primary MOS (s) are eligible for academic credit in the initial review and evaluation. Credit for Duty and/or Secondary MOS may be eligible for academic credit if the student petitions the college's Associate Dean. Primary MOS is the primary specialty of a soldier and reflects the broadest and most in-depth scope of military experience. Veterans, active-duty personnel, National Guard and Reservists who are current students or students applying for admission to New Mexico State University may be granted academic credit on a case-by-case basis upon evaluation of military transcripts - the Joint Service Transcript (jst.doded.mil) and the Community College of the Air Force transcripts. Course equivalencies and credit hours awarded for a particular NMSU degree are determined by colleges and/or academic departments. Credit hours may be awarded for specific courses toward degree requirement, or as elective credit. The number of credit hours awarded will be determined by the college and/or academic department.

NOTE: Students submitting military transcripts for credit evaluation must keep in mind the Maximum Time Frame policy. See Financial Aid Section.

#### **Graduate Course Deficiencies**

Students who have been admitted with departmental deficiencies may be required to take diagnostics tests and additional qualifying examinations. They must complete satisfactorily, in a manner specified by the major department, all undergraduate course deficiencies as prescribed by the department responsible for the graduate program. Courses taken to satisfy deficiencies will be listed on the undergraduate transcript; however, these course grades will not be calculated in the student's graduate GPA or graduate hours. With the permission of the student's advisor and the head of department, courses to meet undergraduate deficiencies may be taken under an S/U option (with S being a grade satisfactory to the professor), and such courses will not affect the maximum number of S/U graduate credits permitted.

#### **Short Courses for Graduate Students**

Short course(s) that are numbered 450 and above have been approved to carry graduate credit. Graduate students must be registered for the short course(s) to receive graduate credit. Concurrent enrollment of graduate students in regular and short courses for the fall/spring semesters is allowed, provided the combined total credits does not exceed 15. All short courses carrying one semester credit will be graded on an S/U basis and these credits will be counted toward the student's limit of S/U credits.

### **Challenging Graduate Courses**

A graduate student may challenge a graduate course by examination, please see the Graduate School for more information.

### **University Grading System**

Each course department or instructor establishes the system for assessing student performance in achieving course learning objectives. Students should consult the course syllabus for a description of the

grading system used in each course. At the conclusion of each course, instructors are required to report a final grade reflecting the instructor's assessment of each student's performance. Shortly after the end of the term, students can access their grades through the MyNMSU portal. No other grade notification will be issued. The final grade is reported on the student transcript. Instructors may elect whether to use fractional grading (the use of the plus and minus) in assigning final letter grades.

The NMSU system for final grades is expressed in letters, which carry grade points that are used in calculating the cumulative grade-point average, as shown in this table:

Letter Grade	Grade Points per Unit of Credit
A+	4.0
Α	4.0
A-	3.7
B+	3.3
В	3.0
B-	2.7
C+	2.3
C	2.0
C-	2.0
D+, D, D-	1.0
F	0
W- Withdrawal	0
N- Grade not submitted	0
CR- Credit authorized, but not letter grade	0
IP- In progress	0
RR- Progress in undergraduate course	0
PR- Progress in graduate thesis	0
S- Satisfactory work <sup>1</sup>	0
U- Unsatisfactory work	0
I- Incomplete work	0
AU- Audit	0

S grades are grades that are satisfactory to the professor and are normally equivalent to the letter grade of C- or higher.

Any courses for which only CR, S or PR is awarded, but no traditional letter grade is given, will be included in the total number of earned hours but is not computed in the grade-point average. Traditional letter grades are those which are used in the grade point average determination: A+, A, A-, B+, B, B-, C+, C, C-, D+, D, D- and F. In computing the overall grade-point-average, the total credits in which grades of A+ through F have been assigned is divided into the total number of grade points earned.

## Midterm and Six-Week Early Performance Grades

A Six-Week Early Performance Grade (sometimes referred to as Midterm Grade) for courses numbered 100-299 will be posted and available to students through the MyNMSU portal. The purpose of the early grade posting is to ensure that students have an opportunity to address any performance issues. Students should be mindful that the Six-Week Early Performance Grade reflects a students' performance on only that portion of the total coursework that has been graded at that time. Any student who is doing poorly, or not as well as they would like, should meet with

the instructor to discuss how they can improve. Students who have concerns about their progress in multiple courses or who are considering withdrawal from course(s) must meet with their academic advisor.

In courses numbered 300 or higher, the posting of Early Performance Grades is optional and may occur through the online course management system rather than the MyNMSU portal. However, prior to the last day to withdraw from a course, upon request, instructors will provide information to students about their progress in the course.

### **Retention of Grading Records**

Individual assignments and exams that are not returned to students should be retained by the instructor or department through the end of the subsequent regular semester. The records used to compute individual final grades should be retained for two years after the completion of a course. If a final grade is appealed, these records are kept for at least two years after the completion of the appeal. Departments, colleges or the library may require that records be kept for longer periods.

### Minimum Grade Requirement for Undergraduate Students

Undergraduate degrees require a cumulative GPA of 2.0 or higher for degree completion. Although D+, D, or D- can be considered passing, some departments have higher grade requirements for the courses within their program and/or their program as a whole. Students should check with their departments regarding specific course grading requirements for their particular degree program.

## Minimum Grade Requirement for Graduate Students

Graduate degrees require a cumulative graduate G.P.A. of 3.0 or higher. Although B- and C grades (including C+ and C-) earned at NMSU may be counted toward the requirements for a graduate degree in some programs, this grade does not reflect acceptable graduate-level performance and may cause the cumulative G.P.A. to fall below the 3.0 required for graduate students. Some departments have higher grading requirements for courses in their programs. Students should check with their departments regarding specific course grading requirements for their particular degree program.

Courses in which a student earns a D or F grade do not ever satisfy graduate degree requirements; however these grades will be calculated in determining the students' cumulative grade-point average. To obtain academic credit, students must retake courses in which a grade of D or F was earned.

#### S/U Grading

S/U grading allows the student to attempt to earn course credit without having a course grade included in their grade point average calculations. Under S/U grading, the instructor assigns an S grade for satisfactory achievement of the course learning objectives (normally equivalent to the letter grade of C- or higher) and a U grade for unsatisfactory performance in the class.

#### **Designated S/U Courses**

Each academic college may designate courses in which the grading will be on a basis of S or U for all students enrolled in the courses. Credits in designated S/U courses are not included in the limitations on the number of S/U credits a student may take, and are not subject to the student eligibility requirements described below.

#### **Election of the S/U Grading Option - Undergraduate Students**

In courses other than those designated as S/U for all students, eligible individual students may elect the S/U Grading Option, subject to the regulations stated below. To be eligible for the S/U (satisfactory/ unsatisfactory) Grading Option, undergraduate students must meet the eligibility requirements and obtain approval of an academic advisor. Eligibility requires completion of 28 credits at NMSU under traditional grading, with an overall average of 2.5 or better. (Upon approval of the adjusted credit option, students must re-establish eligibility.) Nondegree seeking students may take courses under the S/U option without regard to eligibility requirements. However, these courses may not be subsequently applied toward an undergraduate degree at NMSU.

The S/U option must be elected as part of the course registration and may not be added once the course registration period closes. Other than honors courses and courses officially designed as S/U, the following limitations apply to courses in which the S/U option is elected:

- 1. No more than 7 credits per semester or 4 credits per summer session.
- 2. Not to exceed a total of 21 credits towards a degree.
- 3. Not a required course for the student's major.

Students electing the S/U option should be mindful that upon a change of majors, the new major department may require a traditional grade for a course within that major that was previously completed with an S grade. In such cases, the student may request that the original instructor process a change of grade form to apply a traditional grade, however, if more than 2 years have elapsed or if the instructor is no longer at NMSU, such a change will not be possible and the student may be required to retake the course or obtain a traditional grade through a course challenge.

**Election of the S/U Grading Option Election - Graduate Students** With an approval from their advisor and department head, graduate students in good academic standing may elect the S/U option, at the time of registration, for courses taken outside the major department, subject to the regulations stated below:

- No more than a total of 6 credits of elected S/U courses are permitted in the master's degree.
- Doctoral candidates may take an additional 6 credits under the S/U option after application to candidacy.

### I Grade Designation

The letter grade of I (incomplete) is given for passable work that could not be completed due to circumstances beyond the student's control that develop after the last day to withdraw from the course. In no case is an I grade to be used to avoid the assigning of D, F, U or RR grades for marginal or failing work. Examples of appropriate circumstances include documented illness, documented death or crisis in the student's immediate family, unexpected military deployment and similar circumstances. Other job related circumstances are generally not appropriate grounds for assigning an I grade. Students requesting an I grade are responsible for providing satisfactory evidence of such circumstances. (In the case of medical records, instructors should review the information provided, note that adequate medical documentation was provided for review, and return the documentation to the student. Under no circumstances should the instructor retain any medical records or indicate the specifics of any medical condition in the academic records.)

The refusal to grant an I grade may be appealed in the same manner as any other final grade.

To assign an I grade, the instructor must complete the "I grade Information Form" and have the form delivered to the associate dean of the course college. The instructor must indicate on the form whether the student will be given the option to complete the remaining coursework and have the I grade changed to the earned letter grade. If so, the instructor should indicate the steps necessary to complete the remaining coursework. The I grade form should either be signed by the student in person, or the associate dean must send a copy of the document to the student's official permanent address, as recorded in the University Student Records Office, with a notation on the form that the student was not available for signature.

The I grade will be permanent in instances where (1) the instructor did not provide an option to complete the coursework, (2) the instructor left NMSU prior to completion of the coursework and grade change, or (3) the student failed to complete the coursework by the relevant deadline, and the instructor did not indicate that the I grade would be changed to the earned grade upon failure to complete. In such instances, the student will be required to re-enroll in the course to receive credit (in which case the permanent I grade and the subsequent earned letter grade will both appear on the transcript).

The student is entitled to have the I grade removed from the transcript only if, within 12 months or any earlier deadline established by the instructor on the "I Grade Information Form" and prior to graduation, the student completes the remaining coursework, as specified on the Form, in a manner satisfactory to the instructor. If the student fails to complete the coursework, the instructor may change the I grade to any appropriate grade (including D, F or U) only if the instructor stated that this would occur on the "I Grade Information Form." The instructor should assign whatever grade was earned for the entire course.

To change the I grade, the instructor must complete a "Change of Grade Form," obtain the signature of the associate dean for the course, and submit the form to the University Student Records Office.

#### **RR Grade**

The RR grade may be assigned only in undergraduate developmental courses (CCDE, CCDL, CCDM & CCDR) and indicates that the student has made substantial progress toward completing the requirements of the course. It carries neither penalty nor credit, so a student must re-enroll and successfully complete the course in order to earn credit. The grade of RR may be received only once in any given course, and is a permanent notation on the student's transcript.

### **W Grade Designation**

The W grade is assigned only in courses when the student withdraws or is administratively dis-enrolled from the course after the last day to drop the course. The W grade is permanent.

### **Effect of Change of Grade**

The effect of a change of grade on a student's academic standing (academic warning, probation or suspension) depends on the date the transaction is officially recorded on the student's academic record. If the transaction is recorded before the student begins another semester, the grade change (such as replacing the I grade with an earned grade) is included in the grade-point average calculation in order to establish the student's academic standing. If the transaction is recorded after the

student begins another semester, for the purpose of calculating academic standing, the new grade is included with any other grades earned for the semester in which the grade change is processed.

#### **Repeating Courses for a Change in Grade**

Undergraduate students: may repeat courses, for a change in grade, when the original grade earned was a D or F. Once a grade of C- or better is earned, the course will then be substituted in the calculation of the grade-point-average and students will no longer be able to repeat that course for change of grade purposes. Student transcripts will continue to show the grade awarded for each course attempt. If the student's original grade was a D and he/she repeats the course, but receives a F, the second grade will not be substituted for the original.

**Graduate students:** may repeat courses to achieve a higher grade, but the grade assigned for each attempt will remain on the transcript and will be counted in the grade point average calculation.

#### **Grade Point Average**

Grade point average (GPA) calculations are based solely on courses taken at NMSU or under an approved National Student Exchange.

#### **Grading in Graduate Research**

In grading both master's and doctoral research, thesis and dissertation work in progress, the instructor reports for each enrollment period the grade PR (progress) or U (unsatisfactory) rather than a traditional letter grade. These assigned grades are permanent notations on the student's transcript. Only those credits graded PR (Progress) accumulate toward the minimum number of research credits required.

PR indicates that the student has devoted an adequate amount of time to the work scheduled but does not indicate the quality. U indicates that the student has stopped work or is doing work of unacceptable quality.

At the conclusion of the final oral examination, or when the thesis/ dissertation is submitted for the final signature of the graduate dean, the instructor will report the final S or U grade for that semester. If the thesis/ dissertation and the performance in the final oral examination are found to be acceptable, the instructor will report an S (satisfactory) grade. If the thesis/dissertation or the performance in the final oral examination is found to be unacceptable, the instructor will report an U (unsatisfactory) grade.

If a student accumulates a total of two U (unsatisfactory) grades in courses numbered either 598, 599, 600, 699 or 700, the student will be placed on provisional status. If three U (unsatisfactory) grades are reported for these courses, the student will be dismissed from the Graduate School.

#### Withdrawal from a Single Course

Any student wishing to formally withdraw from a single course, after the last day to drop has passed, can do so through their Academic Advisor or the University Student Records Office. All such withdrawals will be registered on the student's transcript with the "W" grade indication.

For students wishing to withdrawal from all courses, please see the section on Withdrawal from NMSU.

#### **Leave of Absence from the Graduate School**

Students who are working on advanced degrees and plan to have an interruption in studies, for a calendar year, should request for a leave of absence through their department head. The student must submit a formal letter through their department head to the Dean of the Graduate School, an email will not be accepted. The request should include the beginning date and the anticipated ending date for the period of absence.

A graduate student on leave of absence will be expected not to use university facilities and place no demands upon the university faculty and staff, and, therefore will pay no fees. Time spent in the "leave-of-absences" status will not be counted toward the advanced degree time limits.

A graduate student who fails to register for one calendar year without obtaining a leave of absence from the Graduate School will be considered withdrawn from the university, by the Graduate School. In order to resume their studies after such absences, the student must go through the formal readmission process.

#### **Administrative Withdrawals**

In the event that a student has stopped either attending class without formally withdrawing or stopped using the online Learning Management System, the University reserves the right to remove the student from the class by means of an administrative withdrawal

An administrative withdrawal is initiated for a student who is representing the university at an official out-of-town event and becomes effective when the student returns from the event or five class days after the signed drop slip gets to the dean's office.

#### **Military Withdrawal**

New Mexico State University understands that our military and Veteran students may be called to active duty, specialized training, or disaster relief efforts with little notice. U.S. active duty military students wishing to withdraw from all their classes must present their orders and their request for full withdrawal, as indicated below. However, the below policy does not pertain to a student's basic and/or annual training. A student who has an order for training is encouraged to formally request, through the proper military chain of command, a postponement of their orders until the summer or the end of the semester they are currently enrolled in. If a student's request for postponement is denied, the student may then follow the below steps but must provide documentation that their postponement request was formally denied.

All NMSU students that have been called up for active duty must take the following steps in order to withdraw from all their classes:

- Military and Veterans Programs (MVP): VA students ordered to Active
  Duty must provide a copy of orders to the MVP office, in Corbett
  Center Student Union, Room 244. To assist in reporting accurate
  information to the VA Regional Office, student should also provide, in
  writing, last day of class attendance.
- NMSU University Student Records: All students presenting their orders to the University Student Records Office, (575) 646-3411, will receive a military withdrawal from classes and a full tuition and fees refund for that semester.
- Bookstore: Students who still have their receipts for textbooks purchased the semester in which they are called to active duty will be

given a full refund for these textbook purchases when they present their orders. (575) 646-4431.

#### Student Medical Withdrawal

A student medical withdrawal applies to a student who becomes seriously ill, injured or hospitalized and is therefore unable to complete an academic term for which they are enrolled. This action applies to all courses a student is registered for in the affected semester(s). The student cannot select which courses they want to withdraw from and which they want to remain registered for when exercising this option. The students' attending physician must provide a letter, on official letterhead with an original signature, stating the date(s) within the semester that the student was under medical care and must withdraw because of that medical condition. This letter must be submitted within the semester or no later than one academic year after the end of the term for which the withdrawal is being requested.

Once the information is reviewed a final determination will be made if the student is eligible for the consideration of tuition or other refunds (students receiving funds awarded by the University Financial Aid and Scholarship Services should be aware of policies regarding withdrawal from the University). At the Las Cruces campus, medical withdrawal begins and ends at the University Student Records Office. At all other campuses, medical withdrawal begins at the Student Services Office but is ultimately finalized with the University Student Records Office on the Las Cruces campus.

## **Medical Conditions of a Family Member Withdrawal**

A student who is withdrawing because of a medical condition of an immediate family member must submit a letter from the family member's attending physician. This action applies to all courses a student is registered for in the affected semester(s). The student cannot select which courses they want to withdraw from and which they want to remain registered for when exercising this option. It must be on official letterhead with an original signature, stating the date(s) within the semester that the student's immediate family member was under medical care and that the student must withdraw to attend to the immediate family member's medical condition. This letter must be submitted within the semester or no later than one academic year at the end of the term for which the withdrawal is being requested.

Immediate family member, in this instance, includes a spouse; a domestic partner, as defined in the NMSU Policy Manual 7.04; a child, parent or legal guardian; a sister or brother and a grandparents or a grandchild. Familial relationships that are created by law are also included (i.e. mother/father in law; half or step siblings); any other relationships can be considered on a case-by-case basis.

Once the information is reviewed a final determination will be made if the student is eligible for consideration of tuition or other refunds (Students receiving funds awarded by the University Financial Aid and Scholarship Services should be aware of policies regarding withdrawal from the University.) At the Las Cruces campus, medical withdrawal begins at the University Student Records Office. At all other campuses, medical withdrawal begins at the Student Services Office.

#### Withdrawal from NMSU

Withdrawal from any NMSU campus is an official procedure that must be:

- 1. Initiated by the student (using the Withdrawal form)
- 2. Have all necessary signatures (as indicated on the form)
- 3. Be approved and processed through the University Student Records Office, located on the Las Cruces Campus

Students who withdraw from all courses for the semester should do so in person through the University Student Records Office. However, students who are unable to come in person may submit an e-mail using their NMSU e-mail account to <a href="mailto:records@nmsu.edu">records@nmsu.edu</a> (). Students who leave without following the official procedure are graded appropriately by the instructor.

Applicable dates for the last day to withdrawal are published on the approved university academic calendar or under important dates at: <a href="http://registration.nmsu.edu">http://registration.nmsu.edu</a>.

A student who withdraws from all classes for the semester will retain access to their NMSU account per current policy but will lose access to other services and privileges available to enrolled students.

Financial information concerning drops and withdrawals can be found at <a href="http://uar.nmsu.edu/withdrawals/">http://uar.nmsu.edu/withdrawals/</a>. Financial Aid Recipients should contact University Financial Aid and Scholarship Services before withdrawing. Students receiving funds awarded by the University Financial Aid and Scholarship Services should be aware of policies regarding withdrawal from the University.

The Federal Higher Education Act requires the University to calculate a Return of Federal Student Aid Funds for students who withdraw (officially or unofficially) from all classes on or before the 60 percent attendance point in the semester. Using a pro-rata schedule, the percentage of the semester attended is used to calculate the amount of the student's earned versus unearned Federal student aid funds. The unearned portion of Federal student aid funds will be returned to the appropriate aid program(s). Students withdrawing from classes are responsible for payment of any balance due after the required return of Federal student aid funds.

#### **Graduation Requirements**

For specific graduation requirements for any degree offered at NMSU please see the <u>Degrees, Majors, Minors and Other Academic Programs of Study</u> section, as well as the departmental sections for those requirements. These requirements will include the minimum GPA, total credits and specific course requirements for graduation.

#### **Applying for a Degree**

Any students that are in their final semester of classes are considered degree candidates and are required to submit an "Application for Degree" as well as pay graduation fees for each degree being sought. The application for Degree form is available online through the MyNMSU website. It must be completed and submitted by the designated deadline for that semester. The fees for the Las Cruces campus are all listed in the Tuition, Fees and other Expenses section of the catalog, once a student submits the application the fee will be included in the total cost for the semester or session in which the candidate anticipates completing their degree requirements.

If degree requirements are not completed during the semester/ session the student originally applied for, the student must then reapply and pay the appropriate fees. A \$50 late fee applies to applications received after the application deadline, and no applications will be accepted after the posted deadline date.

A student must specify which catalog they are using for their degree requirements in order for the university to determine if the requirements are met and if a degree can be certified. The latest date for substitution or waiver of required courses for degree candidates is two weeks after the last date of registration for full or summer terms.

## Attendance at the Commencement Ceremony

Commencement is a symbolic ceremony. Participation in commencement does not, in itself, mean that a student is considered an NMSU graduate. In order to be awarded a degree, a student must fulfill university requirements as determined by academic colleges. The degree will reflect the graduation date from the application for degree in which all degree requirements were determined by the academic colleges.

The academic colleges will confirm the students eligibility to participate in the commencement ceremony that is held at the close of the fall and spring semesters. Eligible candidates who are in the process of completing their final degree requirements and degree recipients from the previous summer session will participate in the fall ceremony. Students who are in the process of completing their final degree requirements in the spring must attend the spring ceremony. However, Bachelor degree candidates that wish to participate in a spring commencement, prior to completing degree requirements in summer school may do so if they meet the following conditions:

- 1. Receive permission from the Dean of their college
- 2. Show a minimum cumulative grade-point average of 2.0
- 3. Only need 12 or fewer credit hours to complete their degree requirements
- 4. These remaining credit hours must be offered in the upcoming summer schedule of classes
- Submit a degree application and approved petition form (available in the Dean's office) by the last day to apply for a degree in the spring semester.

## **Academic Regalia**

Each college may approve distinctive symbols to be worn by the top 10 percent of its graduates at commencement. Only one symbol may be worn by each graduate. In addition, the student with the highest honors in each college may wear a crimson-colored gown. No other symbolic additions to academic regalia are allowed without the approval of the Academic Deans Council.

#### **Diploma**

All fees and bills owed the university must be paid in full before a student may receive a diploma or official transcripts. The degree title and major(s) will be printed on the diplomas, in accordance to the degree application award, determined by the academic colleges. Academic honors will also be printed on the diplomas below the degree and major(s). The name on the diploma will reflect the student's current official NMSU records. Name changes are only processed for currently admitted students.

Diplomas will be mailed to graduates approximately eight weeks after the individual colleges certify the degree requirements and the final grades have been processed by the University Student Records Office. The diploma will be mailed to the address specified on the degree application,

unless an address change was requested before the last day of the semester

#### **Undergraduate Academic Standing**

When a student does not maintain adequate academic standing, he/ she is placed in Academic Warning. If the student's academic standing does not improve, the placement progresses to Academic Probation I. Continued unimproved academic standing moves a student into Academic Probation II, then finally, Academic Suspension. Each stage imposes more structure and limitations on the student in order to help them return to normal academic standing. The intent is not to punish, but to help the student return to normal academic standing and success. Since some of these limitations involve limitations on the number of credit hours, students on Probation or Suspension may be subject to loss of financial aid. It is the responsibility of the student to determine the impact of their changed academic standing on their financial aid. Notification to students of academic warning, probation, or suspension appears on the student's grade report at the end of each grading period.

#### **Undergraduate Academic Warning**

Issued only once, the first time a student's cumulative GPA falls below a 2.0 while in good academic standing. The University Student Records Office will send the student a notification detailing the consequences should the cumulative grade point remain below a 2.0 at the conclusion of the semester. A student on Academic Warning remains eligible for all extracurricular activities as governed by the rules of the specific activity.

While under Academic Warning the following restrictions apply:

- The student cannot enroll in more than 15 hours of coursework during the semester.
- The student may be required to enroll in a 3-credit hour special study skills/time management course specifically designed for students on Academic Warning, or an equivalent course approved by the appropriate associate dean or CAO of their campus.
- 3. Students may be required to enter into a contract with their advisor, approved by their department head that places further stipulations on Academic Warning. The contract may include, but is not limited to the following:
- 4. The student may be required to take at least one repeat course to try to improve their GPA.
- 5. Except for the special study skills/time management course, the student's coursework may be restricted to their major.
- 6. The student may be required to get tutoring help.
- The student may be required to see an academic counselor on a specified time schedule.
- The number of credit hours a student may register for may be restricted (due to extenuating circumstances such as the student's workload commitments).

The associate dean or CAO may place the student on Academic Probation I should the student not adhere to the stipulations of the contract.

If the student's semester GPA is less than a 2.0, and the cumulative GPA remains below a 2.0 at the end of the semester on Academic Warning, the student is placed on Academic Probation I. If the semester GPA is greater than 2.0 but the cumulative GPA is still less than 2.0, the student will remain on Academic Warning. If the cumulative GPA is greater than a 2.0

at the end of the semester then the student is returned to good academic standing.

### **Undergraduate Academic Probation I**

This occurs when a student under Academic Warning has a semester GPA less than 2.0, and the cumulative GPA remains below 2.0 at the conclusion of the semester or if the student maintains a semester GPA greater than 2.0 while on Academic Probation I but the cumulative GPA is still less than 2.0. Academic Probation I will also occur if a student falls below a 2.0 cumulative GPA from Good Academic Standing if Academic Warning already occurred in a previous term.

Under Academic Probation I the following conditions apply:

- The student cannot enroll in more than 13 hours of coursework during the semester. Note: Students falling below 12 credits in any one semester will jeopardize their financial aid. Should this occur, students should see the associate dean in their college as soon as possible to try to implement corrective measures.
- 2. The student may enter into a contract or individualized education plan with their advisor and approved by the associate dean or CAO that place further stipulations on Academic Probation I. The associate dean or CAO may place the student on Academic Probation II or Academic Suspension should the student not adhere to the stipulations of the contract.
- Students on Academic Probation receiving educational benefits from the Veterans' Administration must obtain counseling from the Military & Veterans Programs Office.
- Students admitted under special provisions whose transcripts indicate less than a 2.0 GPA are admitted on Academic Probation I.

The student must maintain a semester GPA equal to or greater than 2.0 until such time that the cumulative GPA is greater than 2.0 at which time the student goes back to good academic standing. Until the transition happens the student remains on Academic Probation I. The student will be placed on Academic Probation II if he/she is unable to maintain a 2.0 semester GPA, and the cumulative remains below a 2.0 GPA, while under Academic Probation I. A student on Academic Probation I remains eligible for all extracurricular activities as governed by the rules of the specific activity.

### **Undergraduate Academic Probation II**

Academic Probation II is issued in two ways.

- The first is when a student falls below a semester 2.0 GPA and the cumulative GPA remains below a 2.0 while on Academic Probation I.
- The second is when a student maintains a semester GPA greater than 2.0 while on Academic Probation II but the cumulative GPA is still less than 2.0.

The following restrictions are in place for student's in Academic Probation II:

- The student cannot enroll in more than 7 credit hours of coursework during the semester.
- As with rule 2 under Academic Warning and Academic Probation I
  and at the discretion of the associate dean or CAO, the student will
  be required to enter into a contract with their advisor, approved by
  the associate dean or CAO, to place further stipulations on Academic
  Probation II.

The associate dean or CAO may place the student on Academic Suspension should the student not adhere to the stipulations of the contract.

The student must maintain a semester 2.0 GPA or higher until the cumulative GPA reaches a 2.0 or higher at which time they are placed on good academic standing. A student unable to maintain a semester GPA of 2.0 or higher, and the cumulative remains below 2.0 GPA, while under Probation II will be placed on Academic Suspension. A student on Academic Probation II remains eligible for all extracurricular activities as governed by the rules of the specific activity.

#### **Continuing in Probationary Status**

Students may continue to enroll while on Academic Probation I or II provided they maintain a semester GPA of 2.0 or higher. If they withdraw from the university while on Academic Probation, they continue on that same level of Academic Probation.

#### **Removal of Academic Probation**

Such academic standing is removed when the cumulative GPA is raised to 2.0 or higher, with the following exceptions:

- 1. a transfer student may not remove probation by summer work alone;
- if an I grade is removed after the student has enrolled, the new grade's effect on academic standing is based on its inclusion with grades for the term for which the student is enrolled;
- 3. exercise of the Adjusted Credit Option does not change academic status until subsequent grades are earned.

### **Academic Suspension**

When a student does not achieve a semester 2.0 GPA or higher, and the cumulative remains below a 2.0 while under Academic Probation II, they are placed on Academic Suspension. Students under Academic Suspension are not allowed to take NMSU courses while under suspension. Students on Academic Suspension must sit out a minimum of 1 semester and apply for re-admission.

Under certain conditions, a student may be re-admitted at NMSU under regular status while under Academic Suspension when satisfactory progress has been demonstrated at another college or university (see Readmission- Degree Seeking). Credits earned at another university or college while under Academic Suspension from NMSU or another university or college will be accepted at NMSU only after the student demonstrates satisfactory progress over a period of two semesters after being re-admitted or admitted to NMSU. Acceptance of transfer credits that count toward degree requirements is still governed by the rules established by the student's respective college or campus.

#### Summer Attendance Impact on Academic Standing

A student may use summer classes to try to get warning or probationary status removed. Students suspended at the close of the spring semester may have their Academic Suspension rescinded if they attend summer session at NMSU or one of its Community College campuses. Such attendance must raise the combined spring semester and summer GPA to 2.0 or better. Under no circumstances may a student on Academic Warning or Academic Probation be allowed to register for an overload. The current academic status is continued if the student withdraws from the university and the probation or suspension status applies to all subsequent enrollments until the cumulative GPA is 2.0 or higher.

## **Graduate Academic Probation and Suspension**

Graduate Academic Standing is based on both the student's semester GPA and cumulative GPA. The student must maintain a cumulative GPA of 3.0 or higher to remain on Graduate Academic Good Standing.

**Graduate Academic Probation I**: A graduate student is placed on Graduate Academic Probation I when a graduate student's semester GPA is above a 3.0 and the cumulative GPA drops below 3.0; or when the semester and cumulative GPA's drop below 3.0 and the previous academic standing is Graduate Academic Good Standing.

**Graduate Academic Probation II**: Is issued when a graduate student semester GPA and the cumulative GPA drops below as 3.0 and the previous academic standing is one of Graduate Academic Probation I or Graduate Re-admit on Probation I.

#### **Graduate Academic Suspension:**

If the graduate student is unable to maintain a semester GPA of 3.0 or higher and the cumulative remains below 3.0 GPA while under Graduate Academic Probation II, the student will then be placed on Graduate Academic Suspension.

Students on Graduate Academic Suspension are barred from enrolling in graduate level courses at NMSU while on Suspension. Graduate students on Graduate Academic Suspension must sit out a minimum of one semester. Graduate students on suspension who wish to continue Graduate School after suspension must re-apply to the department and Graduate School. The student must also petition College Academic Dean or the Graduate School Dean, based on the major and degree the student is pursuing to be removed from Graduate Academic Suspension. At this time the graduate academic suspension status will be evaluated for possible readmission to the department. Should the suspension be lifted, the graduate student is placed on Graduate Academic Probation II or Graduate Re-admit on Probation II until such time that the graduate cumulative GPA equals or exceeds 3.0.

If you have questions about your academic standing, please contact your department academic advisor or Graduate Dean's office.

#### **Student Academic Code of Conduct**

The Student Academic Code of Conduct (SACC), applicable to both undergraduate and graduate students, provides procedures for the review and resolution of alleged or suspected academic misconduct within a reasonably prompt time frame. The full SACC is found in the university's published Administrative Rules and Procedures (ARP), specifically ARP 5.10 and ARP 5.11.

While it is important to refer to the detailed governing rules in the ARP, the process is summarized as follows: An institution-wide Academic Conduct Officer is responsible for processing each case of alleged academic misconduct. The accused student is provided notice of the allegation and has the right to participate during the fact finding process.

The student may contest the investigative findings or sanction before a neutral third party hearing panel member. Either party to the matter has the right to a final appeal of the findings or a Level II sanction to the Office of the Provost.

The SACC distinguishes between Level I Sanctions and Level II sanctions, depending upon the severity of the offense and other factors. The Level 1 sanction includes a formal warning. Offenses by graduate students

and repeat offenses, even if less serious are subject to a Level II Sanction. Level II sanctions include a notation of academic misconduct on the student's academic transcript.

The full policy, examples of academic misconduct, report form and a flowchart of the procedures for resolving alleged student academic misconduct is available at:

#### **Policies**

- ARP 5-10
- ARP 5-11

#### **Examples of Academic Misconduct and Report Form**

- · ARP Appendix 5.10-A (Examples)
- ARP Appendix 5.11-B (Form)

#### **Flowchart of Procedures**

ARP Appendix 5.11-A

#### **Privacy Rights**

The following information has been designated as directory information and is subject to release to the public under the Buckley Amendment (PL 98-380), "The Family Educational Rights and Privacy Act of 1974." student's name, class level, college and major, dates of attendance, degree(s) earned, honors and awards, address, telephone number, NMSU email address, Aggie ID number, most recent previous educational institution attended, place of birth, and some information about students involved in recognized activities and sports.

Other information regarding disclosure of student data is posted on the <u>University Student Records Office website</u> and in the University Student Records Office (USRO), in compliance with the Act.

Requests for withholding directory information must be filed in writing with the USRO. A student may choose to hide his/her address and phone number from the campus phonebook through the myNMSU portal. This will only hide the information from the public but the records will still be officially kept within the USRO.

## **Social Security Numbers in Student Records**

As required by law, social security numbers are collected from prospective and current students who are either applying for admission to the university or plan to seek employment on campus. The social security number is a confidential record and is maintained as such by the university in accordance with the Family Educational Rights and Privacy Act.

In addition, the university is mandated by federal tax regulations to provide tuition and fee payment information to the student and the Internal Revenue Service so that applicable educational tax credits may be computed. The social security number is required for tax reporting purposes.

#### **Change in Demographic Information**

Students wishing to make a legal name change, citizenship change, social security number update or a gender update can do so through the University Student Records Office (USRO). All students will need to fill out the "Demographic Change form" located at <a href="https://records.nmsu.edu/forms/">https://records.nmsu.edu/forms/</a> and provide one of the following documents to the USRO. Legal

name changes will only be processed for students currently enrolled at NMSU or any of its Community Colleges.

- Legal name change: students will need one legal documentation with the new name on it. This can be a Government Issued ID (drivers license, state card or valid passport), a Birth Certificate, a Court Order, a Marriage Certificate/Divorce Decree or a Certificate of Naturalization/I551 Card. Note: Documentation is not required to add/ delete hyphen, space, apostrophe, or to abbreviate a middle name to initial.
- 2. Citizenship change: Certificate of Naturalization or I551 card.
- Social Security Number Update: students will need to provide an original signed Social Security Card. Unsigned cards will not be accepted.
- Gender Update: students will need to bring a Government Issued ID (drivers license, state ID card or valid passport) and a Revised Birth Certificate

Students may update their "preferred name", which is the name used in lieu of a student's legal name, on certain documents, such as, the email display name, learning management system, the phonebook, class rosters and advisee lists. This can be done by the student through the myNMSU portal and does not need to be done at the USRO.

For more information about the specific documents that are needed please contact the University Student Records Office at (575) 646-3411.

## **Changes in Residency Status for Tuition Purposes**

The University Student Records Office (USRO) does not determine the laws and rulings for determining Residency, these are state laws that the USRO simply administers. An individual must establish legal residency in New Mexico before he or she is entitled to pay in-state tuition rates.

The student's initial residency status is determined at the time of admission, any changes to this status must be initiated by the student through the USRO. A continuing student, classified as a non-resident, who has satisfied the requirements to establish residency may submit a Petition for In-State Residency Tuition Classification along with the required supporting documentation to the USRO Office. Petitions must be filed on or before the third Friday of the semester for which the student is requesting resident tuition.

For specific information about the process of petitioning for In-State Residency or for information about who is eligible for residency for tuition purposes please visit the <a href="https://records.nmsu.edu/residency/">https://records.nmsu.edu/residency/</a> website or the University Student Records Office on the Las Cruces campus.

#### **Official Transcripts**

An official transcript is the University's certified statement of your complete NMSU academic record in chronological order by semester and year. It includes the student's coursework, grades and any degrees that were awarded. Any credit hours earned through transfer work are listed as the equivalent course at NMSU. Grades are not transferred, nor are they used to calculate the NMSU grade point averages. Official transcripts will not be released if the student is in debt to the university.

Transcripts can either be ordered in person at the University Student Records Office or online at <a href="https://records.nmsu.edu/transcripts/">https://records.nmsu.edu/transcripts/</a>, there will be a fee for these that may vary depending on the total number of transcripts ordered and the type of delivery method that is selected. A

student can request two types of transcripts an electronic one, which is sent as a secured PDF or a printed hard copy that can be delivered in a sealed envelope.

The name that will appear on the student's transcript will match the name on the student's official NMSU record. Name changes will only be processed for students currently enrolled at NMSU or any of its Community Colleges.

### **Purging of Student Files**

All academic files for students who attend NMSU are kept for five (5) years following the student's final term enrolled. Only archival documentation will be retained. The files of students who do not enroll within one year after being admitted are destroyed.

## Academic Support Services, Costs, Campus Resources, Student Activities

Academic Advising and Accessibility Services (p. 48)

Adult Education and GED (p. 47)<sup>®</sup>/HiSET Preparation (p. 47)

Apprenticeship Program (p. 48)

Barnes & Noble Bookstore (p. 48)

Career and Job Placement Services (p. 48)

Citizen's Professional Advisory Councils (p. 48)

Community Education (p. 48)

Developmental Programs and Services (p. 49)

Learning Assistance Center (p. 50)

Learning Technology Center (p. 50)

Library and Media Center (p. 50)

Service Learning Opportunities (p. 51)

Small Business Development Center (p. 51)

Student Organizations & Activities Associated Students (p. 51)

Video Conferencing and ITV (p. 52)

#### **Adult Education**

The Adult Education (A E) Division offers adults the opportunity to begin and/or complete a basic education through the twelfth grade. A E also provides a variety of educational programs and students support services that can help individuals achieve their goals and transition to college. A complete education improves one's opportunity for obtaining or retaining employment and/or going to college and can provide a person with a sense of accomplishment. A E instructional programs and classes include basic literacy, English as a second language (at various levels), EL/Civics, GED®/HiSET (high school equivalency diploma), college preparation, U.S. citizenship, computer literacy and work readiness. Practical living skills, employment and training and student success principles are also emphasized throughout the A E curriculum. Student support services include basic skills assessments, student orientations,

self-paced studies, advising and referral services, student success skills, tutoring on an individual and small-group basis and assistance with college transition. For more information about the A E programs, visit us at the A E Office at New Mexico State University Carlsbad; room 207; call (575) 234-9250 or email us at <a href="mailto:bjasso@nmsu.edu">bjasso@nmsu.edu</a> (); or <a href="mailto:ftgbjm@nmsu.edu">ftgbjm@nmsu.edu</a> ().

## **Apprenticeship Program**

The Manufacturing Sector Development Program (MSDP) in conjunction with local employers offers apprenticeships to current students. The objective of the Apprentice Program is to train individuals in the field of Industrial Maintenance Electrical in all phases of the industry through a well-developed, on-the-job and instructional program.

Recognizing the need for skilled construction craftsmen in Eddy, Chaves, and Lea Counties, the Carlsbad Community Development Corporation established the Multi-trade Apprenticeship Standards to be used by all of its members, including contractors, manufacturers and businesses that utilize people in occupations that can be learned through apprenticeship and wish to employ apprentices. For additional information contact the MSDP Department at New Mexico State University Carlsbad, room 227B or call (575) 234-9271.

### **Barnes & Noble Bookstore**

The Barnes & Noble Bookstore is a full service operation intended to meet the needs of the students, faculty and staff of NMSU Carlsbad and is located on the lower level. The bookstore sells required course textbooks, both new and used. The bookstore also has school supplies and NMSU Carlsbad insignia clothing items. Students may receive a full refund if books are returned during the first week of classes with a receipt. With a proof of schedule change and a receipt, a full refund will be given during the first 30 days of classes. The textbook refund period for summer and mini-sessions is one week only from the start of classes. Additionally, the bookstore buys back books year-round. The bookstore is open during posted hours. For any additional information, please visit us at www.nmsubookstore.com.

#### **Career and Job Placement Services**

Student Services offers various resources to help students evaluate and choose potential career options including Choices, a web-based career guidance software program and various workshops. We provide assistance with general job search strategies and guidance regarding how to write effective cover letters and resumes. Student Services coordinates work-study positions for eligible students as well as cooperative and internship opportunities.

# Citizen's Professional Advisory Councils

The Citizen's Professional Advisory Councils "CPAC" represents individual community stakeholder groups primarily aligned with workforce and academic instructional areas of the college. CPAC gives community stakeholders a chance to influence the college's role in the community and communicate the needs of individual organizations and business as they relate to the college. Advisory Councils are comprised of local employers and organizational representatives and involve valued constituencies in NMSU Carlsbad's planning for the educational needs of its students. Again, CPAC events allow the college and its community stakeholders to gather together to communicate external stakeholder

wants and needs. CPAC members come from the business community, public education, law enforcement, research laboratories, government agencies, private industry, media, etc. CPAC events occur twice a year and includes dinner, breakout sessions, focus groups, etc.

## **Community Education**

NMSU Carlsbad Community Education offers lifelong learning to individuals of all ages seeking educational options for the purpose of personal enrichment and self-improvement. Personal enrichment courses offered are in topics such as art, music, cooking, pottery, computer skills, yoga and welding. Course instructors include retired professionals, NMSU faculty, and business owners. The courses are affordable and can be taken in several hours to several weeks on our campus. Additionally, taking classes with NMSU Community Education allows the student to meet other people with the interest or hobby they would like to pass on. If someone is interested in teaching a class with Community Education, that person should call (575) 234-9247 or (575) 234-9214 or visit the Community Education Office on campus in Office 1A.

# Counseling and Student Development Center

#### **Academic Advising**

Academic advisors help students establish academic and career goals, transition to college, interpret placement test scores, select and schedule classes, explore majors, develop a graduation plan and evaluate progress towards completion. Students are encouraged to meet with their advisor each semester.

#### **Student Accessibility Services**

Students Accessibility Services (SAS) coordinates university efforts to provide access and opportunity to students with disabilities, including students who have disabilities that are apparent and non-apparent. Students wanting to learn more about the services or accommodations available to those with a documented disability should contact the SAS Coordinator in Student Services, Room 111. Advanced notice in planning services is strongly encouraged. NMSU is committed to providing an accessible institution to all individuals.

Accommodations can be requested by completing these steps:

- Make an appointment with the SAS Coordinator to self-identify as a student with a disability.
- 2. Submit a Petition for Accommodation and proper documentation to the SAS Coordinator.
- 3. Finalize accommodations for the semester with the SAS Coordinator.
- Take faculty notification letters listing approved accommodations to each instructor and return to the SAS Coordinator within five working days.
- 5. Submit a Petition for Continuation of Services each semester.

#### **Grievance Procedure for Students with Disabilities**

NMSU Carlsbad has adopted an internal grievance procedure providing for the prompt and equitable resolution of complaints alleging any action prohibited by Section 504 of the Rehabilitation Act of 1973 of the Americans with Disabilities Act of 1990 (ADA), which prohibit discrimination on the basis of disability.

Students are encouraged to attempt to resolve any problems or complaints they might have at the local college level first, when possible. Students should initially contact the NMSU Carlsbad Student Accessibility Services Coordinator at (575) 234-9321 in an effort to resolve problems related to the need for or provision of accommodations as well as those that are related to access needs or the equalization of learning opportunity. While students are encouraged to resolve concerns at the college level, any student may contact the EEO/ADA and Employee Relations Director at (575) 646-3333 or (575) 646-7802 (TDD) at New Mexico State University's main campus at any time.

#### Informal Complaint Procedure

The student may choose to resolve the complaint on an informal basis (such may include mediation, a letter to the professor, a telephone call or some other resolution amenable to the student). A written confidential record of the final outcome or resolution will be retained with the Student Accessibility Services Coordinator.

#### **Formal Grievance Procedures**

If the student wishes to formalize a grievance, completion of the New Mexico State University, EEO Grievance Form is required by the EEO/ADA and Employee Relations Office (575) 646-3333 within ten (10) working days of the occurrence. (Note: The 10-day filing period may be extended by written request to the EEO/ADA and Employee Relations Office with consent of the student). In order to expedite the filing process, formal New Mexico State University, EEO Grievance Forms are available in the Student Accessibility Services, Room 111.

The foregoing procedures are implemented to:

- Protect the substantive due process rights of students with disabilities, and
- Assure that NMSU Carlsbad complies with the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973, as amended.

For further information, contact the Student Accessibility Services Coordinator, the Vice President for Student Services or NMSU's EEO/ADA and Employee Relations Director at NMSU Las Cruces.

# **Developmental Programs and Services**

The mission of the Developmental Education Program at NMSU Carlsbad is to help students cultivate the knowledge, skills and attitudes necessary for success in college level curriculum by providing quality instruction and academic support that encourages students to be active participants in the learning process.

New students are placed into developmental education curses based on their ACT and/or Accuplacer placement testing scores. The course placement level is determined based on system wide standardized "cut-off" scores. The university strongly recommends that all required developmental education coursework be started during the first year of enrollment.

Students must pass all developmental coursework with a grade of "C" or higher, in order to move on to the next course in the sequence. Students who earn less than a "C" in a course will be required to repeat that course and must obtain the required minimum grade before moving to the next course in the sequence. Please note that credit earned in

developmental coursework is not applied toward any degree or certificate at NMSU Carlsbad, but completion of developmental coursework may be a requirement for any degree or certificate. Credit for developmental coursework is included in the credit calculations for financial aid. Most developmental courses are offered for 4 credits, which includes 3 credits of instruction and 1 credit of laboratory time to practice skills taught during instruction. A variety of course instructional formats may be offered. Please refer to the semester course schedule or visit the L.A.C. for more information regarding specifics for each course section.

Prefix	Title	Credits
Developmental Rea	ding	
CCDR 105 N	Fundamentals of Academic Reading.	3
CCDS 109 N	Study Skills for Reading	1
<b>Developmental Eng</b>	lish Sequence	
CCDE 105 N	Effective Communication Skills	4
CCDE 110 N	General Composition	4
Developmental Mat	h Sequence	
CCDM 105 N	Mathematics Preparation and Pre-Algebra <sup>1</sup>	5
CCDM 114 N	Algebra Skills	4
CCDR 110 N	Effective College Reading	3
Tutorial/Skills Cour	ses	
FYEX 1996	Special Topics <sup>2</sup>	2
FYEX 1131	Personal Learning Skills I <sup>3</sup>	1
College Level Englis	sh Courses	
Approved FYEX Elec	ctive	1
ENGL 1110G	Composition I 4	4
Course Level Math	Courses	
MATH 1134	Fundamentals of Elementary Mathematics I	3
MATH 2134G	Fundamentals of Elementary Math II	3
MATH 1215	Intermediate Algebra	3
MATH 1220G	College Algebra	3
MATH 1430G	Applications of Calculus I	3
MATH 1250G	Trigonometry & Pre-Calculus	4
MATH 1511G	Calculus and Analytic Geometry I	4
MATH 1521G	Calculus and Analytic Geometry II	4
MATH 1130G	Survey of Mathematics	3
Approved MATH Ele	ective	3
MATH 1350G	Introduction to Statistics	3

- An accelerated mathematics preparation and pre-algebra review sequence, which can be taken by those students who have recently had math.
- May be taken concurrently with MATH 1215 Intermediate Algebra and MATH 1220G College Algebra and any college level English. Graded on an S/U scale, based on the number of tutoring hours required. Students must contact the Tutor Coordinator in the L.A.C. prior to the start of the semester to receive additional information and sign a contract agreement that stipulates the number of required tutoring hours. Students may only enroll for a total of 2 credits of FYEX 1996 Special Topics per semester and the course may be repeated in subsequent semesters for a maximum of 8 credits.

- Requires the student to design a curriculum of study to meet individualized learning goals. Graded on an S/U scale, based on the number of hours completed and amount of progress made during the semester. Students must contact the Tutor Coordinator in the L.A.C. prior to the start of the semester to receive additional information and sign a contract agreement that stipulates the number of required hours and dictates the curriculum to be followed. This course may be repeated in subsequent semesters for a maximum of 3 credits.
- This course is required for all degree programs. Also, this course should be taken only by those who either initially "placed" into the course (by placement testing) or by those who have first successfully completed CCDE 110 N General Composition prior to enrollment in the course.

## **Developmental Courses and Course Sequence**

Before students enroll for any college level course listed above, they should have satisfied the following requirements:

- have taken and passed any stated prerequisite course with a grade of "C" or better or
- have taken the placement examination earlier, the result of which must affirm a student's placement at a college course level.

Courses beyond the developmental level may or may not be degree required (check the degree plan first).

## **Learning Assistance Center**

The Learning Assistance Center (L.A.C.) provides instructional support for students at NMSU Carlsbad. The goals of the L.A.C. include tutoring students for a wide variety of developmental and college level courses, helping students improve their study and learning skills, and connecting students to the network of support available at the university and within the community.

The L.A.C. oversees the following:

#### Services:

- Individual and Group Tutoring: Scheduled academic course assistance by qualified tutors for a wide variety of courses. Visit the L.A.C. for more information. Math tutoring for all CCDM and MATH courses through <u>MATH 121G</u> College Algebra.
  - Learning and Study Skills: Assistance with a variety of needs from learning style assessment to time management. Visit the L.A.C. for more information.
  - Test Prep: Tutoring, books and online preparation for Accuplacer, ACT and HESI.

All services are offered free of charge to qualified NMSU Carlsbad students. Courses are offered for credit and adhere to the university tuition schedule. Students must be admitted to NMSU Carlsbad to access all services and courses.

For more information about these services or its offerings, call (575) 234-9315, visit the L.A.C. in Room 253 or visit our website at <u>carlsbad.nmsu.edu</u>. The L.A.C. hours are 8 a.m. to 6 p.m. Monday through Thursday and the hours on Friday is 8 a.m. to 12 noon; during the Fall and Spring semesters. Summer hours are determined at the end of the spring semester.

## **Learning Technology Center**

The Learning Technology Center (LTC) located in Room 211 of the Main Building, is open Monday through Thursday, 8am to 6pm and Friday 8am to 5pm. The office phone number is (575) 234-9263. The LTC provides technology support for faculty, staff and students at New Mexico State University Carlsbad. The goals of the LTC include teaching faculty and students on the learning management system (LMS) and other web technologies, providing professional development for faculty and staff, helping faculty improve course design and development of online learning and assisting students with technology issues.

For students, the LTC provides training and technology support in the following topics:

- · Cloud based storage (Google Drive, Microsoft 365 OneDrive)
- · Learning Management System Canvas interface/online classroom
- · Mobile learning devices basics
- · NMSU account set up
- · NMSU E-mail
- · Other Web technologies

#### **Computer Center**

The Computer Center at NMSU Carlsbad operates four instructional computer classrooms and general use computer labs in the Library, Learning Technology Center and the Learning Assistance Center. All computers are networked and provide access to the Internet. The Center maintains a staff of full time and student employees to provide users with technical support. The ICT general Help Desk phone number is (575) 234-9448.

#### **Student Computer Accounts**

All students enrolled for credit courses are given a computer account that allows them access to the Internet during the semester(s) in which they are enrolled. This account also allows a student access to server based storage for homework. If you are experiencing trouble with Canvas or Banner access, please call the LTC at (575) 234-9263 or (575) 234-9259.

## **Library and Media Center**

A center of academic activity, the Library and Media Center is the first choice for information for students at NMSU Carlsbad. The campus library supports learning and instruction with online and traditional learning resources. The library ensures equal access to learners across the spectrum of educational level, physical ability and location. General and discipline based instruction is available for classes, individual students and faculty by appointment.

Through active collaboration with faculty, the library offers academic and vocational resources relevant to student achievement and success. Information literacy training is embedded into the physical and on-line learning environments to ensure technological readiness vital to personal and professional achievement in today's global economy.

The library is an open, vibrant and student centered environment that encourages discovery and academic advancement through active learning. A welcoming space for individual and collaborative interaction, the library is open six days a week, 10 hours each weekday and 4 hours on Saturday during the fall and spring semesters. Remote access to selected online resources is available to current students, faculty and staff.

The library also serves as a public gateway for the Carlsbad and Eddy county communities by providing access to both print and specific online resources delivered through the State Library of New Mexico.

#### **Library Hours**

Monday – Thursday 8:00 am to 8:00 pm Friday – 8:00 am to 5:00 pm Saturday – 10:00 am to 2:00 pm

The library follows the NMSU Carlsbad calendar and is closed whenever the campus is closed.

## **Service Learning Opportunities**

A variety of NMSU Carlsbad courses may include Service Learning options. Service learning programs involve students in activities that address local needs while developing their academic skills and commitment to their community. Service Learning is a teaching and learning strategy that connects meaningful community service with instruction and reflection to enrich the learning experience, teach civic responsibility and strengthen communities. Participants in Service Learning master important curriculum content by making connections between what they are studying in the NMSU classroom and its many applications. The four pillars of Service Learning are

- · the academic focus in the NMSU classroom,
- · the service that meets a community need,
- · reflecting on the experience, and
- · strengthened civic responsibility.

For more information on Service Learning Opportunities at NMSU Carlsbad call (575) 234-9247 or visit the Community Education Office on campus in office 1A.

## **Small Business Development Center**

NMSU Carlsbad's Small Business Development Center (SBDC) is located in downtown Carlsbad at 221 S. Canyon Street in the heart of the local business district. The SBDC offers free, quality counseling and guidance for business owners and prospective owners.

The SBDC is designed with you in mind. Whether you have been in business for some time or just starting out, we can help you address the multitude of issues and problems you encounter each day.

Our experienced staff can help you:

- · Explore business ownership opportunities in Eddy County
- Start a new business or make an established one more efficient and profitable
- · Create alternatives for problem solving
- · Measure your success potential
- · Improve your management skills
- · Access a wealth of business resources

#### **Business Education**

If needed, special arrangements can be made for SBDC staff to come to your business site to discuss strategies. Seminars and workshops are available to improve your business and management skills. Classes are scheduled through the SBDC by contacting (575) 885-9531.

#### **Center for Resource Information**

The SBDC has a resource library that can benefit you in retrieving business information. Why work alone? SBDC will help you find a competitive advantage through professional business publications. Internet access is available at the center for clients. Let the Small Business Development Center help you and your business reach full potential. Call us today to discuss your needs at (575) 885-9531.

## **Student Organizations**

#### Phi Theta Kappa

Phi Theta Kappa is the international honor society for two year colleges. To be eligible, students must have a 3.5 GPA, have completed 12 credit hours of non-developmental course work, be of good character and be recommended by faculty. Members are invited to membership once per semester. Members are eligible for special conferences, workshops and scholarships.

#### **Associated Students**

The Associated Students of NMSU Carlsbad represents the student body. The Associated Students is composed of members who are elected, at the close of each semester, to serve during the next regular academic semesters (summer sessions excluded).

Any student enrolled for a minimum of 6 semester credits, possessing a 2.0 grade point average or higher and is in good standing is eligible for election to Associated Students. Responsibility of the Associated Students include identifying qualifications for the recognition of student organizations and related funding, student social activities, student activity budgets student publications, student elections, students' academic freedoms, and the use of facilities dedicated for student's social, cultural, recreational and service activities. Associated Students is open to all students meeting qualifications. Students are encouraged to join and actively participate in the student government. For more information, call (575) 234-9335.

#### **Beta Alpha Delta**

NMSU Carlsbad supports the Beta Alpha Delta Chapter of the American Criminal Justice Association/Lambda Alpha Epsilon. The Association is a National Criminal Justice professional type fraternity. The college has a very active chapter that raises funds to attend regional and national conferences/competitions, perform community service projects, campus service projects and have fun.

Membership in the association gives the student an opportunity to improve their C J skills and knowledge, network with people from all over the United States and further criminal justice professionalism. Membership is open to anyone who has an interest in Criminal Justice. There are three levels of participation for competition purposes: lower division academic, upper division academic and professional. For further information, please call (575) 234-9354.

#### Student Government (ASNMSU Carlsbad)

We coordinate campus activities through Associated Students of NMSU Carlsbad, the campus student government association, and host events on student development issues such as drug and alcohol abuse prevention, suicide prevention, mental and physical wellness, leadership and cultural diversity.

#### **Student Nurses Association**

The NMSU Carlsbad Student Nurses Association is an organization for nursing students designed to contribute to nursing education, to provide programs representative of the fundamental interests and concerns of nursing students and to aid nursing students in the development of the whole person, and to promote and encourage collaborative relationships with nursing and health related organizations. Membership is open to pre and current nursing students. For more information, call (575) 234-9300.

## **Video Conferencing and ITV**

Video conferencing services, including two way interactive televisions, are also provided for staff and community organizations through the Help Desk in the Business Office. To schedule a computer classroom or a video conferencing room contact the Help Desk at (575) 234-9406.

## **WorkKeys**

## WorkKeys® Scores for Vocational Certificates 2020-2021 Catalog

Certificate	Reading for Information Level	Locating Information Level	Applied Mathematics Level
Accounting	Dev. Ed.	Dev. Ed.	Dev. Ed.
Banking	Dev. Ed.	Dev. Ed.	Dev. Ed.
Business Office Tech – Accounting concentration	4	4	4
Business Office Tech - Administrative Assistant concentration	4	4	4
<b>Building Trades</b>	4	4	4
Drafting and Graphics Technology – Architectural	4	4	3
Drafting and Graphics Technology – General Drafting	4	4	3
Industrial Maintenance Technician – Electrical option	3	4	3
Industrial Maintenance Technician – Mechanical option	3	4	3
Welding Technology	4	4	4
Auto Refinishing	4	4	4
Structural Collision Repair	4	4	4
Non Structural Collision Repair	4	4	4
Automotive Technology	4	4	4
Digital Animation	5	4	5

Digital Graphics	5	4	5
Digital Video Game Animation	5	4	5
Digital Video	5	4	5
Microcomputer Applications	5	4	5
Emergency Medical Technician - Basic, Interm., Paramedic			
Health Information Technology	Dev. Ed.	Dev. Ed.	Dev. Ed.
<b>Practical Nursing</b>	Dev. Ed.	Dev. Ed.	Dev. Ed.
Early Childhood Administrative	4	4	4
Heritage Interpretation	Dev. Ed.	Dev. Ed.	Dev. Ed.

## Fields of Study

NMSU Carlsbad offers 100-200 level courses which, when taken in specified sequences with additional academic requirements, normally lead to a certificate or an associate degree.

A certificate represents a sequence of specified courses which offer instruction in specific knowledge, competencies and skills to meet certain predetermined qualifications specified and/or required by a given vocation or profession. The certificate normally represents approximately one year of full time college study or its equivalence in the depth and quality of related learning experiences, and is intended to train and otherwise prepare graduates for entry into the workforce immediately upon completion of their studies. Consequently, the emphasis of a certain curriculum is to provide graduates with the knowledge, competencies and skills to succeed in a specific vocation or profession; without immediate need for additional academic preparation.

An associate degree is a 100-200 level undergraduate degree and is awarded to graduates of prescribed lower division curricula normally representing approximately two years of full time college study (60 or more semester credits) or its equivalent in the depth and quality of related learning experiences. The Associate of Arts degree normally implies a liberal education orientation and the Associate of Applied Science degree normally implies a more applied orientation in a given discipline; which may align with a specific vocational or professional field. NMSU Carlsbad also awards an Associate Degree in General Studies. Although graduates awarded the Associate of Applied Science degree intend to enter the workplace immediately, most graduates of the Associate of Arts degree intend to continue their academic preparation towards the completion of a baccalaureate degree and should be mindful of what courses may transfer easily toward their major area of study at the receiving institution.

All entering students are required to take specific placement tests in the areas of English, math and reading to determine their eligibility for entrance to college level courses.

#### **Prerequisites to Certificates**

Graduates in certificate programs must demonstrate proficiency in reading, math and English as evidenced by sufficient scores on the Workkeys® assessment. Additional remediation may be required to attain these scores.

## Requirements Specific to Associate Degrees

The following requirements apply to students seeking to graduate with an associate degree from NMSU Carlsbad:

- Students must maintain a cumulative grade point average of 2.0 or higher.
- Students must take their last 15 semester credits through NMSU Carlsbad or any NMSU campus (cannot include CLEP, challenge exams, or transfer credits).
- Students must complete a minimum of 60 approved semester credits.
- Student must complete ENGL 1110G Composition I with a grade a C or better.
- Students must demonstrate proficiency in reading, math, and English as evidenced by sufficient scores on the college placement test, ACT, or SAT.

## **Preparation for Transfer to Baccalaureate Study**

Students planning to attend a baccalaureate granting institution, at either NMSU Las Cruces or elsewhere are encouraged to contact the institution they intend to attend and secure all application materials and information pertaining to their intended programs of study.

Requirements for baccalaureate degrees awarded through the NMSU-Las Cruces includes specific general education courses and requirements that are listed in the undergraduate catalog published annually by NMSU Las Cruces. Students planning to complete the course requirements for an Associate of Arts degree, with the intention of later attending NMSU Las Cruces to complete an undergraduate degree are encouraged to consult with their advisor(s) at NMSU Carlsbad or with the appropriate dean at NMSU Las Cruces, to identify specific program requirements.

NMSU Carlsbad offers courses up the first two years of study to prepare students for a variety of Bachelor degree programs. NMSU Carlsbad offers associate degrees and certificates in a variety of fields.

# Common Course Numbering Crosswalk

The Post-secondary Education Articulation Act charges the New Mexico Higher Education Department with establishing and maintaining a common course numbering system, in consultation with faculty. To this end, the common course numbering system includes both equivalent (Common) and unique courses.

- Common Course: is any course that is offered at multiple institutions
  throughout the state, has the same prefix/number combination, the
  same title, the same description, and at least 80% of the learning
  outcomes for the course are the same.
- Unique Course: is any course that is unique to the institution (the NMSU system), has a prefix/number combination, title, description and learning outcomes that are unique to the institution (the NMSU System).

The table below shows the previous NMSU System-wide course prefix/ number combination, the future Common Course Numbering prefix/ number combination, and an indicator of whether the course is deemed Common or Unique throughout the state.

Current Course	Past Course	Course Type Indicator
ACCT-ACCOUNTING		
ACCT 2110	ACCT 221	Common
ACCT 2120	ACCT 222	Common
ACES-AGRI, CONSUMER & ENV SCIE		
ACES 1210	ACES 121	Unique
ACES 1220	ACES 199	Unique
AEEC-AGRICULTURAL ECONOMICS		
AEEC 1110	AG E 100	Common
AEEC 1120	AG E 101	Unique
AEEC 2110	AG E 236	Unique
AEEC 2120	AG E 260	Unique
AEEC 2130G	AG E 210G	Unique
AEEC 2140	AG E 250	Unique
AEEC 2996	AG E 200	Unique
AEEC 300	AG E 300	N/A
AEEC 305	AG E 305	N/A
AEEC 311	AG E 311	N/A
AEEC 313	AG E 313	N/A
AEEC 314	AG E 314	N/A

AEEC 337         AG E 337         N/A           AEEC 3370         AG E 340         N/A           AEEC 342         AG E 342         N/A           AEEC 342         AG E 350         N/A           AEEC 355         AG E 356         N/A           AEEC 384         AG E 385         N/A           AEEC 385         AG E 385         N/A           AEEC 400         AG E 400         N/A           AEEC 420         AG E 400         N/A           AEEC 420         AG E 425         N/A           AEEC 425         AG E 425         N/A           AEEC 426         AG E 425         N/A           AEEC 427         AG E 445         N/A           AEEC 428         AG E 425         N/A           AEEC 427         AG E 452         N/A           AEEC 456         AG E 452         N/A           AEEC 456         AG E 452         N/A           AEEC 458         AG E 452         N/A           AEEC 459         AG E 470         N/A           AEEC 470         AG E 470         N/A           AEEC 470         AG E 470         N/A           AEEC 470         AG E 470         N/A <t< th=""><th></th><th></th><th></th></t<>			
AEEC 33TV         AG E 33T         N/A           AEEC 340         AG E 340         N/A           AEEC 342         AG E 342         N/A           AEEC 350         AG E 355         N/A           AEEC 352         AG E 375         N/A           AEEC 384         AG E 384         N/A           AEEC 385         AG E 385         N/A           AEEC 400         AG E 400         N/A           AEEC 406         AG E 400         N/A           AEEC 425         AG E 420         N/A           AEEC 425         AG E 420         N/A           AEEC 445V         AG E 445V         N/A           AEEC 445V         AG E 451         N/A           AEEC 452         AG E 455         N/A           AEEC 452         AG E 456         N/A           AEEC 452         AG E 456         N/A           AEEC 452         AG E 456         N/A           AEEC 459         AG E 456         N/A           AEEC 470         AG E 479         N/A           AEEC 479         AG E 479         N/A           AEEC 479         AG E 470         N/A           AEEC 479         AGRO 200         Unique	AEEC 315V	AG E 315V	N/A
AEEC 340         AG E 340         N/A           AEEC 342         AG E 342         N/A           AEEC 375         AG E 375         N/A           AEEC 385         AG E 384         N/A           AEEC 385         AG E 385         N/A           AEEC 400         AG E 400         N/A           AEEC 400         AG E 406         N/A           AEEC 420         AG E 420         N/A           AEEC 422         N/A         N/A           AEEC 425         AG E 425         N/A           AEEC 451         AG E 451         N/A           AEEC 452         AG E 451         N/A           AEEC 453         AG E 455         N/A           AEEC 454         AG E 456         N/A           AEEC 455         AG E 456         N/A           AEEC 450         AG E 470         N/A           AGRO 250         Unique           AGRO 250         U	AEEC 325	AG E 325	N/A
AEEC 342         AG E 342         N/A           AEEC 350         AG E 350         N/A           AEEC 375         AG E 344         N/A           AEEC 384         AG E 385         N/A           AEEC 380         AG E 385         N/A           AEEC 400         AG E 400         N/A           AEEC 406         AG E 400         N/A           AEEC 420         AG E 420         N/A           AEEC 425         AG E 425         N/A           AEEC 425         AG E 4457         N/A           AEEC 431         AG E 451         N/A           AEEC 452         AG E 452         N/A           AEEC 453         AG E 453         N/A           AEEC 456         AG E 456         N/A           AEEC 470         AG E 458         N/A           AEEC 470         AG E 499         N/A           AGRO 200         Unique           AGRO 2100         Common           AGRO 2100         Common           AGRO 250         Unique           ANSC 2110         ANSC 100         Common           ANSC 2110         ANSC 100 L         Unique           ANSC 1120         ANSC 100 L         Unique			
AEEC 350         AE E 350         N/A           AEEC 375         AG E 375         N/A           AEEC 384         AG E 384         N/A           AEEC 385         AG E 306         N/A           AEEC 400         AG E 400         N/A           AEEC 420         AG E 420         N/A           AEEC 422         AG E 425         N/A           AEEC 435         AG E 445V         N/A           AEEC 451         AG E 451         N/A           AEEC 452         AG E 451         N/A           AEEC 453         AG E 456         N/A           AEEC 456         AG E 456         N/A           AEEC 457         AG E 456         N/A           AEEC 470         AG E 470         N/A           AEEC 470         AG E 470         N/A           AEEC 470         AG E 499         N/A           AEEC 470         AG E 499         N/A           AEEC 470         AG E 490         N/A <t< td=""><td>AEEC 340</td><td>AG E 340</td><td>N/A</td></t<>	AEEC 340	AG E 340	N/A
AEEC 375         AG E 375         N/A           AEEC 384         AG E 384         N/A           AEEC 385         AG E 385         N/A           AEEC 400         AG E 400         N/A           AEEC 406         AG E 406         N/A           AEEC 420         AG E 420         N/A           AEEC 425         AG E 425         N/A           AEEC 4451         AG E 451         N/A           AEEC 452         AG E 451         N/A           AEEC 452         AG E 452         N/A           AEEC 452         AG E 456         N/A           AEEC 452         AG E 456         N/A           AEEC 459         AG E 459         N/A           AEEC 470         AG E 470         N/A           AEEC 470         AG E 499         N/A           AEEC 470         AG RO 200         Unique           AGRO 2100         AGRO 200         Unique           AGRO 21100         AGRO 200         Unique           AGRO 21100         ANG 200         Unique           ANSC 2110         ANSC 100         Common           ANSC 2110         ANSC 100         Unique           ANSC 1100         Unique	AEEC 342	AG E 342	N/A
AEEC 384         AG E 385         N/A           AEEC 385         AG E 386         N/A           AEEC 400         AG E 400         N/A           AEEC 420         AG E 406         N/A           AEEC 422         AG E 420         N/A           AEEC 425         AG E 425         N/A           AEEC 451         AG E 451         N/A           AEEC 452         AG E 452         N/A           AEEC 453         AG E 456         N/A           AEEC 456         AG E 456         N/A           AEEC 470         AG E 470         N/A           AEEC 499         AG E 470         N/A           AEEC 490         AGRO 200         Unique           AGRO 21100         AGRO 200         Unique           AGRO 21100         AGRO 200         Unique           ANSC 2120         Common           ANSC 1120         ANSC 100 H         Unique           ANSC 1120         ANSC 100 H         Unique           ANSC 1120         ANSC 100 H         Unique           ANSC 1130         ANSC 100 H         Unique           ANSC 1140         ANSC 100 H         Unique           ANSC 1180         ANSC 205         Unique     <	AEEC 350	AG E 350	N/A
AEEC 385         AG E 385         N/A           AEEC 400         AG E 400         N/A           AEEC 420         AG E 406         N/A           AEEC 420         AG E 420         N/A           AEEC 425         AG E 425         N/A           AEEC 445V         AG E 445V         N/A           AEEC 451         AG E 451         N/A           AEEC 452         AG E 452         N/A           AEEC 458         AG E 458         N/A           AEEC 470         AG E 470         N/A           AEEC 499         AG E 470         N/A           AGRO 240         N/A         N/A           AGRO 250         Unique           AGRO 2100         AGRO 200         Unique           AGRO 2906         AGRO 200         Unique           ANSC 1110         ANSC 220         Common           ANSC 1120         ANSC 100         Common           ANSC 1120         ANSC 100         Unique           ANSC 1120         ANSC 100         Unique           ANSC 1130         ANSC 100         Unique           ANSC 1140         ANSC 200         Unique           ANSC 1150         ANSC 201         Unique	AEEC 375	AG E 375	N/A
AEEC 400         AG E 400         N/A           AEEC 0406         AG E 406         N/A           AEEC 420         AG E 420         N/A           AEEC 425         AG E 425         N/A           AEEC 445V         AG E 445V         N/A           AEEC 451         AG E 451         N/A           AEEC 452         AG E 452         N/A           AEEC 456         AG E 456         N/A           AEEC 470         AG E 470         N/A           AEEC 479         AG E 470         N/A           AEEC 499         AG E 499         N/A           AGRO-AGRONOMY         W         N/A           AGRO-2160         AGRO 100G         Common           AGRO 2196         AGRO 200         Unique           AGRO 2196         AGRO 200         Unique           ANSC 1120         ANSC 100         Common           ANSC 1120         ANSC 100         Common           ANSC 1120         ANSC 100         Unique           ANSC 1120         ANSC 100         Unique           ANSC 1130         ANSC 100         Unique           ANSC 1140         ANSC 206         Unique           ANSC 1180         ANSC 206	AEEC 384	AG E 384	N/A
AEEC 406         AG E 406         N/A           AEEC 420         AG E 402         N/A           AEEC 425         AG E 425         N/A           AEEC 445V         AG E 445V         N/A           AEEC 451         AG E 451         N/A           AEEC 452         AG E 452         N/A           AEEC 456         AG E 458         N/A           AEEC 470         AG E 479         N/A           AEEC 499         AG E 499         N/A           AGRO 110G         Common         Common           AGRO 2160         AGRO 250         Unique           AGRO 2996         AGRO 200         Unique           ANSC 1110         ANSC 200         Common           ANSC 1120         ANSC 100 H         Unique           ANSC 1120         ANSC 100 H         Unique           ANSC 1130         ANSC 103         Unique           ANSC 1160         ANSC 200         Common           ANSC 1170         ANSC 288         Common           ANSC 2120         ANSC 2	AEEC 385	AG E 385	N/A
AEEC 420         AG E 425         N/A           AEEC 425         AG E 425         N/A           AEEC 451         AG E 445V         N/A           AEEC 452         AG E 452         N/A           AEEC 452         AG E 452         N/A           AEEC 458         AG E 458         N/A           AEEC 470         AG E 470         N/A           AEEC 499         AG E 499         N/A           AGRO-AGRONOMY         W         W           AGRO 2100         MGRO 2100         MGRO 2100           AGRO 2160         AGRO 200         Unique           ANSC 1110         ANSC 220         Common           ANSC 1120         ANSC 100         Common           ANSC 1120         ANSC 100         Common           ANSC 1120         ANSC 100         Unique           ANSC 1120         ANSC 100         Unique           ANSC 1120         ANSC 100         Unique           ANSC 1120         ANSC 103         Unique           ANSC 1120         ANSC 103         Unique           ANSC 1120         ANSC 103         Unique           ANSC 1120         ANSC 201         Unique           ANSC 2120         ANSC 208	AEEC 400	AG E 400	N/A
AEEC 425         AG E 425         N/A           AEEC 445V         AG E 445V         N/A           AEEC 451         N/A         AGE 451         N/A           AEEC 452         AG E 452         N/A           AEEC 456         AG E 458         N/A           AEEC 470         AG E 470         N/A           AEEC 499         AG E 499         N/A           AGRO-AGRONOMY         WINIQUE         Common           AGRO 250         Unique         AGRO 250           AGRO 2996         AGRO 200         Unique           ANSC 1110         ANSC 220         Common           ANSC 1120         ANSC 100         Unique           ANSC 1120         ANSC 100         Unique           ANSC 1120         ANSC 100         Unique           ANSC 1130         ANSC 103         Unique           ANSC 1160         ANSC 103         Unique           ANSC 1170         ANSC 261         Unique           ANSC 2120         ANSC 288         Common           ANSC 2210 </td <td>AEEC 406</td> <td>AG E 406</td> <td>N/A</td>	AEEC 406	AG E 406	N/A
AEEC 445V         AG E 445V         N/A           AEEC 451         AG E 451         N/A           AEEC 452         N/A         AGE 452         N/A           AEEC 456         AG E 456         N/A           AEEC 470         AG E 458         N/A           AEEC 479         N/A         ACEC 499         N/A           AERC 499         N/A         ACEC 499         N/A           AGRO 1100G         Common         AGRO 250         Unique           AGRO 296         AGRO 250         Unique           ARSC 2996         AGRO 200         Unique           ANSC 1120         ANSC 100         Common           ANSC 1120         ANSC 100         Common           ANSC 1120         ANSC 100         Unique           ANSC 1120H         ANSC 100 H         Unique           ANSC 1120H         ANSC 100 H         Unique           ANSC 1120H         ANSC 200         Unique           ANSC 1120H         ANSC 201         Unique           ANSC 1120H         ANSC 200         Unique           ANSC 1120H         ANSC 200         Unique           ANSC 1120H         ANSC 201         Unique           ANSC 1120H         ANSC	AEEC 420	AG E 420	N/A
AEEC 451         AG E 452         N/A           AEEC 452         AG E 456         N/A           AEEC 458         AG E 458         N/A           AEEC 459         AG E 470         N/A           AEEC 499         AG E 499         N/A           AERCA 499         AGRO 100G         Common           AGRO-AGRONOMY         Wique         AGRO 250           AGRO 210G         AGRO 250         Unique           AGRO 2996         AGRO 200         Unique           ANSC-NIMAL SCIENCE         W         Common           ANSC 1120         ANSC 100         Unique           ANSC 1120         ANSC 100         Unique           ANSC 1120         ANSC 100         Unique           ANSC 1130         ANSC 103         Unique           ANSC 1140         ANSC 205         Unique           ANSC 1120         ANSC 281         Unique           ANSC 2130         ANSC 282         Common           ANSC 2240         ANSC 288         Common           ANSC 2250	AEEC 425	AG E 425	N/A
AEEC 452         AG E 452         N/A           AEEC 456         AC E 458         N/A           AEEC 470         AC E 470         N/A           AEEC 499         AC E 470         N/A           AERO 400         N/A         N/A           AISC 1100         AIX 5 (100         Unique           AIX 5 (110         AIX 6 (100         Unique           AIX 5 (110         AIX 6 (100         Unique           AIX 5 (110         AIX 6 (100 <t< td=""><td>AEEC 445V</td><td>AG E 445V</td><td>N/A</td></t<>	AEEC 445V	AG E 445V	N/A
AEEC 456         AG E 456         N/A           AEEC 470         AG E 470         N/A           AEEC 479         AG E 499         N/A           AEEC 499         N/A           AGRO-AGRONOMY         N/A           AGRO 1110G         AGRO 100G         Common           AGRO 2160         AGRO 250         Unique           AGRO 296         AGRO 200         Unique           ANSC-ANIMAL SCIENCE         W         Common           ANSC 1110         ANSC 220         Common           ANSC 1120         ANSC 100         Common           ANSC 1120         ANSC 100         Common           ANSC 1120         ANSC 100 Unique         Unique           ANSC 1120         ANSC 100 Unique         Unique           ANSC 1120         ANSC 205         Unique           ANSC 1130         ANSC 205         Unique           ANSC 1140         ANSC 205         Unique           ANSC 1170         ANSC 288         Common           ANSC 2180         ANSC 288         Common           ANSC 2120         ANSC 288         Common           ANSC 2150         ANSC 289         Unique           ANSC 2210         ANSC 201         Com	AEEC 451	AG E 451	N/A
AEEC 458         AG E 458         N/A           AEEC 470         AG E 470         N/A           AEEC 499         AG E 499         N/A           AGRO-AGRONOMY         W         W           AGRO 21100         AGRO 250         Unique           AGRO 2996         AGRO 200         Unique           ANSC-ANIMAL SCIENCE         W         Common           ANSC 1110         ANSC 220         Common           ANSC 1120         ANSC 100         Common           ANSC 1120H         ANSC 100 H         Unique           ANSC 1130         ANSC 100 H         Unique           ANSC 1130         ANSC 190         Unique           ANSC 1130         ANSC 103         Unique           ANSC 1140         ANSC 103         Unique           ANSC 1170         ANSC 205         Unique           ANSC 1180         ANSC 103         Unique           ANSC 1210         ANSC 281         Common           ANSC 2120         ANSC 288         Common           ANSC 2120         ANSC 288         Unique           ANSC 2130         ANSC 295         Unique           ANSC 2250         Unique           ANSC 2300         ANSC 290	AEEC 452	AG E 452	N/A
AEEC 470         AG E 470         N/A           AEEC 499         AG E 499         N/A           AGRO-AGRONOWY         NAGRO 100G         Common           AGRO 2160         AGRO 250         Unique           AGRO 2996         AGRO 200         Unique           ANSC-AIMAL SCIENCE         W         W           ANSC 1110         ANSC 220         Common           ANSC 1120         ANSC 100         Common           ANSC 1120H         ANSC 100 H         Unique           ANSC 1120H         ANSC 190         Unique           ANSC 1120L         ANSC 190         Unique           ANSC 1130         ANSC 190         Unique           ANSC 1160         ANSC 205         Unique           ANSC 1160         ANSC 201         Unique           ANSC 1170         ANSC 201         Unique           ANSC 1170         ANSC 201         Unique           ANSC 2130         ANSC 288         Common           ANSC 2130         ANSC 289         Unique           ANSC 2150         ANSC 289         Unique           ANSC 2310         ANSC 202         Common           ANSC 2330         ANSC 201         Common           ANSC 23	AEEC 456	AG E 456	N/A
AEEC 499         AG E 499         N/A           AGRO-AGRONOMY         AGRO 100G         Common           AGRO 2160         AGRO 250         Unique           AGRO 2996         AGRO 200         Unique           ANSC-ANIMAL SCIENCE         W         Common           ANSC 1110         ANSC 220         Common           ANSC 1120         ANSC 100         Common           ANSC 1120H         ANSC 100 H         Unique           ANSC 1130         ANSC 100 L         Unique           ANSC 1130         ANSC 190         Unique           ANSC 1130         ANSC 103         Unique           ANSC 1140         ANSC 205         Unique           ANSC 1150         ANSC 103         Unique           ANSC 1160         ANSC 103         Unique           ANSC 1180         ANSC 261         Unique           ANSC 2180         ANSC 288         Common           ANSC 2120         ANSC 288         Common           ANSC 2140         ANSC 289         Unique           ANSC 2150         ANSC 289         Unique           ANSC 2210         ANSC 280         Common           ANSC 2310         ANSC 200         Common <t< td=""><td>AEEC 458</td><td>AG E 458</td><td>N/A</td></t<>	AEEC 458	AG E 458	N/A
AGRO-AGRONOMY           AGRO 1110G         AGRO 100G         Common           AGRO 2160         AGRO 250         Unique           AGRO 2996         AGRO 200         Unique           ANSC-ANIMAL SCIENCE         W         W           ANSC 1110         ANSC 200         Common           ANSC 1120         ANSC 100         Common           ANSC 1120H         ANSC 100 H         Unique           ANSC 1120L         ANSC 100 L         Unique           ANSC 1130         ANSC 190         Unique           ANSC 1140         ANSC 205         Unique           ANSC 1140         ANSC 205         Unique           ANSC 1160         ANSC 203         Unique           ANSC 1170         ANSC 261         Unique           ANSC 2180         ANSC 281         Common           ANSC 2120         ANSC 288         Common           ANSC 2130         ANSC 289         Unique           ANSC 2160         ANSC 289         Unique           ANSC 2310         ANSC 262         Common           ANSC 2330         ANSC 201         Common           ANSC 2340         ANSC 201         Common           ANSC 2996         ANSC 201	AEEC 470	AG E 470	N/A
AGRO 1110G       AGRO 100G       Common         AGRO 2160       AGRO 250       Unique         AGRO 2996       AGRO 200       Unique         ANSC-ANIMAL SCIENCE       W         ANSC 1110       ANSC 220       Common         ANSC 1120       ANSC 100       Common         ANSC 1120H       ANSC 100 H       Unique         ANSC 1120L       ANSC 100 L       Unique         ANSC 1130       ANSC 190       Unique         ANSC 1140       ANSC 205       Unique         ANSC 1160       ANSC 103       Unique         ANSC 1170       ANSC 261       Unique         ANSC 1180       ANSC 212       Unique         ANSC 2120       ANSC 288       Common         ANSC 2130       ANSC 290       Common         ANSC 2140       ANSC 285       Unique         ANSC 2150       ANSC 289       Unique         ANSC 2210       ANSC 289       Unique         ANSC 2310       ANSC 262       Common         ANSC 2330       ANSC 200       Common         ANSC 2340       ANSC 201       Common         ANTH 11156       ANTH 201G       Common         ANTH 111354       ANTH 201G	AEEC 499	AG E 499	N/A
AGRO 2160       AGRO 200       Unique         AGRO 2996       AGRO 200       Unique         ANSC-ANIMAL SCIENCE       VINITION       ANSC 220       Common         ANSC 1110       ANSC 100       Common         ANSC 1120H       ANSC 100 H       Unique         ANSC 1120L       ANSC 100 L       Unique         ANSC 1130       ANSC 190       Unique         ANSC 1140       ANSC 205       Unique         ANSC 1160       ANSC 103       Unique         ANSC 1170       ANSC 261       Unique         ANSC 1180       ANSC 212       Unique         ANSC 2130       ANSC 288       Common         ANSC 2130       ANSC 288       Common         ANSC 2140       ANSC 285       Unique         ANSC 2150       ANSC 289       Unique         ANSC 2160       ANSC 295       Unique         ANSC 2310       ANSC 202       Common         ANSC 2330       ANSC 200       Common         ANSC 2996       ANSC 201       Common         ANSC 2996       ANSC 250       Unique         ANTH 11156       ANTH 201G       Common         ANTH 11356       ANTH 130G       Common	AGRO-AGRONOMY		
AGRO 2996         AGRO 200         Unique           ANSC-ANIMAL SCIENCE         Common           ANSC 1110         ANSC 220         Common           ANSC 1120         ANSC 100         Common           ANSC 1120H         ANSC 100 H         Unique           ANSC 1120L         ANSC 100 L         Unique           ANSC 1130         ANSC 190         Unique           ANSC 1140         ANSC 205         Unique           ANSC 1160         ANSC 103         Unique           ANSC 1170         ANSC 261         Unique           ANSC 1180         ANSC 218         Common           ANSC 2130         ANSC 288         Common           ANSC 2130         ANSC 289         Unique           ANSC 2150         ANSC 289         Unique           ANSC 22160         ANSC 289         Unique           ANSC 2310         ANSC 262         Common           ANSC 2330         ANSC 200         Common           ANSC 2340         ANSC 201         Common           ANTH 11156         ANTH 201G         Common           ANTH 11156         ANTH 130G         Common           ANTH 1135L         ANTH 130GL         Common	AGRO 1110G	AGRO 100G	Common
ANSC-ANIMAL SCIENCE           ANSC 1110         ANSC 220         Common           ANSC 1120         ANSC 100         Common           ANSC 1120H         ANSC 100 H         Unique           ANSC 1120L         ANSC 100 L         Unique           ANSC 1130         ANSC 190         Unique           ANSC 1140         ANSC 205         Unique           ANSC 1160         ANSC 103         Unique           ANSC 1170         ANSC 261         Unique           ANSC 1180         ANSC 112         Unique           ANSC 2120         ANSC 288         Common           ANSC 2130         ANSC 290         Common           ANSC 2140         ANSC 285         Unique           ANSC 2150         ANSC 289         Unique           ANSC 2150         ANSC 289         Unique           ANSC 2310         ANSC 295         Unique           ANSC 2330         ANSC 200         Common           ANSC 2996         ANSC 201         Common           ANSC 2996         ANSC 200         Common           ANTH 11156         ANTH 2016         Common           ANTH 1135G         ANTH 130G         Common	AGRO 2160	AGRO 250	Unique
ANSC 1110 ANSC 220 Common ANSC 1120 ANSC 100 Common ANSC 1120H ANSC 100 H Unique ANSC 1120L ANSC 100 L Unique ANSC 1130 ANSC 190 Unique ANSC 1140 ANSC 205 Unique ANSC 1140 ANSC 103 Unique ANSC 1160 ANSC 103 Unique ANSC 1170 ANSC 261 Unique ANSC 1170 ANSC 261 Unique ANSC 1180 ANSC 122 Unique ANSC 2120 ANSC 288 Common ANSC 2120 ANSC 288 Common ANSC 2130 ANSC 290 Common ANSC 2140 ANSC 285 Unique ANSC 2140 ANSC 289 Unique ANSC 2150 ANSC 289 Unique ANSC 2150 ANSC 289 Unique ANSC 2150 ANSC 289 Unique ANSC 2310 ANSC 295 Unique ANSC 2310 ANSC 262 Common ANSC 2310 ANSC 200 Common ANSC 2330 ANSC 200 Common ANSC 2340 ANSC 201 Common ANSC 2996 ANSC 250 Unique ANTH 1115G ANTH 2016 Common ANTH 1115G ANTH 130G Common	AGRO 2996	AGRO 200	Unique
ANSC 1120         ANSC 100 H         Unique           ANSC 1120L         ANSC 100 L         Unique           ANSC 1130         ANSC 190         Unique           ANSC 1140         ANSC 205         Unique           ANSC 1160         ANSC 103         Unique           ANSC 1170         ANSC 261         Unique           ANSC 1180         ANSC 112         Unique           ANSC 2120         ANSC 288         Common           ANSC 2130         ANSC 290         Common           ANSC 2140         ANSC 285         Unique           ANSC 2150         ANSC 289         Unique           ANSC 2310         ANSC 295         Unique           ANSC 2310         ANSC 262         Common           ANSC 2330         ANSC 200         Common           ANSC 2340         ANSC 201         Common           ANSC 2996         ANSC 250         Unique           ANTH-ANTHROPOLOGY         ANTH 201G         Common           ANTH 1135G         ANTH 130G         Common           ANTH 1135L         ANTH 130GL         Common	ANSC-ANIMAL SCIENCE		
ANSC 1120H ANSC 1120L ANSC 1130 ANSC 190 Unique ANSC 1140 ANSC 1140 ANSC 103 Unique ANSC 1160 ANSC 103 Unique ANSC 1170 ANSC 1170 ANSC 261 ANSC 1180 ANSC 112 ANSC 2120 ANSC 2120 ANSC 288 Common ANSC 230 ANSC 285 Unique ANSC 2130 ANSC 285 Unique ANSC 2150 ANSC 285 Unique ANSC 2150 ANSC 289 Unique ANSC 2150 ANSC 290 Common ANSC 2150 ANSC 295 Unique ANSC 2160 ANSC 295 Unique ANSC 2170 ANSC 296 ANSC 290 ANSC 296 ANSC 297 ANSC 297 ANSC 2180 ANSC 298 Unique ANSC 2160 ANSC 295 Unique ANSC 2170 ANSC 296 ANSC 297 ANSC 201 ANSC 200 Common ANSC 2310 ANSC 200 Common ANSC 2340 ANSC 201 Common ANSC 2996 ANSC 250 Unique ANTH-115G ANTH 201G Common ANTH 1135G ANTH 130G Common ANTH 1135C ANTH 130G Common	ANSC 1110	ANSC 220	Common
ANSC 1120L       ANSC 100 L       Unique         ANSC 1130       ANSC 190       Unique         ANSC 1140       ANSC 205       Unique         ANSC 1160       ANSC 103       Unique         ANSC 1170       ANSC 261       Unique         ANSC 1180       ANSC 112       Unique         ANSC 2120       ANSC 288       Common         ANSC 2130       ANSC 290       Common         ANSC 2140       ANSC 285       Unique         ANSC 2150       ANSC 289       Unique         ANSC 2160       ANSC 295       Unique         ANSC 2310       ANSC 295       Unique         ANSC 2310       ANSC 262       Common         ANSC 2330       ANSC 200       Common         ANSC 2996       ANSC 201       Common         ANSC 2996       ANSC 250       Unique         ANTH-ANTHROPOLOGY       ANTH 1115G       ANTH 201G       Common         ANTH 1135G       ANTH 130G       Common         ANTH 1135L       ANTH 130GL       Common	ANSC 1120	ANSC 100	Common
ANSC 1130       ANSC 190       Unique         ANSC 1140       ANSC 205       Unique         ANSC 1160       ANSC 103       Unique         ANSC 1170       ANSC 261       Unique         ANSC 1180       ANSC 112       Unique         ANSC 2120       ANSC 288       Common         ANSC 2130       ANSC 290       Common         ANSC 2140       ANSC 285       Unique         ANSC 2150       ANSC 289       Unique         ANSC 2160       ANSC 295       Unique         ANSC 2310       ANSC 262       Common         ANSC 2330       ANSC 200       Common         ANSC 2340       ANSC 201       Common         ANSC 2996       ANSC 250       Unique         ANTH-ANTHROPOLOGY       ANTH 201G       Common         ANTH 1135G       ANTH 130G       Common         ANTH 1135L       ANTH 130GL       Common	ANSC 1120H	ANSC 100 H	Unique
ANSC 1140 ANSC 103 ANSC 1160 ANSC 1170 ANSC 261 ANSC 1180 ANSC 2120 ANSC 2120 ANSC 2120 ANSC 2130 ANSC 290 Common ANSC 2140 ANSC 2150 ANSC 285 Unique ANSC 2150 ANSC 289 Unique ANSC 2160 ANSC 295 Unique ANSC 2310 ANSC 295 Unique ANSC 2310 ANSC 295 Common ANSC 2310 ANSC 201 ANSC 201 Common ANSC 2310 ANSC 200 Common ANSC 2330 ANSC 200 Common ANSC 2340 ANSC 201 Common ANSC 296 ANSC 296 ANSC 250 Unique ANSC 297 Common ANSC 298 ANSC 201 Common ANSC 201 ANSC 201 Common ANSC 201 ANSC 201 Common ANSC 200 ANSC 200 ANSC 200 Common ANSC 200 ANSC 200 Common ANSC 200 ANSC 200 Common ANSC 200 Common ANSC 200 ANSC 200 Common ANST 200 Common ANST 200 ANST 200 ANST 200 ANSC 200 Common ANST 200 Common ANST 200 ANST 200 ANST 200 Common ANST 200 ANST 200 ANST 200 Common ANST 200 ANST 200 ANST 200 ANST 200 ANST 200 ANST 200 Common ANST 200 A	ANSC 1120L	ANSC 100 L	Unique
ANSC 1160  ANSC 1170  ANSC 261  Unique  ANSC 1180  ANSC 2112  Unique  ANSC 2120  ANSC 288  Common  ANSC 2130  ANSC 290  Common  ANSC 2140  ANSC 285  Unique  ANSC 2150  ANSC 289  Unique  ANSC 2160  ANSC 295  Unique  ANSC 2310  ANSC 262  Common  ANSC 2310  ANSC 262  Common  ANSC 2330  ANSC 200  Common  ANSC 2340  ANSC 201  ANSC 201  Common  ANSC 296  ANSC 296  ANSC 297  ANSC 2996  ANSC 250  Unique  ANSC 2906  ANSC 201  Common  ANSC 2906  ANSC 201  Common  ANSC 2906  ANSC 201  Common  ANSC 2906  ANSC 250  Unique  ANTH-ANTHROPOLOGY  ANTH 1156  ANTH 2016  ANTH 2016  Common  ANTH 1135G  ANTH 130G  Common  ANTH 135G  ANTH 130G  Common	ANSC 1130	ANSC 190	Unique
ANSC 1170       ANSC 261       Unique         ANSC 1180       ANSC 112       Unique         ANSC 2120       ANSC 288       Common         ANSC 2130       ANSC 290       Common         ANSC 2140       ANSC 285       Unique         ANSC 2150       ANSC 289       Unique         ANSC 2160       ANSC 295       Unique         ANSC 2310       ANSC 262       Common         ANSC 2330       ANSC 200       Common         ANSC 2340       ANSC 201       Common         ANSC 2996       ANSC 250       Unique         ANTH-ANTHROPOLOGY       ANTH 201G       Common         ANTH 1135G       ANTH 130G       Common         ANTH 1135L       ANTH 130GL       Common	ANSC 1140	ANSC 205	Unique
ANSC 1180 ANSC 112 Unique  ANSC 2120 ANSC 288 Common  ANSC 2130 ANSC 290 Common  ANSC 2140 ANSC 285 Unique  ANSC 2150 ANSC 289 Unique  ANSC 2160 ANSC 295 Unique  ANSC 2310 ANSC 262 Common  ANSC 2310 ANSC 262 Common  ANSC 2330 ANSC 200 Common  ANSC 2330 ANSC 201 Common  ANSC 2340 ANSC 201 Common  ANSC 2996 ANSC 250 Unique  ANTH-ANTHROPOLOGY  ANTH 1115G ANTH 201G Common  ANTH 1135G ANTH 130G Common  ANTH 1135L ANTH 130GL Common	ANSC 1160	ANSC 103	Unique
ANSC 2120 ANSC 290 Common ANSC 2140 ANSC 285 Unique ANSC 2150 ANSC 289 Unique ANSC 2160 ANSC 295 Unique ANSC 2310 ANSC 262 Common ANSC 2330 ANSC 200 Common ANSC 2340 ANSC 201 Common ANSC 296 ANSC 250 Unique Common ANSC 297 Common ANSC 208 ANSC 2096 ANSC 201 Common ANSC 2096 ANSC 250 Common ANSC 2996 ANSC 250 Common ANSC 2996 ANSC 250 Common ANSTH-ANTHROPOLOGY ANTH 1115G ANTH 201G ANTH 30G Common ANTH 1135L ANTH 130G Common	ANSC 1170	ANSC 261	Unique
ANSC 2130       ANSC 290       Common         ANSC 2140       ANSC 285       Unique         ANSC 2150       ANSC 289       Unique         ANSC 2160       ANSC 295       Unique         ANSC 2310       ANSC 262       Common         ANSC 2330       ANSC 200       Common         ANSC 2340       ANSC 201       Common         ANSC 2996       ANSC 250       Unique         ANTH-ANTHROPOLOGY       ANTH 201G       Common         ANTH 1135G       ANTH 130G       Common         ANTH 1135L       ANTH 130GL       Common	ANSC 1180	ANSC 112	Unique
ANSC 2140       ANSC 285       Unique         ANSC 2150       ANSC 289       Unique         ANSC 2160       ANSC 295       Unique         ANSC 2310       ANSC 262       Common         ANSC 2330       ANSC 200       Common         ANSC 2340       ANSC 201       Common         ANSC 2996       ANSC 250       Unique         ANTH-ANTHROPOLOGY       ANTH 201G       Common         ANTH 1135G       ANTH 130G       Common         ANTH 1135L       ANTH 130GL       Common	ANSC 2120	ANSC 288	Common
ANSC 2150 ANSC 289 Unique  ANSC 2160 ANSC 295 Unique  ANSC 2310 ANSC 262 Common  ANSC 2330 ANSC 200 Common  ANSC 2340 ANSC 201 Common  ANSC 2996 ANSC 250 Unique  ANTH-ANTHROPOLOGY  ANTH 1115G ANTH 201G Common  ANTH 1135G ANTH 130G Common  ANTH 1135L ANTH 130GL Common	ANSC 2130	ANSC 290	Common
ANSC 2160 ANSC 295 Unique  ANSC 2310 ANSC 262 Common  ANSC 2330 ANSC 200 Common  ANSC 2340 ANSC 201 Common  ANSC 2996 ANSC 250 Unique  ANTH-ANTHROPOLOGY  ANTH 1115G ANTH 201G Common  ANTH 1135G ANTH 130G Common  ANTH 1135L ANTH 130GL Common	ANSC 2140	ANSC 285	Unique
ANSC 2310 ANSC 262 Common  ANSC 2330 ANSC 200 Common  ANSC 2340 ANSC 201 Common  ANSC 2996 ANSC 250 Unique  ANTH-ANTHROPOLOGY  ANTH 1115G ANTH 201G Common  ANTH 1135G ANTH 130G Common  ANTH 1135L ANTH 130GL Common	ANSC 2150	ANSC 289	Unique
ANSC 2330 ANSC 200 Common  ANSC 2340 ANSC 201 Common  ANSC 2996 ANSC 250 Unique  ANTH-ANTHROPOLOGY  ANTH 1115G ANTH 201G Common  ANTH 1135G ANTH 130G Common  ANTH 1135L ANTH 130GL Common	ANSC 2160	ANSC 295	Unique
ANSC 2340 ANSC 201 Common  ANSC 2996 ANSC 250 Unique  ANTH-ANTHROPOLOGY  ANTH 1115G ANTH 201G Common  ANTH 1135G ANTH 130G Common  ANTH 1135L ANTH 130GL Common	ANSC 2310	ANSC 262	Common
ANSC 2996       ANSC 250       Unique         ANTH-ANTHROPOLOGY       ANTH 201G       Common         ANTH 1135G       ANTH 130G       Common         ANTH 1135L       ANTH 130GL       Common	ANSC 2330	ANSC 200	Common
ANTH-ANTHROPOLOGY           ANTH 1115G         ANTH 201G         Common           ANTH 1135G         ANTH 130G         Common           ANTH 1135L         ANTH 130GL         Common	ANSC 2340	ANSC 201	Common
ANTH 1115G         ANTH 201G         Common           ANTH 1135G         ANTH 130G         Common           ANTH 1135L         ANTH 130GL         Common	ANSC 2996	ANSC 250	Unique
ANTH 1135G         ANTH 130G         Common           ANTH 1135L         ANTH 130GL         Common	ANTH-ANTHROPOLOGY		
ANTH 1135L ANTH 130GL Common	ANTH 1115G	ANTH 201G	Common
	ANTH 1135G	ANTH 130G	Common
	ANTH 1135L	ANTH 130GL	Common
ANTH 1136 ANTH 118 Unique	ANTH 1136	ANTH 118	Unique
ANTH 1137G ANTH 120G Unique	ANTH 1137G		
ANTH 1140G ANTH 125G Common	ANTH 1140G	ANTH 125G	Common
ANTH 1160G ANTH 202G Common	ANTH 1160G	ANTH 202G	Common
	ANTH 2140G	ANTH 115	Common
	ANTH 2140G	ANTH 115	Common

ANTH 2150	ANTH 116	Common
ANTH 2996	ANTH 297	Unique
ARCH-ARCHITECTURE		
ARCH 1105	ARCT 150	Unique
ARCH 1110	ARCT 104	Common
ARCH 1112	ARCT 124	Unique
ARCH 1114	ARCT 154	Unique
ARCH 1120	ARCT 101	Common
ARCH 1121	ARCT 170	Unique
ARCH 1122	ARCT 204	Unique
ARCH 1220	ARCT 111	Unique
ARCH 2111	ARCT 210	Unique
ARCH 2113	ARCT 224	Unique
ARCH 2114	ARCT 250	Unique
ARCH 2115	ARCT 254	Unique
ARCH 2116	ARCT 260	Unique
ARCH 2122	ARCT 274	Unique
ARCH 2124	ARCT 295	Unique
ARCH 2220	ARCT 211	Unique
ARCH 2994	ARCT 264	Unique
ARCH 2995	ARCT 291	Unique
ARCH 2996	ARCT 290	Unique
ARTH-ART HISTORY		
ARTH 1115G	ART 101G	Common
ARTH 2110G	ART 295G	Common
ARTH 2120G	ART 296G	Common
ARTH 300	ART 300	N/A
ARTH 305	ART 305	N/A
ARTH 306	ART 306	N/A
ARTH 310	ART 310	N/A
ARTH 311	ART 311	N/A
ARTH 312	ART 312	N/A
ARTH 321	ART 321	N/A
ARTH 323	ART 323	N/A
ARTH 325	ART 325	N/A
ARTH 329	ART 329	N/A
ARTH 330	ART 330	N/A
ARTH 333	ART 333	N/A
ARTH 336	ART 336	N/A
ARTH 337	ART 337	N/A
ARTH 338	ART 338	N/A
ARTH 339	ART 339	N/A
ARTH 342	ART 342	N/A
ARTH 343	ART 343	N/A
ARTH 354	ART 354	N/A
ARTH 390	ART 390	N/A
ARTH 392	ART 392	N/A
ARTH 444	ART 444	N/A
ARTH 477	ART 477	N/A
ARTH 478	ART 478	N/A
ARTH 479	ART 479	N/A
ARTH 497	ART 497	N/A
		•

ARTH 500	ART 500	N/A
ARTH 505	ART 505	N/A
ARTH 506	ART 506	N/A
ARTH 510	ART 510	N/A
ARTH 511	ART 511	N/A
ARTH 512	ART 512	N/A
ARTH 520	ART 520	N/A
ARTH 521	ART 521	N/A
ARTH 523	ART 523	N/A
ARTH 525	ART 525	N/A
ARTH 530	ART 530	N/A
ARTH 533	ART 533	N/A
ARTH 536	ART 536	N/A
ARTH 537	ART 537	N/A
ARTH 538	ART 538	N/A
ARTH 539	ART 539	N/A
ARTH 542	ART 542	N/A
ARTH 543	ART 543	N/A
ARTH 578	ART 578	N/A
ARTH 579	ART 579	N/A
ARTH 590	ART 590	N/A
ARTH 591	ART 591	N/A
ARTH 592	ART 592	N/A
ARTH 597	ART 597	N/A
ARTH 599	ART 599	N/A
ARTS-ART STUDIO		.,,,
ARTS 1145G	ART 110G	Unique
ARTS 1145G ARTS 1212	ART 110G ART 157	Unique Unique
ARTS 1212	ART 157	Unique
ARTS 1212 ARTS 1240	ART 157 ART 155	Unique Common
ARTS 1212 ARTS 1240 ARTS 1250	ART 157 ART 155 ART 156	Unique Common Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310	ART 157 ART 155 ART 156 ART 275	Unique Common Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320	ART 157 ART 155 ART 156 ART 275 ART 276	Unique Common Common Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270	Unique Common Common Common Common Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161	Unique Common Common Common Common Common Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272	Unique Common Common Common Common Common Common Common Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150	Unique Common Common Common Common Common Common Common Common Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250	Unique Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1630	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250 ART 260	Unique Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1630 ARTS 1710	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250 ART 260 ART 280	Unique Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1610 ARTS 1711	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250 ART 260 ART 280 ART 160	Unique Common Unique
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1610 ARTS 1711 ARTS 1711	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250 ART 260 ART 280 ART 160 ART 163	Unique Common Unique Unique
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1610 ARTS 1711 ARTS 1711 ARTS 1711	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250 ART 250 ART 260 ART 280 ART 163 ART 163 ART 165	Unique Common Unique Unique Unique
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1610 ARTS 1711 ARTS 1711 ARTS 1712 ARTS 1713 ARTS 1810	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250 ART 250 ART 260 ART 280 ART 163 ART 163 ART 165 ART 285	Unique Common Unique Unique Unique Unique Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610 ARTS 1610 ARTS 16110 ARTS 17110 ARTS 17111 ARTS 17112 ARTS 1712 ARTS 1713 ARTS 1810 ARTS 2010	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250 ART 250 ART 260 ART 280 ART 163 ART 163 ART 165 ART 285 ART 267	Unique Common Unique Unique Unique Unique Common Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1711 ARTS 1711 ARTS 1711 ARTS 1712 ARTS 1713 ARTS 2010 ARTS 2355	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250 ART 260 ART 280 ART 163 ART 165 ART 285 ART 285 ART 286	Unique Common Unique Unique Unique Unique Common Common Common Unique Unique Unique Unique Unique Unique
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1610 ARTS 1711 ARTS 1711 ARTS 1711 ARTS 1712 ARTS 1713 ARTS 2010 ARTS 2355 ARTS 2410	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250 ART 250 ART 260 ART 163 ART 163 ART 165 ART 285 ART 286 OEPT 100	Unique Common Unique Unique Unique Unique Common Unique Common Common Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1610 ARTS 1610 ARTS 1711 ARTS 1712 ARTS 1712 ARTS 1713 ARTS 2010 ARTS 2355 ARTS 2410 ARTS 2430	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250 ART 260 ART 280 ART 163 ART 163 ART 165 ART 285 ART 285 ART 286 OEPT 100 OEPT 155	Unique Common Unique Unique Unique Unique Unique Common Common Common Common Common Common Common Unique Common Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1610 ARTS 1711 ARTS 1712 ARTS 1712 ARTS 1713 ARTS 2010 ARTS 2355 ARTS 2430 ARTS 2431	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250 ART 260 ART 280 ART 163 ART 165 ART 285 ART 285 ART 286 OEPT 100 OEPT 155 ART 255	Unique Common Unique Unique Unique Unique Unique Common Common Common Common Common Unique Unique Unique Unique Unique Unique Common Common Unique
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1610 ARTS 1711 ARTS 1711 ARTS 1711 ARTS 1712 ARTS 1713 ARTS 2010 ARTS 2355 ARTS 2440 ARTS 2431 ARTS 2440	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250 ART 260 ART 280 ART 163 ART 165 ART 285 ART 285 ART 285 ART 267 ART 286 OEPT 100 OEPT 155 ART 255 OEPT 120	Unique Common Unique Unique Unique Unique Common Common Unique
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1610 ARTS 1711 ARTS 1711 ARTS 1712 ARTS 1713 ARTS 1810 ARTS 2010 ARTS 2355 ARTS 2440 ARTS 2440 ARTS 2610	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250 ART 250 ART 260 ART 163 ART 165 ART 285 ART 285 ART 285 ART 267 ART 286 OEPT 100 OEPT 155 ART 255 OEPT 120 ART 151	Unique Common Unique Unique Unique Unique Common Unique Unique Common Unique Common Unique Common Unique Common Unique Common Unique Common
ARTS 1212 ARTS 1240 ARTS 1250 ARTS 1310 ARTS 1320 ARTS 1410 ARTS 1520 ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1610 ARTS 1711 ARTS 1711 ARTS 1711 ARTS 1712 ARTS 1713 ARTS 2010 ARTS 2355 ARTS 2440 ARTS 2431 ARTS 2440	ART 157 ART 155 ART 156 ART 275 ART 276 ART 270 ART 161 ART 272 ART 150 ART 250 ART 260 ART 280 ART 163 ART 165 ART 285 ART 285 ART 285 ART 267 ART 286 OEPT 100 OEPT 155 ART 255 OEPT 120	Unique Common Unique Unique Unique Unique Common Common Unique

ADTO OCOO	ARTOG	
ARTS 2630	ART 261	Common
ARTS 2635	ART 262	Common
ARTS 2671	ART 298	Unique
ARTS 2839	ART 265	Unique
ARTS 2993	ART 208	Unique
ARTS 2996	ART 294	Unique
ARTS 308	ART 308	N/A
ARTS 340	ART 340	N/A
ARTS 350	ART 350	N/A
ARTS 355	ART 355	N/A
ARTS 360	ART 360	N/A
ARTS 365	ART 365	N/A
ARTS 370	ART 370	N/A
ARTS 373	ART 373	N/A
ARTS 374	ART 374	N/A
ARTS 375	ART 375	N/A
ARTS 376	ART 376	N/A
ARTS 380	ART 380	N/A
ARTS 385	ART 385	N/A
ARTS 394	ART 394	N/A
ARTS 401	ART 401	N/A
ARTS 402	ART 402	N/A
ARTS 403	ART 403	N/A
ARTS 404	ART 404	N/A
ARTS 440	ART 440	N/A
ARTS 450	ART 450	N/A
ARTS 455	ART 455	N/A
ARTS 465	ART 465	N/A
ARTS 470	ART 470	N/A
ARTS 473	ART 473	N/A
ARTS 474	ART 474	N/A
ARTS 475	ART 475	N/A
ARTS 476	ART 476	N/A
ARTS 480	ART 480	N/A
ARTS 485	ART 485	N/A
ARTS 490	ART 490	N/A
ARTS 494	ART 494	N/A
ARTS 495	ART 495	N/A
ARTS 496	ART 496	N/A
ARTS 499	ART 499	N/A
ARTS 501	ART 501	N/A
ARTS 502	ART 502	N/A
ARTS 503	ART 503	N/A
ARTS 504	ART 504	N/A
ARTS 540	ART 540	N/A
ARTS 550	ART 550	N/A
ARTS 555	ART 555	N/A
ARTS 560	ART 560	N/A
ARTS 565	ART 565	N/A
ARTS 570	ART 570	N/A
ARTS 575	ART 575	N/A
ARTS 576	ART 576	N/A

AIT S 580         AIT 589         N/A           AIT 5 95         AIT 599         N/A           AIT 5 96         AIT 599         N/A           AIT 5 98         AIT 599         N/A           ASTR ASTS 65         AIT 598         N/A           ASTR ASTROMONY         WE           ASTR 1116         ASTR 1199         Unique           ASTR 11120         ASTR 1199         Unique           ASTR ASTROMONY         WE         Unique           ASTR 11120         ASTR 1199         Unique           ASTR 1120         ASTR 1199         Unique           AKED 110         ASED 10         Unique           AKED 1110         ASED 200         Unique           AKED 1110         AKED 105         Unique           AKED 2110         AKED 205         Common           AKED 2110         AKED 200         Unique           AKED 2140         AKED 202         Unique           BOIS-BUSINESS COMPUTER SYSTEMS         SCIS 110         Common           BUS 1110         C S 110<			
ART 595         ART 596         N/A           ARTS 596         ART 596         N/A           ARTS 596         ART 598         N/A           ARTS 597         ART 598         N/A           ASTEATSTONOW         STATE 1116         ASTA 1199         Unique           ASTE 1116         ASTA 1199         Unique           ASTE 1110         ASED 105         Unique           AKED 1110         AXED 200         Unique           AKED 1130         AXED 201         Unique           AKED 2130         AXED 205         Common           AKED 2130         AXED 201         Unique           AXED 2130         AXED 203         Unique           AXED 2140         AXED 203         Unique           AXED 2170         AXED 203         Unique           AXED 2180         AXED 203         Unique           AXED 2180         AXED 200         Unique           BYS 200         AXED 200         Unique           BYS 200         AXED 200         Unique <th< td=""><td>ARTS 580</td><td>ART 580</td><td>N/A</td></th<>	ARTS 580	ART 580	N/A
ARTS 596         ART 598         N/A           ARTS 598         ART 598         N/A           ASTR 1186         ASTR 110G         Common           ASTR 1110         ASTR 199         Unique           ASTR 1110         ASTR 1096         Unique           ASTR 1110         ASTR 1096         Unique           ASTR 1110         ASTR 1096         Unique           AKED 1110         AXED 100         Unique           AXED 1110         AXED 240         Unique           AXED 2110         AXED 2016         Unique           AXED 2130         AXED 203         Unique           AXED 2130         AXED 220         Unique           AXED 2130         AXED 200         Unique           BOIS 31110         Common         Demonstrated           BOIS 3110         Common         Demonstrated           BOI	ARTS 585	ART 585	N/A
ARTS 598         ART 598         N/A           ASTR AITNONOW         ASTR 1106         Common           ASTR 1116         ASTR 1109         Unique           ASTR 11106         ASTR 1106         Unique           AKED ARTO 1120         AXED 100         Unique           AKED 1110         AXED 100         Unique           AXED 1130         AXED 105         Unique           AXED 1130         AXED 205         Common           AXED 21206         AXED 230         Unique           AXED 2130         AXED 232         Unique           AXED 2140         AXED 232         Unique           AXED 2130         AXED 232         Unique           AXED 2140         AXED 232         Unique           AXED 2130         AXED 232         Unique           AXED 2140         AXED 232         Unique           AXED 2170         EXED 232         Unique           AXED 2180         AXED 230         Unique           AXED 2190         AXED 232         Unique           AXED 2100         AXED 230         Unique           AXED 2120         AXED 232         Unique           AXED 2140         AXED 230         Common <t< td=""><td>ARTS 595</td><td>ART 595</td><td>N/A</td></t<>	ARTS 595	ART 595	N/A
ASTR ASTRONOMY         ASTR 110G         Common           ASTR 1110G         ASTR 109G         Unique           ASTR 110G         ASTR 109G         Unique           ASTR 110G         ASTR 109G         Unique           AKED 1110         AXED 100         Unique           AXED 1120         AXED 240         Unique           AXED 2110         AXED 2016         Unique           AXED 2110         AXED 2016         Unique           AXED 2130         AXED 230         Unique           AXED 2130         AXED 230         Unique           AXED 2130         AXED 2130         Unique           BSUSSINES         COMMON         Ommon           BCIS 1110         Common         Ommon           BFIN 2110         FIN 226         Common	ARTS 596	ART 596	N/A
ASTR 11156         ASTR 1109         Unique           ASTR 1110         ASTR 1086         Unique           ASTR 1108         ASTR 1086         Unique           AKED-ARRICUTURAL EXTR EDUC         XED           AKED 1110         AXED 100         Unique           AXED 1120         AXED 205         Common           AXED 2106         AXED 2016         Unique           AXED 2109         AXED 220         Unique           AXED 2140         AXED 230         Unique           AXED 2196         AXED 220         Unique           AXED 2190         AXED 230         Unique           AXED 2190         AXED 230         Unique           AXED 2190         AXED 220         Unique           AXED 2190         AXED 230         Unique           AXED 2190         AXED 230         Unique           AXED 2190         AXED 220         Unique           AXED 2190	ARTS 598	ART 598	N/A
ASTR 11106         ASTR 199         Unique           ASTR 11206         ASTR 105         Unique           ASTR 11100         ASED 100         Unique           AKED 1110         AXED 105         Unique           AXED 1130         AXED 205         Common           AXED 2110         AXED 2016         Unique           AXED 2130         AXED 230         Unique           AXED 2130         AXED 230         Unique           AXED 2140         AXED 230         Unique           AXED 21996         AXED 200         Unique           BUSINISES COMPUTER SYSTEMS         Unique           EUS 1110         BCIS 110         Common           BCIS 1110         Common         Description           BCIS 1110         PIN 206         Common           BCIS 1110         PIN 206         Common           BFIN 2110         FIN 206         Common           BFIN 2110         FIN 206         Common           BFIN 321         FIN 303W         FIN 303	ASTR-ASTRONOMY		
ASTR 11200         ASTR 1050         Unique           AKED ARCHULTURAL EXTR EDUC         XED 240         Unique           AKED 1120         AXED 240         Unique           AXED 1130         AXED 205         Common           AXED 2110         AXED 205         Common           AXED 21206         AXED 2016         Unique           AXED 2130         AXED 232         Unique           AXED 2140         AXED 232         Unique           AXED 2180         AXED 232         Unique           AXED 2180         AXED 230         Unique           AXED 2180         AXED 232         Unique           AXED 2181         AXED 240         Unique	ASTR 1115G	ASTR 110G	Common
AKED AGRICULTURAL EXTN EDUC           AXED 1110         AXED 120         Unique           AXED 1130         AXED 106         Unique           AXED 1130         AXED 2016         Unique           AXED 21206         AXED 2016         Unique           AXED 2130         AXED 230         Unique           AXED 2140         AXED 230         Unique           AXED 2196         AXED 230         Unique           AXED 2180         AXED 230         Unique           AXED 2190         AXED 230         Unique           AXED 2140         AXED 230         Unique           AXED 2180         AXED 230         Unique           AXED 2190         AXED 230         Unique           AXED 2100         AXED 230         Unique           AXED 2110         ES 1110         Common           BIN 1210         FIN 206         Common           BIN 32110         FIN 321         N/A           BIN 321         FIN 321         N/A           BIN 322         FIN 322         N/A           BIN 323         N/A         A           BIN 324         FIN 325         N/A           BIN 325         FIN 326         N/A	ASTR 1116	ASTR 199	Unique
AXED 110         AXED 140         Unique           AXED 1120         AXED 140         Unique           AXED 110         AXED 240         Unique           AXED 2110         AXED 205         Common           AXED 21206         AXED 2210         Unique           AXED 2130         AXED 232         Unique           AXED 2140         AXED 232         Unique           AXED 2196         AXED 200         Unique           BUSI 110         Common         Common           BUSI 110         C \$110         Common           BUSI 110         E \$10         Common           BIN 2110         FIN 266         Common           BIN 2110         FIN 206         Common           BIN 321         FIN 207         Common           BIN 321         FIN 200         Common           BIN 321         FIN 321         N/A           BIN 322         FIN 322         N/A           BIN 323         FIN 322         N/A           BIN 324         FIN 325         N/A           BIN 325         FIN 326         N/A           BIN 326         FIN 327         N/A           BIN 327         N/A         A	ASTR 1120G	ASTR 105G	Unique
AXED 1120         AXED 140         Unique           AXED 1130         AXED 105         Unique           AXED 2110         AXED 2016         Unique           AXED 2130         AXED 230         Unique           AXED 2140         AXED 232         Unique           AXED 2296         AXED 202         Unique           EGIS-BUSINESS COMPUTER SYSTEMS         Unique           BCIS 1110         Common         Common           BCIS 1110         ES 1010         Common           BCIS 1110         FIN 206         Common           BFIN-BUSINESS FINANCE         FIN 210         Common           BFIN 2110         FIN 210         Common           BFIN 3211         FIN 210         Common           BFIN 3212         FIN 321         N/A           BFIN 322         FIN 322         N/A           BFIN 323         FIN 322         N/A           BFIN 325         FIN 324         N/A           BFIN 326         FIN 326         N/A           BFIN 327         FIN 327         N/A           BFIN 328         FIN 329         N/A           BFIN 329         FIN 350         N/A           BFIN 329         N/A <t< td=""><td>AXED-AGRICULTURAL EXTN EDUC</td><td></td><td></td></t<>	AXED-AGRICULTURAL EXTN EDUC		
AXED 1130         AXED 205         Common           AXED 2110         AXED 2016         Unique           AXED 2130         AXED 230         Unique           AXED 2140         AXED 232         Unique           AXED 2180         AXED 230         Unique           AXED 2196         AXED 230         Unique           BOSSBUSHESS COMPUTER SYSTEMS         Unique         Common           BCIS 1110         Common         Common           BCIS 1110         Common         Common           BFIN 2110         FIN 206         Common           BFIN 2110         FIN 210         Common           BFIN 2110         FIN 220         N/A           BFIN 2110         FIN 210         Common           BFIN 2110         FIN 220         N/A           BFIN 221         FIN 221         N/A           BFIN 222         FIN 222         N/A           BFIN 323         FIN 226         N/A           BFIN 326         FIN 226         N/A           BFIN 327         F	AXED 1110	AXED 100	Unique
AXED 2110         AXED 201G         Common           AXED 2120G         AXED 201G         Unique           AXED 2140         AXED 232         Unique           AXED 2140         AXED 232         Unique           AXED 2996         AXED 200         Unique           BXED 58USINESS COMPUTER SYSTEMS         UNIQUE           BCIS 1110         BCIS 110         Common           BCIS 1110         Common         Common           BFIN 2110         FIN 206         Common           BFIN 2110         FIN 206         Common           BFIN 2110         FIN 206         Common           BFIN 2110         FIN 207         N/A           BFIN 311         FIN 303V         N/A           BFIN 312         FIN 303V         N/A           BFIN 323         FIN 323         N/A           BFIN 324         FIN 323         N/A           BFIN 325         FIN 326         N/A           BFIN 327         FIN 327         N/A           BFIN 328         FIN 326         N/A           BFIN 329         FIN 355         N/A           BFIN 320         FIN 350         N/A           BFIN 320         FIN 320         N/A	AXED 1120	AXED 240	Unique
AXED 2120G         AXED 2010         Unique           AXED 2130         AXED 202         Unique           AXED 2140         AXED 202         Unique           AXED 2996         AXED 200         Unique           BCIS 1110         Common         Common           BCIS 1110         Common         Common           BCIS 1110         FIN 2010         Common           BFIN 2110         FIN 206         Common           BFIN 2110         FIN 210         Common           BFIN 2110         FIN 210         Common           BFIN 303V         FIN 303V         N/A           BFIN 311         FIN 321         N/A           BFIN 322         FIN 322         N/A           BFIN 323         FIN 322         N/A           BFIN 324         FIN 325         N/A           BFIN 325         FIN 326         N/A           BFIN 326         FIN 326         N/A           BFIN 327         FIN 327         N/A           BFIN 328         FIN 326         N/A           BFIN 329         FIN 326         N/A           BFIN 329         FIN 326         N/A           BFIN 329         FIN 326         N/A     <	AXED 1130	AXED 105	Unique
AXED 2130         AXED 230         Unique           AXED 2140         AXED 292         Unique           AXED 2996         AXED 200         Unique           BCIS 1110         Common           BCIS 1110         Common           BCIS 1110         Common           BFIN 2110         FIN 206         Common           BFIN 2110         FIN 206         Common           BFIN 303V         FIN 303V         N/A           BFIN 311         FIN 311         N/A           BFIN 322         FIN 322         N/A           BFIN 323         FIN 322         N/A           BFIN 324         FIN 325         N/A           BFIN 325         FIN 326         N/A           BFIN 326         FIN 327         N/A           BFIN 327         FIN 327         N/A           BFIN 328         FIN 327         N/A           BFIN 329         FIN 327         N/A           BFIN 329         FIN 320         N/A           BFIN 339         FIN 360         N/A           BFIN 393         FIN 360         N/A           BFIN 393         FIN 392         N/A <th< td=""><td>AXED 2110</td><td>AXED 205</td><td>Common</td></th<>	AXED 2110	AXED 205	Common
AXED 2140         AXED 203         Unique           AXED 2996         AXED 200         Unique           BCIS-BUSINESS COMPUTER SYSTEMS         VIII           BCIS 11110         BCIS 1110         Common           BCIS 11110         BCIS 110         Common           BFIN 21010         FIN 206         Common           BFIN 2110         FIN 210         Common           BFIN 303V         FIN 303V         N/A           BFIN 311         N/A         MA           BFIN 322         FIN 322         N/A           BFIN 323         FIN 323         N/A           BFIN 324         N/A         A           BFIN 325         FIN 325         N/A           BFIN 326         FIN 325         N/A           BFIN 327         N/A         A           BFIN 328         FIN 327         N/A           BFIN 341         FIN 327         N/A           BFIN 341         FIN 341         N/A           BFIN 329         N/A         A           BFIN 330         FIN 391         N/A           BFIN 392         N/A         A           BFIN 393         N/A         A           BFIN 456 <td>AXED 2120G</td> <td>AXED 201G</td> <td>Unique</td>	AXED 2120G	AXED 201G	Unique
AXED 2996         AXED 200         Unique           BCIS-BUSINESS COMPUTER SYSTEMS         Common           BCIS 1110         BCIS 1110         Common           BCIS 1110         C S 110         Common           BFIN 20110         FIN 2016         Common           BFIN 2110         FIN 210         Common           BFIN 303V         FIN 303V         N/A           BFIN 311         FIN 311         N/A           BFIN 322         N/A         A           BFIN 323         FIN 323         N/A           BFIN 324         FIN 324         N/A           BFIN 325         FIN 326         N/A           BFIN 326         FIN 326         N/A           BFIN 327         FIN 327         N/A           BFIN 327         FIN 327         N/A           BFIN 328         FIN 327         N/A           BFIN 329         FIN 341         N/A           BFIN 329         FIN 355         N/A           BFIN 390         FIN 395         N/A           BFIN 391         N/A         FIN 393           BFIN 392         FIN 393         N/A           BFIN 421         N/A         FIN 425	AXED 2130	AXED 230	Unique
BCIS II10         BCIS II10         Common           BCIS II10         CS I10         Common           BCIS II10         CS II10         Common           BCIS II10         FIN 206         Common           BFIN 2110         FIN 210         Common           BFIN 2111         FIN 210         Common           BFIN 302V         FIN 303V         N/A           BFIN 321         FIN 311         N/A           BFIN 322         FIN 322         N/A           BFIN 323         FIN 324         N/A           BFIN 324         PIN 325         N/A           BFIN 325         FIN 326         N/A           BFIN 326         FIN 326         N/A           BFIN 327         FIN 326         N/A           BFIN 326         FIN 326         N/A           BFIN 327         FIN 326         N/A           BFIN 327         FIN 326         N/A           BFIN 328         FIN 335         N/A           BFIN 339         FIN 392         N/A           BFIN 393         FIN 393         N/A           BFIN 393         FIN 393         N/A           BFIN 421         FIN 425         N/A	AXED 2140	AXED 232	Unique
BCIS 1110         BCIS 110         Common           BCIS 1110         C S 110         Common           BFIN-BUSINESS FINANCE         Common           BFIN 2110         FIN 206         Common           BFIN 2110         FIN 210         Common           BFIN 303V         FIN 301         N/A           BFIN 311         FIN 311         N/A           BFIN 322         FIN 322         N/A           BFIN 323         FIN 324         N/A           BFIN 324         FIN 324         N/A           BFIN 325         FIN 325         N/A           BFIN 326         FIN 326         N/A           BFIN 327         FIN 327         N/A           BFIN 328         FIN 341         N/A           BFIN 329         FIN 355         N/A           BFIN 360         FIN 355         N/A           BFIN 393         FIN 391         N/A           BFIN 392         FIN 392         N/A           BFIN 393         FIN 393         N/A           BFIN 393         FIN 406         N/A           BFIN 436         FIN 406         N/A           BFIN 437         N/A         N/A           BFIN 436	AXED 2996	AXED 200	Unique
BCIS 1110         C S 110         Common           BFIN-BUSINESS FINANCE         C Common           BFIN 2110         FIN 210         Common           BFIN 2110         FIN 210         Common           BFIN 303V         FIN 303V         N/A           BFIN 311         FIN 303V         N/A           BFIN 322         FIN 321         N/A           BFIN 323         FIN 322         N/A           BFIN 324         FIN 324         N/A           BFIN 325         FIN 325         N/A           BFIN 326         FIN 326         N/A           BFIN 327         FIN 326         N/A           BFIN 327         FIN 327         N/A           BFIN 328         FIN 326         N/A           BFIN 329         FIN 355         N/A           BFIN 341         FIN 355         N/A           BFIN 355         FIN 356         N/A           BFIN 391         FIN 350         N/A           BFIN 392         FIN 393         N/A           BFIN 393         PIN 393         N/A           BFIN 426         FIN 435         N/A           BFIN 427         FIN 435         N/A           BFIN 428	BCIS-BUSINESS COMPUTER SYSTEMS		
BFIN 2010         FIN 206         Common           BFIN 2110         FIN 206         Common           BFIN 203V         FIN 303V         N/A           BFIN 303V         FIN 303V         N/A           BFIN 311         FIN 311         N/A           BFIN 322         FIN 322         N/A           BFIN 323         FIN 324         N/A           BFIN 324         FIN 324         N/A           BFIN 325         FIN 325         N/A           BFIN 326         FIN 326         N/A           BFIN 327         FIN 327         N/A           BFIN 327         FIN 325         N/A           BFIN 329         FIN 355         N/A           BFIN 380         FIN 356         N/A           BFIN 391         N/A         N/A           BFIN 392         FIN 392         N/A           BFIN 406         FIN 406         N/A           BFIN 427         FIN 435         N/A           BFIN 436         FIN 436         N/A           B	BCIS 1110	BCIS 110	Common
BFIN 2110         FIN 206         Common           BFIN 2110         FIN 210         Common           BFIN 303V         FIN 301         N/A           BFIN 311         FIN 311         N/A           BFIN 322         FIN 322         N/A           BFIN 323         FIN 323         N/A           BFIN 324         FIN 325         N/A           BFIN 325         FIN 325         N/A           BFIN 327         FIN 327         N/A           BFIN 327         FIN 327         N/A           BFIN 327         FIN 325         N/A           BFIN 328         FIN 355         N/A           BFIN 329         FIN 355         N/A           BFIN 391         N/A         N/A           BFIN 392         FIN 392         N/A           BFIN 393         FIN 392         N/A           BFIN 406         FIN 406         N/A           BFIN 421         FIN 435         N/A           BFIN 435         FIN 436         N/A           BFIN 436	BCIS 1110	CS110	Common
BFIN 2110         FIN 210         Common           BFIN 303V         RIN 303V         N/A           BFIN 311         FIN 311         N/A           BFIN 322         FIN 322         N/A           BFIN 323         RIN 322         N/A           BFIN 324         FIN 323         N/A           BFIN 325         RIN 324         N/A           BFIN 326         FIN 325         N/A           BFIN 327         RIN 327         N/A           BFIN 341         FIN 341         N/A           BFIN 355         FIN 355         N/A           BFIN 360         FIN 360         N/A           BFIN 391         FIN 391         N/A           BFIN 392         FIN 391         N/A           BFIN 393         FIN 392         N/A           BFIN 406         FIN 406         N/A           BFIN 407         FIN 421         N/A           BFIN 435         FIN 421         N/A           BFIN 436         FIN 435         N/A           BFIN 436         FIN 455         N/A           BFIN 445         FIN 455         N/A           BFIN 466         FIN 456         N/A           BFIN 475	BFIN-BUSINESS FINANCE		
BFIN 303V         FIN 303V         N/A           BFIN 311         FIN 311         N/A           BFIN 322         FIN 322         N/A           BFIN 323         FIN 323         N/A           BFIN 324         FIN 324         N/A           BFIN 325         FIN 325         N/A           BFIN 326         FIN 326         N/A           BFIN 327         FIN 327         N/A           BFIN 328         FIN 341         N/A           BFIN 341         FIN 341         N/A           BFIN 355         FIN 355         N/A           BFIN 360         FIN 360         N/A           BFIN 385         FIN 385         N/A           BFIN 391         FIN 391         N/A           BFIN 392         FIN 392         N/A           BFIN 393         FIN 393         N/A           BFIN 406         FIN 406         N/A           BFIN 435         N/A           BFIN 436         FIN 435         N/A           BFIN 436         FIN 435         N/A           BFIN 436         FIN 445         N/A           BFIN 436         FIN 456         N/A           BFIN 436         FIN 456	BFIN 2110	FIN 206	Common
BFIN 311         FIN 311         N/A           BFIN 322         FIN 322         N/A           BFIN 323         FIN 323         N/A           BFIN 324         N/A         N/A           BFIN 325         FIN 325         N/A           BFIN 326         FIN 326         N/A           BFIN 327         N/A         N/A           BFIN 328         FIN 327         N/A           BFIN 341         FIN 341         N/A           BFIN 355         N/A         N/A           BFIN 356         N/A         N/A           BFIN 391         N/A         N/A           BFIN 392         FIN 391         N/A           BFIN 393         N/A         N/A           BFIN 391         N/A         N/A           BFIN 393         N/A         N/A           BFIN 393         N/A         N/A           BFIN 406         FIN 406         N/A           BFIN 421         FIN 421         N/A           BFIN 435         N/A         N/A           BFIN 436         FIN 436         N/A           BFIN 437         FIN 445         N/A           BFIN 446         N/A         N/A     <	BFIN 2110	FIN 210	Common
BFIN 322         FIN 323         N/A           BFIN 323         FIN 324         N/A           BFIN 324         FIN 325         N/A           BFIN 325         FIN 325         N/A           BFIN 326         FIN 326         N/A           BFIN 327         FIN 327         N/A           BFIN 341         FIN 341         N/A           BFIN 355         FIN 355         N/A           BFIN 380         FIN 385         N/A           BFIN 391         FIN 385         N/A           BFIN 392         FIN 391         N/A           BFIN 393         FIN 393         N/A           BFIN 406         FIN 406         N/A           BFIN 421         FIN 425         N/A           BFIN 435         N/A         FIN 435           BFIN 436         FIN 435         N/A           BFIN 436         FIN 445         N/A           BFIN 445         FIN 445         N/A           BFIN 456         FIN 445         N/A           BFIN 466         FIN 475         N/A           BFIN 470         FIN 475         N/A           BFIN 480         FIN 480         N/A           BFIN 490	BFIN 303V	FIN 303V	N/A
BFIN 323         FIN 324         N/A           BFIN 324         FIN 325         N/A           BFIN 325         FIN 325         N/A           BFIN 326         FIN 326         N/A           BFIN 327         FIN 327         N/A           BFIN 327         FIN 327         N/A           BFIN 341         FIN 341         N/A           BFIN 355         FIN 355         N/A           BFIN 360         FIN 360         N/A           BFIN 385         FIN 385         N/A           BFIN 391         FIN 391         N/A           BFIN 392         FIN 392         N/A           BFIN 406         FIN 406         N/A           BFIN 421         FIN 406         N/A           BFIN 422         FIN 435         N/A           BFIN 436         FIN 436         N/A           BFIN 436         FIN 436         N/A           BFIN 445         FIN 445         N/A           BFIN 456         FIN 446         N/A           BFIN 470         FIN 466         N/A           BFIN 470         FIN 475         N/A           BFIN 480         FIN 490         N/A           BFIN 490	BFIN 311	FIN 311	N/A
BFIN 324         FIN 325         RIN 325         N/A           BFIN 326         FIN 326         N/A           BFIN 327         FIN 327         N/A           BFIN 327         FIN 327         N/A           BFIN 341         FIN 341         N/A           BFIN 355         FIN 355         N/A           BFIN 350         FIN 360         N/A           BFIN 380         FIN 385         N/A           BFIN 391         FIN 391         N/A           BFIN 392         FIN 393         N/A           BFIN 406         FIN 406         N/A           BFIN 421         FIN 421         N/A           BFIN 425         FIN 435         N/A           BFIN 436         FIN 436         N/A           BFIN 445         FIN 445         N/A           BFIN 445         FIN 445         N/A           BFIN 456         FIN 456         N/A           BFIN 470         FIN 470         N/A           BFIN 480         FIN 480         N/A           BFIN 490         FIN 490         N/A           BFIN 498         FIN 498         FIN 498	BFIN 322	FIN 322	N/A
BFIN 325         FIN 326         N/A           BFIN 326         FIN 326         N/A           BFIN 327         FIN 327         N/A           BFIN 341         FIN 341         N/A           BFIN 355         FIN 355         N/A           BFIN 360         FIN 360         N/A           BFIN 385         FIN 385         N/A           BFIN 391         FIN 391         N/A           BFIN 392         FIN 392         N/A           BFIN 406         FIN 406         N/A           BFIN 421         FIN 421         N/A           BFIN 425         FIN 435         N/A           BFIN 436         FIN 436         N/A           BFIN 436         FIN 436         N/A           BFIN 445         N/A         BFIN 455           BFIN 446         FIN 455         N/A           BFIN 470         N/A         BFIN 470           BFIN 475         FIN 470         N/A           BFIN 480         FIN 490         N/A           BFIN 490         FIN 490         N/A	BFIN 323	FIN 323	N/A
BFIN 326         FIN 327         N/A           BFIN 327         FIN 327         N/A           BFIN 341         FIN 341         N/A           BFIN 355         FIN 355         N/A           BFIN 360         FIN 360         N/A           BFIN 385         FIN 385         N/A           BFIN 391         FIN 391         N/A           BFIN 392         FIN 392         N/A           BFIN 393         FIN 393         N/A           BFIN 406         FIN 406         N/A           BFIN 421         FIN 421         N/A           BFIN 435         FIN 435         N/A           BFIN 436         FIN 436         N/A           BFIN 445         FIN 445         N/A           BFIN 445         FIN 445         N/A           BFIN 446         FIN 455         N/A           BFIN 470         N/A         N/A           BFIN 475         FIN 470         N/A           BFIN 480         FIN 480         N/A           BFIN 490         FIN 490         N/A           BFIN 498         FIN 498         N/A	BFIN 324	FIN 324	N/A
BFIN 327         FIN 327         N/A           BFIN 341         FIN 341         N/A           BFIN 355         FIN 355         N/A           BFIN 360         FIN 360         N/A           BFIN 385         FIN 385         N/A           BFIN 391         FIN 391         N/A           BFIN 392         FIN 392         N/A           BFIN 406         FIN 406         N/A           BFIN 421         FIN 421         N/A           BFIN 435         FIN 435         N/A           BFIN 436         FIN 435         N/A           BFIN 436         FIN 445         N/A           BFIN 445         FIN 445         N/A           BFIN 455         N/A         N/A           BFIN 466         FIN 466         N/A           BFIN 470         FIN 475         N/A           BFIN 480         FIN 480         N/A           BFIN 490         FIN 490         N/A           BFIN 498         FIN 498         N/A	BFIN 325	FIN 325	N/A
BFIN 341       FIN 341       N/A         BFIN 355       FIN 355       N/A         BFIN 360       FIN 360       N/A         BFIN 385       FIN 385       N/A         BFIN 391       FIN 391       N/A         BFIN 392       FIN 392       N/A         BFIN 406       FIN 406       N/A         BFIN 421       FIN 421       N/A         BFIN 435       FIN 435       N/A         BFIN 436       FIN 436       N/A         BFIN 445       FIN 445       N/A         BFIN 455       FIN 455       N/A         BFIN 470       FIN 470       N/A         BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 490       FIN 490       N/A	BFIN 326	FIN 326	N/A
BFIN 355       FIN 355       N/A         BFIN 360       FIN 360       N/A         BFIN 385       FIN 385       N/A         BFIN 391       FIN 391       N/A         BFIN 392       FIN 392       N/A         BFIN 406       FIN 406       N/A         BFIN 421       FIN 421       N/A         BFIN 435       FIN 435       N/A         BFIN 436       FIN 436       N/A         BFIN 445       FIN 445       N/A         BFIN 455       FIN 455       N/A         BFIN 466       FIN 466       N/A         BFIN 470       FIN 470       N/A         BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 490       FIN 490       N/A	BFIN 327	FIN 327	N/A
BFIN 360       FIN 360       N/A         BFIN 385       FIN 385       N/A         BFIN 391       N/A       N/A         BFIN 392       N/A       N/A         BFIN 393       N/A       N/A         BFIN 406       FIN 406       N/A         BFIN 421       N/A       N/A         BFIN 435       N/A       N/A         BFIN 436       FIN 436       N/A         BFIN 445       FIN 445       N/A         BFIN 455       FIN 455       N/A         BFIN 466       FIN 470       N/A         BFIN 470       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 490       FIN 490       N/A         BFIN 498       FIN 498       N/A	BFIN 341	FIN 341	N/A
BFIN 385       FIN 385       N/A         BFIN 391       FIN 391       N/A         BFIN 392       FIN 392       N/A         BFIN 393       N/A       N/A         BFIN 406       FIN 406       N/A         BFIN 421       FIN 421       N/A         BFIN 435       FIN 435       N/A         BFIN 436       FIN 436       N/A         BFIN 445       FIN 445       N/A         BFIN 455       FIN 455       N/A         BFIN 466       FIN 466       N/A         BFIN 470       N/A         BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 498       FIN 498       N/A	BFIN 355	FIN 355	N/A
BFIN 385       FIN 385       N/A         BFIN 391       FIN 391       N/A         BFIN 392       FIN 392       N/A         BFIN 393       N/A       N/A         BFIN 406       FIN 406       N/A         BFIN 421       FIN 421       N/A         BFIN 435       FIN 435       N/A         BFIN 436       FIN 436       N/A         BFIN 445       FIN 445       N/A         BFIN 455       FIN 455       N/A         BFIN 466       FIN 466       N/A         BFIN 470       N/A         BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 498       FIN 498       N/A	BFIN 360	FIN 360	N/A
BFIN 392       FIN 392       N/A         BFIN 393       FIN 393       N/A         BFIN 406       FIN 406       N/A         BFIN 421       FIN 421       N/A         BFIN 435       FIN 435       N/A         BFIN 436       FIN 436       N/A         BFIN 445       FIN 445       N/A         BFIN 455       FIN 455       N/A         BFIN 466       FIN 466       N/A         BFIN 470       N/A       N/A         BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 498       FIN 498       N/A	BFIN 385	FIN 385	N/A
BFIN 393       FIN 393       N/A         BFIN 406       FIN 406       N/A         BFIN 421       FIN 421       N/A         BFIN 435       FIN 435       N/A         BFIN 436       FIN 436       N/A         BFIN 445       FIN 445       N/A         BFIN 455       FIN 455       N/A         BFIN 466       FIN 466       N/A         BFIN 470       N/A       N/A         BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 490       FIN 490       N/A         BFIN 498       FIN 498       N/A	BFIN 391	FIN 391	N/A
BFIN 406       FIN 406       N/A         BFIN 421       FIN 421       N/A         BFIN 435       FIN 435       N/A         BFIN 436       FIN 436       N/A         BFIN 445       FIN 445       N/A         BFIN 455       FIN 455       N/A         BFIN 466       FIN 466       N/A         BFIN 470       FIN 470       N/A         BFIN 475       N/A       N/A         BFIN 480       FIN 480       N/A         BFIN 498       FIN 498       N/A	BFIN 392	FIN 392	N/A
BFIN 421       FIN 421       N/A         BFIN 435       FIN 435       N/A         BFIN 436       FIN 436       N/A         BFIN 445       FIN 445       N/A         BFIN 455       FIN 455       N/A         BFIN 466       FIN 466       N/A         BFIN 470       FIN 470       N/A         BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 490       FIN 490       N/A         BFIN 498       FIN 498       N/A	BFIN 393	FIN 393	N/A
BFIN 435       FIN 435       N/A         BFIN 436       FIN 436       N/A         BFIN 445       FIN 445       N/A         BFIN 455       FIN 455       N/A         BFIN 466       FIN 466       N/A         BFIN 470       FIN 470       N/A         BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 490       FIN 490       N/A         BFIN 498       FIN 498       N/A	BFIN 406	FIN 406	N/A
BFIN 436       FIN 436       N/A         BFIN 445       FIN 445       N/A         BFIN 455       FIN 455       N/A         BFIN 466       FIN 466       N/A         BFIN 470       FIN 470       N/A         BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 490       FIN 490       N/A         BFIN 498       FIN 498       N/A	BFIN 421	FIN 421	N/A
BFIN 445       FIN 445       N/A         BFIN 455       FIN 455       N/A         BFIN 466       FIN 466       N/A         BFIN 470       FIN 470       N/A         BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 490       FIN 490       N/A         BFIN 498       FIN 498       N/A	BFIN 435	FIN 435	N/A
BFIN 455       FIN 455       N/A         BFIN 466       FIN 466       N/A         BFIN 470       FIN 470       N/A         BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 490       FIN 490       N/A         BFIN 498       FIN 498       N/A	BFIN 436	FIN 436	
BFIN 455       FIN 455       N/A         BFIN 466       FIN 466       N/A         BFIN 470       FIN 470       N/A         BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 490       FIN 490       N/A         BFIN 498       FIN 498       N/A	BFIN 445	FIN 445	N/A
BFIN 466       FIN 466       N/A         BFIN 470       FIN 470       N/A         BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 490       FIN 490       N/A         BFIN 498       FIN 498       N/A			
BFIN 470       FIN 470       N/A         BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 490       FIN 490       N/A         BFIN 498       FIN 498       N/A			
BFIN 475       FIN 475       N/A         BFIN 480       FIN 480       N/A         BFIN 490       FIN 490       N/A         BFIN 498       FIN 498       N/A			
BFIN 480       FIN 480       N/A         BFIN 490       FIN 490       N/A         BFIN 498       FIN 498       N/A			
BFIN 490       FIN 490       N/A         BFIN 498       FIN 498       N/A			
BFIN 498 FIN 498 N/A			

BFIN 503	FIN 503	N/A
BFIN 511	FIN 511	N/A
BFIN 521	FIN 521	N/A
BFIN 535	FIN 535	N/A
BFIN 536	FIN 536	N/A
BFIN 545	FIN 545	N/A
BFIN 555	FIN 555	N/A
BFIN 566	FIN 566	N/A
BFIN 575	FIN 575	N/A
BFIN 581	FIN 581	N/A
BFIN 590	FIN 590	N/A
BFIN 598	FIN 598	N/A
BIOL-BIOLOGY		
BIOL 1120G	BIOL 101G	Unique
BIOL 1120L	BIOL 101GL	Unique
BIOL 1130G	BIOL 154	Common
BIOL 1190G	BIOL 110G	Unique
BIOL 1996	BIOL 150	Unique
BIOL 2110G	BIOL 211G	Unique
BIOL 2110L	BIOL 211GL	Unique
BIOL 2210	BIOL 225	Common
BIOL 2221	BIOL 254	Unique
BIOL 2225	BIOL 226	Common
BIOL 2310	BIOL 221	Common
BIOL 2310L	BIOL 221 L	Common
BIOL 2320	BIOL 219	Unique
BIOL 2505	BIOL 227	Common
BIOL 2511	BIOL 262	Common
BIOL 2512	BIOL 263	Unique
BIOL 2610G	BIOL 111G	Common
BIOL 2610L	BIOL 111GL	Common
BIOL 2996	BIOL 250	Unique
BLAW-BUSINESS LAW		
BLAW 2110	BLAW 230	Common
BLAW 2110	BMGT 231	Common
BLED-BILINGUAL EDUCATION		
BLED 1110	EDUC 103	Common
BLED 2110	EDUC 204	Common
BLED 344	BIL 344	N/A
BLED 483	BIL 483	N/A
BLED 489	BIL 489	N/A
BLED 505	BIL 505	N/A
BLED 520	BIL 520	N/A
BLED 522	BIL 522	N/A
BLED 545	BIL 545	N/A
BLED 550	BIL 550	N/A
BLED 560	BIL 560	N/A
BLED 570	BIL 570	N/A
BLED 583	BIL 583	N/A
BLED 587	BIL 587	N/A
BLED 616	BIL 616	N/A
BLED 617	BIL 617	N/A

DI ED 600	DII COO	NIZA
BLED 633	BIL 633	N/A
BLED 670	BIL 670	N/A
BUSA-BUSINESS ADMINISTRATION	21.07.110	
BUSA 1110	BMGT 110	Common
BUSA 1110	BUSA 111	Common
CAST-CHILD ADVOCACY STUDIES		
CAST 1110	CAST 201	Unique
CAST 2110	CAST 202	Unique
CAST 2120	CAST 203	Unique
CEPY-COUNSELING & EDUC PSY		
CEPY 1120G	C EP 110G	Unique
CEPY 1150	C EP 199	Unique
CEPY 2110	C EP 210	Common
CEPY 2120	C EP 215	Unique
CEPY 2130	C EP 240	Unique
CEPY 2140	C EP 298	Unique
CEPY 2140H	C EP 298 H	Unique
CEPY-COUNSELING & EDUCATIONAL PSYCHOLO	OGY	
CEPY 300V	C EP 300	N/A
CEPY 320	C EP 320	N/A
CEPY 420	C EP 420	N/A
CEPY 451V	C EP 451V	N/A
CEPY 455	C EP 455	N/A
CEPY 461	C EP 461	N/A
CEPY 495	C EP 495	N/A
CEPY 495 H	C EP 495 H	N/A
CEPY 498	C EP 498	N/A
CEPY 499	C EP 499	N/A
CEPY 503	C EP 503	N/A
CEPY 505	C EP 505	N/A
CEPY 511	C EP 511	N/A
CEPY 512	C EP 512	N/A
CEPY 515	C EP 515	N/A
CEPY 517	C EP 517	N/A
CEPY 519	C EP 519	N/A
CEPY 520	C EP 520	N/A
CEPY 522	C EP 522	N/A
CEPY 524	C EP 524	N/A
CEPY 529	C EP 529	N/A
CEPY 532	C EP 532	N/A
CEPY 540	C EP 540	N/A
CEPY 542	C EP 542	N/A
CEPY 547	C EP 547	N/A
CEPY 549	C EP 549	N/A
CEPY 550	C EP 550	N/A
CEPY 551	C EP 551	N/A
CEPY 552	C EP 552	N/A
CEPY 554	C EP 554	N/A
CEPY 556	C EP 556	N/A
CEPY 558	C EP 558	N/A
CEPY 559	C EP 559	N/A
CEPY 562	C EP 562	N/A

OFFIVE CO.	0.50.500	N/A
CEPY 563	C EP 563	N/A
CEPY 566	C EP 566	N/A
CEPY 569	C EP 569	N/A
CEPY 572	C EP 572	N/A
CEPY 578	C EP 578	N/A
CEPY 579	C EP 579	N/A
CEPY 580	C EP 580	N/A
CEPY 598	C EP 598	N/A
CEPY 599	C EP 599	N/A
CEPY 607	C EP 607	N/A
CEPY 608	C EP 608	N/A
CEPY 612	C EP 612	N/A
CEPY 615	C EP 615	N/A
CEPY 616	C EP 616	N/A
CEPY 617	C EP 617	N/A
CEPY 618	C EP 618	N/A
CEPY 619	C EP 619	N/A
CEPY 622	C EP 622	N/A
CEPY 624	C EP 624	N/A
CEPY 625	C EP 625	N/A
CEPY 630	C EP 630	N/A
CEPY 632	C EP 632	N/A
CEPY 634	C EP 634	N/A
CEPY 636	C EP 636	N/A
CEPY 637	C EP 637	N/A
CEPY 642	C EP 642	N/A
CEPY 647	C EP 647	N/A
CEPY 648	C EP 648	N/A
CEPY 649	C EP 649	N/A
CEPY 651	C EP 651	N/A
CEPY 652	C EP 652	N/A
CEPY 658	C EP 658	N/A
CEPY 662	C EP 662	N/A
CEPY 670	C EP 670	N/A
CEPY 671	C EP 671	N/A
CEPY 672	C EP 672	N/A
CEPY 673	C EP 673	N/A
CEPY 675	C EP 675	N/A
CEPY 676	C EP 676	N/A
CEPY 677	C EP 677	N/A
CEPY 678	C EP 678	N/A
CEPY 679	C EP 679	N/A
CEPY 689	C EP 680	N/A
CEPY 681	C EP 681	N/A
CEPY 682	C EP 682	N/A
CEPY 682	C EP 684	N/A
CEPY 685	C EP 685	N/A
CEPY 693	C EP 693	N/A
CEPY 698	C EP 698	N/A
CEPY 699	C EP 699	N/A
CEPY 700 CHEM-CHEMISTRY	C EP 700	N/A
L HENGEL HENGINI KY		

CHEM-CHEMISTRY

CHEM 1111	CHEM 100	Unique
CHEM 1120G	CHEM 110G	Common
CHEM 1121	CHEM 101	Unique
CHEM 1122	CHEM 102	Unique
CHEM 1123	CHEM 103	Unique
CHEM 1215G	CHEM 111G	Unique
CHEM 1216	CHEM 115	Common
CHEM 1225G	CHEM 112G	Unique
CHEM 1226	CHEM 116	Common
CHEM 2111	CHEM 242	Unique
CHEM 2115	CHEM 211	Common
CHEM 2120	CHEM 210	Common
CHEM 2226	CHEM 217	Unique
CHEM 2991	CHEM 241	Unique
CHEM 2996	CHEM 251	Unique
CHIN-CHINESE		·
CHIN 1110	CHIN 111	Common
CHIN 1120	CHIN 112	Common
CHIN 2110	CHIN 211	Common
CHIN 2120	CHIN 212	Common
CHSS - COMM HEALTH/SOC SRVCS		
CHSS 1110	CHSS 101	Unique
CHSS 2110	CHSS 216	Unique
CHSS 2510	CHSS 299	Common
CHSS 2511	CHSS 295	Unique
CJUS-CRIMINAL JUSTICE	2.100 200	24.0
CJUS 1110G	C J 101G	Common
CJUS 1120	C J 205	Common
CJUS 1996	C J 199	Unique
CJUS 2120	C J 250	Common
CJUS 2140	C J 221	Common
CJUS 2150	C J 230	Common
CJUS 2160	C J 293	Common
CJUS 2220	C J 210	Common
CJUS 300	C J 300	N/A
CJUS 301	C J 301	N/A
CJUS 302	C J 302	N/A
CJUS 303	C J 303	N/A
CJUS 304	C J 304	N/A
CJUS 306	C J 306	N/A
CJUS 307	C J 307	N/A
CJUS 321	C J 321	N/A
CJUS 331	C J 331	N/A
CJUS 332	C J 332	N/A
CJUS 333	C J 333	N/A
CJUS 345	C J 345	N/A
CJUS 346	C J 346	N/A
CJUS 347	C J 347	N/A
CJUS 348	C J 348	N/A
CJUS 360	C J 360	N/A
CJUS 380	C J 380	N/A
CJUS 391	C J 391	N/A
0000 031	0 0 0 0 0 1	IV/O

CJUS 393	C J 393	N/A
CJUS 399	C J 399	N/A
CJUS 405	C J 405	N/A
CJUS 410	C J 410	N/A
CJUS 412	C J 412	N/A
CJUS 414	C J 414	N/A
CJUS 416	C J 416	N/A
CJUS 417	C J 417	N/A
CJUS 424	C J 424	N/A
CJUS 425	C J 425	N/A
CJUS 427	C J 427	N/A
CJUS 428	C J 428	N/A
CJUS 429	C J 429	N/A
CJUS 430	C J 430	N/A
CJUS 431	C J 431	N/A
CJUS 432	C J 432	N/A
CJUS 434	C J 434	N/A
CJUS 435	C J 435	N/A
CJUS 436	C J 436	N/A
CJUS 437	C J 437	N/A
CJUS 440V	C J 440V	N/A
CJUS 449	C J 449	N/A
CJUS 451	C J 451	N/A
CJUS 453	C J 453	N/A
CJUS 454	C J 454	N/A
CJUS 455	C J 455	N/A
CJUS 484	C J 484	N/A
CJUS 501	C J 501	N/A
CJUS 511	C J 511	N/A
CJUS 514	C J 514	N/A
CJUS 515	C J 515	N/A
CJUS 521	C J 521	N/A
CJUS 524	C J 524	N/A
CJUS 525	C J 525	N/A
CJUS 527	C J 527	N/A
CJUS 529	C J 529	N/A
CJUS 531	C J 531	N/A
CJUS 532	C J 532	N/A
CJUS 535	C J 535	N/A
CJUS 537	C J 537	N/A
CJUS 541	C J 541	N/A
CJUS 545	C J 545	N/A
CJUS 554	C J 554	N/A
CJUS 555	C J 555	N/A
CJUS 581	C J 581	N/A
CJUS 591	C J 591	N/A
CJUS 592	C J 592	N/A
CJUS 593	C J 593	N/A
CJUS 599	C J 599	N/A
COMM-COMMUNICATION		
COMM 1115G	COMM 265G	Common
COMM 1130G	COMM 253G	Common

COMM 2110	COMM 285	Unique
COMM 2111	COMM 250	Unique
COMM 2996	COMM 291	Unique
COMM 2997	COMM 290	Unique
CTFM-CLTHNG/TXTLS/FSHN MRCHDSG		
CTFM 1110	CTFM 178	Unique
CTFM 2110	CTFM 289	Unique
CTFM 2120	CTFM 270	Unique
CTFM 2130	CTFM 273	Unique
CTFM 2990	CTFM 202	Unique
DANC-DANCE		
DANC 1110G	DANC 101G	Common
DANC 1130	DANC 123	Common
DANC 1131	DANC 125	Unique
DANC 1135	DANC 109	Unique
DANC 1140	DANC 129	Common
DANC 1150	DANC 126	Common
DANC 1155	DANC 102	Common
DANC 1185	DANC 121	Unique
DANC 1220	DANC 122	Unique
DANC 1235	DANC 118	Unique
DANC 2114	DANC 204	Unique
DANC 2130	DANC 223	Common
DANC 2130L	DANC 223 L	Unique
DANC 2140	DANC 229	N/A
DANC 2140L	DANC 229 L	Unique
DANC 2142	DANC 210	Unique
DANC 2142L	DANC 210 L	Unique
DANC 2150	DANC 226	Common
DANC 2150L	DANC 226 L	Unique
DANC 2155	DANC 207	Unique
DANC 2157	DANC 212	Unique
DANC 2161	DANC 227	Unique
DANC 2250	DANC 205	Unique
DANC 2251	DANC 206	Unique
DANC 2265	DANC 289	Unique
DANC 2270	DANC 280	Unique
DANC 2310	DANC 222	Unique
DANC 2311	DANC 225	Unique
DANC 2320	DANC 232	Unique
DANC 2321	DANC 235	Unique
DANC 3110	DANC 345	N/A
DANC 3114	DANC 304	N/A
DANC 3130	DANC 323	N/A
DANC 3130L	DANC 323 L	N/A
DANC 3140	DANC 329	N/A
DANC 3140L	DANC 329 L	N/A
DANC 3142	DANC 310	N/A
DANC 3142L	DANC 310 L	N/A
DANC 3145	DANC 339	N/A
DANC 3150	DANC 326	N/A
DANC 3150L	DANC 326 L	N/A

DANIO 0155	DANIO 007	N/A
DANC 3155	DANC 307	N/A
DANC 3157	DANC 312	N/A
DANC 3175	DANC 375	N/A
DANC 323 L	DANC 3130L	N/A
DANC 3250	DANC 305	N/A
DANC 3251	DANC 306	N/A
DANC 3310	DANC 322	N/A
DANC 3311	DANC 325	N/A
DANC 3320	DANC 332	N/A
DANC 3321	DANC 335	N/A
DANC 3510V	DANC 451V	N/A
DANC 4130	DANC 423	N/A
DANC 4130L	DANC 423 L	N/A
DANC 4150	DANC 426	N/A
DANC 4150L	DANC 426 L	N/A
DANC 4250	DANC 466	N/A
DANC 4265	DANC 489	N/A
DANC 4311	DANC 425	N/A
DANC 4320	DANC 432	N/A
DANC 4321	DANC 435	N/A
DANC 4610	DANC 447	N/A
DANC 4710	DANC 465	N/A
DANC 4990	DANC 411	N/A
DANC 4990	DANC 412	N/A
DANC 4990	DANC 413	N/A
DANC 4996	DANC 450	N/A
DANC 4997	DANC 499	N/A
DANC 5114	DANC 504	N/A
DANC 5130	DANC 523	N/A
DANC 5140	DANC 529	N/A
DANC 5142	DANC 510	N/A
DANC 5145	DANC 539	N/A
DANC 5150	DANC 526	N/A
DANC 5155	DANC 507	N/A
DANC 5157	DANC 512	N/A
DANC 5250	DANC 505	N/A
DANC 5251	DANC 506	N/A
DANC 5310	DANC 522	N/A
DANC 5311	DANC 522	N/A
DANC 5320	DANC 532	N/A
DANC 5321	DANC 535	N/A
DANC 5510	DANC 551	N/A
DANC 5550	DANC 566	N/A
DANC 5710	DANC 570	N/A
DANC 5900	DANC 599	N/A
DANC 5992	DANC 501	N/A
DANC 5996	DANC 550	N/A
DANC 5998	DANC 567	N/A
DANC 6998	DANC 670	N/A
ECED-EARLY CHILDHOOD EDUCATION		
ECED 1110	ECED 115	Common
ECED 1115	ECED 125	Common

ECED 1120	ECED 265	Common
ECED 1125	ECED 255	Common
ECED 1130	ECED 135	Common
ECED 2110	ECED 245	Common
ECED 2115	ECED 235	Common
ECED 2120	ECED 215	Common
ECED 2121	ECED 220	Common
ECED 2130	ECED 225	Common
ECED 2131	ECED 230	Common
ECED 2140	ECED 275	Common
ECED 2141	ECED 276	Common
ECED 2215	ECED 270	Common
ECED 2280	ECED 280	Common
ECED 2281	ECED 281	Unique
ECON-ECONOMICS		
ECON 1110G	ECON 201G	Common
ECON 2110G	ECON 251G	Common
ECON 2110H	ECON 251GH	Common
ECON 2120G	ECON 252G	Common
ECON 2120H	ECON 252GH	Common
EDLT-EDUCATION		
EDLT 2110	EDLT 268	Unique
EDUC-EDUCATION		
EDUC 1110	EDUC 101	Unique
EDUC 1120	EDUC 250	Common
EDUC 1140	EDUC 150	Unique
EDUC 1150	EDUC 151	Unique
EDUC 1185	EDUC 281	Unique
EDUC 1995	EDUC 181	Unique
EDUC 1996	EDUC 195	Unique
EDUC 1998	EDUC 102	Unique
EDUC 2710	EDUC 219	Unique
EDUC 2998	EDUC 202	Unique
ELAD-EDUC LEADERSHIP & ADMIN		·
ELAD 2210	ELA 255	Unique
ELAD 2340	ELA 215	Unique
ELAD 2996	ELA 298	Unique
ELAD 342	ELA 342	N/A
ELAD 350V	ELA 350V	N/A
ELAD 398	ELA 398	N/A
ELAD 411	ELA 411	N/A
ELAD 412	ELA 412	N/A
ELAD 413	ELA 413	N/A
ELAD 414	ELA 414	N/A
ELAD 440	ELA 440	N/A
ELAD 450	ELA 450	N/A
ELAD 455	ELA 455	N/A
ELAD 485	ELA 485	N/A
ELAD 499	ELA 499	N/A
ELAD 502	ELA 502	N/A
ELAD 511	ELA 511	N/A
ELAD 512	ELA 512	N/A
*·=	··-	toward to

ELAD 513	ELA 513	N/A
ELAD 514	ELA 514	N/A
ELAD 520	ELA 520	N/A
ELAD 530	ELA 530	N/A
ELAD 531	ELA 531	N/A
ELAD 540	ELA 540	N/A
ELAD 550	ELA 550	N/A
ELAD 555	ELA 555	N/A
ELAD 563	ELA 563	N/A
ELAD 564	ELA 564	N/A
ELAD 565	ELA 565	N/A
ELAD 566	ELA 566	N/A
ELAD 567	ELA 567	N/A
ELAD 568	ELA 568	N/A
ELAD 569	ELA 569	N/A
ELAD 570	ELA 570	N/A
ELAD 572	ELA 572	N/A
ELAD 575	ELA 575	N/A
ELAD 576	ELA 576	N/A
ELAD 578	ELA 578	N/A
ELAD 579	ELA 579	N/A
ELAD 580	ELA 580	N/A
ELAD 582	ELA 582	N/A
ELAD 585	ELA 585	N/A
ELAD 586	ELA 586	N/A
ELAD 589	ELA 589	N/A
ELAD 590	ELA 590	N/A
ELAD 595	ELA 595	N/A
ELAD 598	ELA 598	N/A
ELAD 600	ELA 600	N/A
ELAD 615	ELA 625	N/A
ELAD 620	ELA 620	N/A
ELAD 622	ELA 622	N/A
ELAD 623	ELA 623	N/A
ELAD 630	ELA 630	N/A
ELAD 635	ELA 635	N/A
ELAD 645	ELA 645	N/A
ELAD 650	ELA 650	N/A
ELAD 655	ELA 655	N/A
ELAD 655 ELAD 670	ELA 655 ELA 670	N/A
ELAD 670	ELA 670	
ELAD 671 ELAD 676		N/A
ELAD 679	ELA 676	N/A N/A
	ELA 679	
ELAD 682	ELA 682	N/A
ELAD 683	ELA 683	N/A
ELAD 685	ELA 685	N/A
ELAD 689	ELA 689	N/A
ELAD 693	ELA 693	N/A
ELAD 698	ELA 698	N/A
ELAD 700	ELA 700	N/A
ENGL-ENGLISH	0000 1110	
ENGL 1105M	SPCD 1110	Unique

ENGL 1110G	ENGL 111G	Common
ENGL 1110H	ENGL 111GH	Unique
ENGL 1110M	ENGL 111 M	Unique
ENGL 1120	ENGL 112	Common
ENGL 1410G	ENGL 115G	Common
ENGL 2130G	ENGL 311G	Common
ENGL 2210G	ENGL 203G	Common
ENGL 2210G	ENGL 218G	Common
ENGL 2215G	ENGL 318G	Unique
ENGL 2221G	ENGL 211G	Unique
ENGL 2280	ENGL 263	Unique
ENGL 2310G	ENGL 220G	Common
ENGL 2381	ENGL 232	Unique
ENGL 2382	ENGL 235	Unique
ENGL 2520G	ENGL 116G	Common
ENGL 2521	ENGL 243	Unique
ENGL 2610	ENGL 251	Common
ENGL 2620	ENGL 252	Common
ENGL 2630	ENGL 271	Common
ENGL 2640	ENGL 272	Common
ENGL 2650G	ENGL 244G	Common
ENGL 2996	ENGL 299	Unique
ENTR-ENTREPRENUERSHIP		
ENTR 1110	BMGT 275	Common
ENVS-ENVIRONMENTAL SCIENCE		
ENVS 1110G	ES110G	Common
ENVS 2111	E S 256	Unique
ENVS 2111L	E S 256 L	Unique
ENVS 300	ES 300	N/A
ENVS 301	E S 301	N/A
ENVS 312	ES312	N/A
ENVS 330	E S 330	N/A
ENVS 361	ES 361	N/A
ENVS 370	E S 370	N/A
ENVS 391	ES 391	
		N/A
ENVS 422		
	E S 422	N/A
ENVS 430	E S 422 E S 430	N/A N/A
ENVS 430 ENVS 449	E S 422 E S 430 E S 449	N/A N/A N/A
ENVS 430	E S 422 E S 430	N/A N/A
ENVS 430 ENVS 449 ENVS 451 ENVS 452	E S 422 E S 430 E S 449 E S 451 E S 452	N/A N/A N/A N/A
ENVS 430 ENVS 449 ENVS 451	E S 422 E S 430 E S 449 E S 451 E S 452 E S 457	N/A N/A N/A N/A N/A
ENVS 430 ENVS 449 ENVS 451 ENVS 452 ENVS 457 ENVS 460	E S 422 E S 430 E S 449 E S 451 E S 452 E S 457 E S 460	N/A N/A N/A N/A N/A N/A
ENVS 430 ENVS 449 ENVS 451 ENVS 452 ENVS 457 ENVS 460 ENVS 462	E S 422 E S 430 E S 449 E S 451 E S 452 E S 457 E S 460 E S 462	N/A
ENVS 430 ENVS 449 ENVS 451 ENVS 452 ENVS 457 ENVS 460 ENVS 462 ENVS 470	E S 422 E S 430 E S 449 E S 451 E S 452 E S 457 E S 460 E S 462 E S 470	N/A
ENVS 430 ENVS 449 ENVS 451 ENVS 452 ENVS 457 ENVS 460 ENVS 462 ENVS 470 ENVS 471	E S 422 E S 430 E S 449 E S 451 E S 452 E S 457 E S 460 E S 462 E S 470 E S 471	N/A
ENVS 430 ENVS 449 ENVS 451 ENVS 452 ENVS 457 ENVS 460 ENVS 462 ENVS 470 ENVS 471 ENVS 557	E S 422 E S 430 E S 449 E S 451 E S 452 E S 457 E S 460 E S 462 E S 470 E S 471 E S 557	N/A
ENVS 430 ENVS 449 ENVS 451 ENVS 452 ENVS 457 ENVS 460 ENVS 462 ENVS 470 ENVS 471 ENVS 557 ENVS 596	E S 422 E S 430 E S 449 E S 451 E S 452 E S 457 E S 460 E S 462 E S 470 E S 471 E S 557 E S 596	N/A
ENVS 430 ENVS 449 ENVS 451 ENVS 452 ENVS 457 ENVS 460 ENVS 462 ENVS 470 ENVS 471 ENVS 557 ENVS 596 ENVS 599	E S 422 E S 430 E S 449 E S 451 E S 452 E S 457 E S 460 E S 462 E S 470 E S 471 E S 557 E S 596 E S 599	N/A
ENVS 430 ENVS 449 ENVS 451 ENVS 452 ENVS 457 ENVS 460 ENVS 462 ENVS 470 ENVS 471 ENVS 557 ENVS 596 ENVS 599 ENVS 605	E S 422 E S 430 E S 449 E S 451 E S 452 E S 457 E S 460 E S 462 E S 470 E S 471 E S 557 E S 596 E S 599 E S 605	N/A
ENVS 430 ENVS 449 ENVS 451 ENVS 452 ENVS 457 ENVS 460 ENVS 462 ENVS 470 ENVS 471 ENVS 557 ENVS 596 ENVS 599	E S 422 E S 430 E S 449 E S 451 E S 452 E S 457 E S 460 E S 462 E S 470 E S 471 E S 557 E S 596 E S 599	N/A

EPWS-ETMLGY/PLNT PTHLGY/WD SCI

EDW0 1110	FDW0.100	Halana
EPWS 1110	EPWS 100	Unique
EPWS 1110L	EPWS 100 L	Unique
EPWS 2996	EPWS 200	Unique
FCSC-FAMILY & CONSUMER SCI		
FCSC 2250	FCSE 245	Unique
FCSC 2330	FCSE 235	Unique
FCSC 345	FCSE 345	N/A
FCSC 348	FCSE 348	N/A
FCSC 445	FCSE 445	N/A
FCSC 492	FCSE 492	N/A
FCSC 545	FCSE 545	N/A
FCSC 546	FCSE 546	N/A
FCSC 547	FCSE 547	N/A
FCSC 548	FCSE 548	N/A
FCSC 590	FCSE 590	N/A
FCST-FAMILY AND CHILD STUDIES		
FCST 1130	FCS 181	Unique
FCST 2110	FCS 210	Unique
FCST 2120	FCS 211	Unique
FCST 2135	FCS 212	Unique
FCST 2140	FCS 213	Unique
FCST 300	FCS 300	N/A
FCST 301	FCS 301	N/A
FCST 380	FCS 380	N/A
FCST 383	FCS 383	N/A
FCST 424	FCS 424	N/A
FCST 449V	FCS 449V	N/A
FCST 456	FCS 456	N/A
FCST 492	FCS 492	N/A
FCST 510	FCS 510	N/A
FCST 511	FCS 511	N/A
FCST 512	FCS 512	N/A
FCST 524	FCS 524	N/A
FCST 525	FCS 525	N/A
FCST 548	FCS 548	N/A
FCST 562	FCS 562	N/A
FCST 572	FCS 572	N/A
FCST 582	FCS 582	N/A
FCST 583	FCS 583	N/A
FCST 584	FCS 584	N/A
FCST 585	FCS 585	N/A
FCST 586	FCS 586	N/A
FCST 587	FCS 587	N/A
FCST 589	FCS 589	N/A
FCST 590	FCS 590	N/A
FCST 592	FCS 592	N/A
FCST 598	FCS 598	N/A
FCST 599	FCS 599	N/A
FDMA-FILM & DIGITAL MEDIA		
FDMA 1110	CMT 170	Common
FDMA 1120	CMT 140	Common
FDMA 1210	CMT 190	Common

FDMA 1220	CMI 216	Common
FDMA 1220	CMT 195	Common
FDMA 1260	CMT 108	Common
FDMA 1260	CMT 120	Common
FDMA 1355	CMT 100	Unique
FDMA 1360	CMT 130	Common
FDMA 1410	CMT 247	Common
FDMA 1415	CMT 206	Unique
FDMA 1510	CMI 260	Common
FDMA 1510	CMT 135	Common
FDMA 1515	CMT 145	Common
FDMA 1531	CMT 151	Unique
FDMA 1535	CMT 142	Common
FDMA 1536	CMT 242	Unique
FDMA 1545	CMT 115	Common
FDMA 1555	CMI 100	Unique
FDMA 1630	CMT 180	Common
FDMA 1710	CMT 150	Unique
FDMA 1715	CMI 245	Unique
FDMA 1720	CMT 175	Unique
FDMA 1725	CMT 185	Unique
FDMA 1996	CMT 155	Unique
FDMA 2111	CMT 220	Unique
FDMA 2112	CMT 182	Unique
FDMA 2120	CMT 126	Common
FDMA 2125	CMT 156	Common
FDMA 2144	CMT 222	Unique
FDMA 2150	CMT 240	Common
FDMA 2210	CMT 210	Unique
FDMA 2235	CMT 248	Unique
FDMA 2241	CMT 258	Unique
FDMA 2285	CMT 215	Common
FDMA 2287	CMT 223	Common
FDMA 2310	CMI 228	Unique
FDMA 2311	CMI 231	Unique
FDMA 2311	CMT 253	Unique
FDMA 2312	CMT 254	Unique
FDMA 2325	CMT 245	Common
FDMA 2326	CMT 216	Unique
FDMA 2360	CMT 230	Common
FDMA 2365	CMT 235	Unique
FDMA 2370	CMT 275	Unique
FDMA 2375	CMT 256	Common
FDMA 2381	CMI 232	Unique
FDMA 2382	CMI 235	Unique
FDMA 2383	CMT 165	Unique
FDMA 2410	CMT 236	Common
FDMA 2510	CMI 200	Common
FDMA 2520	CMI 205	Common
FDMA 2520	CMT 205	Common
FDMA 2530	CMI 280	Common
FDMA 2530	CMT 160	Common
. 5 (2000	5 100	55

FDMA 2535	CMI 240	Unique
FDMA 2550	CMT 285	Unique
FDMA 2570	CMT 292	Unique
FDMA 2710	CMI 250	Unique
FDMA 2715	CMT 260	Unique
FDMA 2720	CMI 290	Unique
FDMA 2725	CMI 270	Unique
FDMA 2730	CMT 227	Unique
FDMA 2735	CMT 290	Unique
FDMA 2740	CMT 291	Unique
FDMA 2745	CMI 233	Unique
FDMA 2750	CMT 229	Unique
FDMA 2755	CMI 220	Unique
FDMA 2760	CMT 265	Unique
FDMA 2765	CMT 225	Unique
FDMA 2770	CMT 200	Unique
FDMA 2775	CMT 252	Unique
FDMA 2780	CMT 251	Unique
FDMA 2785	CMT 228	Unique
FDMA 2993	CMT 276	Unique
FDMA 2994	CMT 295	Unique
FDMA 2995	CMT 226	Unique
FDMA 2996	CMT 255	Unique
FDMA 2997	CMT 298	Unique
FDMA 2998	CMT 221	Unique
FDMA 300	CMI 300	N/A
FDMA 301	CMI 301	N/A
FDMA 303	CMI 303	N/A
FDMA 305	CMI 305	N/A
FDMA 308	CMI 308	N/A
FDMA 309	CMI 309	N/A
FDMA 310	CMI 310	N/A
FDMA 311	CMI 311	N/A
FDMA 312	CMI 312	N/A
FDMA 314	CMI 314	N/A
FDMA 315	CMI 315	N/A
FDMA 316	CMI 316	N/A
FDMA 318	CMI 318	N/A
FDMA 320	CMI 320	N/A
FDMA 325	CMI 325	N/A
FDMA 328	CMI 328	N/A
FDMA 329	CMI 329	N/A
FDMA 330	CMI 330	N/A
FDMA 332	CMI 332	N/A
FDMA 341	CMI 341	N/A
FDMA 348	CMI 348	N/A
FDMA 350	CMI 350	N/A
FDMA 360	CMI 360	N/A
FDMA 362	CMI 360	N/A N/A
FDMA 365	CMI 365	N/A N/A
FDMA 377	CMI 377	N/A N/A
FDMA 395	CMI 377	N/A N/A
I DISID 333	CIVII 333	IV/A

FDMA 396	CMI 396	N/A
FDMA 397	CMI 397	N/A
FDMA 398	CMI 398	N/A
FDMA 400	CMI 400	N/A
FDMA 401	CMI 401	N/A
FDMA 410	CMI 410	N/A
FDMA 412	CMI 412	N/A
FDMA 420	CMI 420	N/A
FDMA 421	CMI 421	N/A
FDMA 425	CMI 425	N/A
FDMA 433	CMI 433	N/A
FDMA 450	CMI 450	N/A
FDMA 470	CMI 470	N/A
FDMA 477	CMI 477	N/A
FDMA 480	CMI 480	N/A
FDMA 490	CMI 490	N/A
FDMA 491	CMI 491	N/A
FDMA 492	CMI 492	N/A
FDMA 493	CMI 493	N/A
FDMA 494	CMI 494	N/A
FDMA 495	CMI 495	N/A
FDMA 496	CMI 496	N/A
FDMA 497	CMI 497	N/A
FREN-FRENCH		
FREN 1110	FREN 111	Common
FREN 1120	FREN 112	Common
FREN 2110	FREN 211	Common
FREN 2120	FREN 212	Common
FSTE-FOOD SCIENCE & TECHNOLOGY		
FSTE 1110G	FSTE 164G	Unique
FSTE 1120	FSTE 175	Unique
FSTE 2110G	FSTE 263G	Unique
FSTE 2120	FSTE 275	Unique
FSTE 2130G	FSTE 210G	Unique
FSTE 2996	FSTE 200	Unique
FWCE-FISH,WILDLF,CONSERV ECOL		
FWCE 1110G	FWCE 110G	Unique
FWCE 1120	FWCE 109	Unique
FWCE 2110	FWCE 255	Unique
FYEX-FIRST YEAR EXPERIENCE		
FYEX 1110	COLL 101	Common
FYEX 1112	UNIV 150	Unique
FYEX 1115	UNIV 115	Unique
FYEX 1116	COLL 103	Unique
FYEX 1117	UNIV 114	Unique
FYEX 1130	COLL 111	Unique
FYEX 1131	UNIV 110	Unique
FYEX 1132	UNIV 112	Unique
FYEX 1133	COLL 108	Unique
FYEX 1134	UNIV 113	Unique
FYEX 1140	COLL 120	Unique
FYEX 1141	UNIV 118	Unique

FYEX 1150	UNIV 117	Unique
FYEX 1160	UNIV 101	Unique
FYEX 1170	UNIV 161	Unique
FYEX 1995	UNIV 116	Unique
FYEX 1996	COLL 155	Unique
FYEX 2111	COLL 201	Unique
FYEX 2994	COLL 185	Unique
GENE-GENETICS		
GENE 1110	GENE 110	Unique
GEOG-GEOGRAPHY		
GEOG 1110G	GEOG 111G	Common
GEOG 1120G	GEOG 112G	Common
GEOG 1130G	GEOG 120G	Common
GEOG 2130	GEOG 281	Unique
GEOG 2610	GEOG 295	Unique
GEOG 2996	GEOG 291	Unique
GEOL-GEOLOGY		
GEOL 1110G	GEOL 111G	Common
GEOL 2120	GEOG 259	Common
GEOL 2130	GEOG 257	Common
GEOL 2996	GEOL 220	Unique
GNDR-WOMEN'S STUDIES		
GNDR 2110G	W S 201G	Common
GNDR 2120G	HON 218	Unique
GNDR 2120G	W S 202G	Unique
GNDR 316	W S 316	N/A
GNDR 350	W S 350	N/A
GNDR 359	W S 359	N/A
GNDR 360	W S 360	N/A
GNDR 380V	W S 380V	N/A
GNDR 381V	W S 381V	N/A
GNDR 382	W S 382	N/A
GNDR 401	W S 401	N/A
GNDR 402	W S 402	N/A
GNDR 403	W S 403	N/A
GNDR 405	W S 405	N/A
GNDR 406	W S 406	N/A
GNDR 407	W S 407	N/A
GNDR 408	W S 408	N/A
GNDR 411	W S 411	N/A
GNDR 412	W S 412	N/A
GNDR 450	W S 450	N/A
GNDR 451	W S 451	N/A
GNDR 453	W S 453	N/A
GNDR 454	W S 454	N/A
GNDR 455	W S 455	N/A
GNDR 461	W S 461	N/A
GNDR 465	W S 465	N/A
GNDR 468	W S 468	N/A
GNDR 471	W S 471	N/A
GNDR 474	W S 474	N/A
GNDR 482	W S 482	N/A

GNDR 484	W S 484	N/A
GNDR 501	W S 501	N/A
GNDR 502	W S 502	N/A
GNDR 503	W S 503	N/A
GNDR 505	W S 505	N/A
GNDR 506	W S 506	N/A
GNDR 507	W S 507	N/A
GNDR 508	W S 508	N/A
GNDR 511	W S 511	N/A
GNDR 512	W S 512	N/A
GNDR 533	W S 533	N/A
GNDR 550	W S 550	N/A
GNDR 554	W S 554	N/A
GNDR 555	W S 555	N/A
GNDR 561	W S 561	N/A
GNDR 565	W S 565	N/A
GNDR 567	W S 567	N/A
GNDR 571	W S 571	N/A
GNDR 574	W S 574	N/A
GNDR 582	W S 582	N/A
GNDR 584	W S 584	N/A
GRMN-GERMAN		.,
GRMN 1110	GER 111	Common
GRMN 1120	GER 112	Common
GRMN 2110	GER 211	Common
GRMN 2120	GER 212	Common
GRMN 305	GER 305	N/A
GRMN 313	GER 313	N/A
GRMN 325	GER 325	N/A
GRMN 330	GER 330	N/A
GRMN 333V	GER 333V	N/A
GRMN 340	GER 340	N/A
GRMN 341	GER 341	N/A
GRMN 343	GER 343	N/A
GRMN 350	GER 350	N/A
GRMN 399	GER 399	N/A
GRMN 410	GER 410	N/A
GRMN 413	GER 413	N/A
GRMN 425	GER 524	N/A
GRMN 449	GER 449	N/A
GRMN 451	GER 451	N/A
GRMN 453	GER 453	N/A
GRMN 471	GER 471	N/A
HIST-HISTORY	OLIT TI	14/1
HIST 1105G	HIST 110G	Unique
HIST 1110G	HIST 201G	Unique Common
HIST 1110G		
	HIST 202G	Common
HIST 1140C	HIST 111G	Common
HIST 1140G	HIST 112G	Common
HIST 1150G	HIST 101G	Common
HIST 1160G	HIST 102G	Common
HIST 2110	HIST 261	Common

HIST 2245G	HIST 221G	Unique
HIST 2246G	HIST 222G	Unique
HIST 2250G	HIST 211G	Unique
HIST 2251G	HIST 212G	Unique
HIST 2996	HIST 269	Unique
HLED-HEALTH EDUCATION		
HLED 1154	P E 134	Common
HMSV-HUMAN SERVICES		
HMSV 2110	S WK 253	Common
HNRS-HONORS		
HNRS 1110	HON 115	Unique
HNRS 2110G	HON 210	Unique
HNRS 2111	HON 214	Unique
HNRS 2114G	HON 208G	Unique
HNRS 2115G	HON 216G	Unique
HNRS 2116G	HON 219G	Unique
HNRS 2117G	HON 220G	Unique
HNRS 2120G	HON 222G	Unique
HNRS 2140G	HON 227G	Unique
HNRS 2141G	HON 230G	Unique
HNRS 2150G	HON 228G	Unique
HNRS 2160G	HON 229G	Unique
HNRS 2161G	HON 235G	Unique
HNRS 2170G	HON 232G	Unique
HNRS 2171G	HON 234G	Unique
HNRS 2172G	HON 237G	Unique
HNRS 2173G	HON 239G	Unique
HNRS 2174G	HON 249G	Unique
HNRS 2175G	HON 265G	Unique
HNRS 2178G	HON 270G	Unique
HNRS 2180G	HON 248G	Unique
HNRS 2185G	HON 211	Unique
HNRS 2190G	HON 242G	Unique
HNRS 2996	HON 221	Unique
HNRS 304V	HON 304V	N/A
HNRS 306V	HON 306V	N/A
HNRS 308V	HON 308V	N/A
HNRS 313	HON 313	N/A
HNRS 314	HON 314	N/A
HNRS 317V	HON 317V	N/A
HNRS 318V	HON 318V	N/A
HNRS 321V	HON 321V	N/A
HNRS 324V	HON 324V	N/A
HNRS 326V	HON 326V	N/A
HNRS 328V	HON 328V	N/A
HNRS 335V	HON 335V	N/A
HNRS 340V	HON 340V	N/A
HNRS 341V	HON 341V	N/A
HNRS 347V	HON 347V	N/A
HNRS 348V	HON 348V	N/A
HNRS 349V	HON 349V	N/A
HNRS 351V	HON 351V	N/A
- **:		•

HNRS 353V	HON 353V	N/A
HNRS 362V	HON 362V	N/A
HNRS 365V	HON 365V	N/A
HNRS 366V	HON 366V	N/A
HNRS 370V	HON 370V	N/A
HNRS 371V	HON 371V	N/A
HNRS 374V	HON 374V	N/A
HNRS 375V	HON 375V	N/A
HNRS 378V	HON 378V	N/A
HNRS 379V	HON 379V	N/A
HNRS 380V	HON 380V	N/A
HNRS 381V	HON 381V	N/A
HNRS 384V	HON 384V	N/A
HNRS 387V	HON 387V	N/A
HNRS 388V	HON 388V	N/A
HNRS 390V	HON 390V	N/A
HNRS 394V	HON 394V	N/A
HNRS 400	HON 400	N/A
HNRS 410	HON 410	N/A
HNRS 411V	HON 411	N/A
HNRS 412	HON 412	N/A
HNRS 413	HON 413	N/A
HNRS 420	HON 420	N/A
HNRS 421	HON 421	N/A
HNRS 422	HON 422	N/A
HNRS 425V	HON 425V	N/A
HNRS 450V	HON 450V	N/A
HNRS 521	HON 521	N/A
HORT-HORTICULTURE	11011 321	IVA
HORT 1115G	HORT 100G	Unique
HORT 2110	HORT 210	
HORT 2120	HORT 211	Unique
	HORT 240	Unique
HORT 2130		Unique
HORT 2160	HORT 250	Unique
HORT 2990	HORT 241	Unique
HORT 2996	HORT 200	Unique
HRTM-HOTEL/RESTRNT/TOURISM MGT	UDTM 111	Uniteres
HRTM 1110	HRTM 111	Unique
HRTM 1120	HRTM 201	Unique
HRTM 1130	HRTM 221	Unique
HRTM 2110	HRTM 231	Unique
HRTM 2120	HRTM 263	Unique
HRTM 2130	HRTM 235	Unique
HRTM 2996	HRTM 200	Unique
JAPN-JAPANESE		
JAPN 1110	JPNS 111	Common
JAPN 1120	JPNS 112	Common
JAPN 2110	JPNS 211	Common
JAPN 2120	JPNS 212	Common
LIBR-LIBRARY SCIENCE		
LIBR 1110	LIB 101	Unique
LIBR 1111	LIB 111	Unique

LING 2110G         ING 200G         Common           MATH 1130G         MATH 210G         Common           MATH 1130G         MATH 210G         Common           MATH 1131         MATH 111         Unique           MATH 1215         MATH 101         Unique           MATH 1220G         MATH 101         Unique           MATH 1220G         MATH 102         Unique           MATH 1220G         MATH 190G         Common           MATH 1390G         AST 251G         Common           MATH 1390G         A ST 251G         Common           MATH 1430G         MATH 235         Common           MATH 1430G         MATH 235         Common           MATH 1430G         MATH 235         Common           MATH 1430G         MATH 193G         Common           MATH 1430         MATH 235         Common           MATH 1430         MATH 235         Common           MATH 151G         MATH 192G         Unique           MATH 193G         MATH 192G         Unique           MATH 193G         MATH 192G         Unique           MATH 194D         MATH 192G         Unique           MATH 194D         MATH 192G         Unique <t< th=""><th></th><th></th><th></th></t<>			
LING 2100	LIBR 311V	LIB 311V	N/A
MATH-MATION         MATH 210G         Common           MATH 113G         MATH 210G         Common           MATH 1215         MATH 101         Unique           MATH 1227         MATH 101         Unique           MATH 1221G         MATH 121G         Common           MATH 1221G         MATH 102         Unique           MATH 1230G         MATH 190G         Common           MATH 1350G         A 5T 251G         Common           MATH 1430G         MATH 1425         Common           MATH 1430G         MATH 1425         Common           MATH 1430G         MATH 1235         Common           MATH 1440         MATH 235         Common           MATH 1416         MATH 192G         Unique           MATH 1821G         MATH 192G         Unique           MATH 231G         Common         MATH 231G     <	LING-LINGUISTICS		
MATH 130G         MATH 210G         Common           MATH 1314         MATH 120         Common           MATH 1217         MATH 120         Common           MATH 122G         MATH 121G         Common           MATH 122G         MATH 102G         Unique           MATH 128G         MATH 102G         Common           MATH 128G         A ST 251G         Common           MATH 138GG         A ST 251G         Common           MATH 143G         MATH 142G         Common           MATH 143B         MATH 142G         Common           MATH 143B         MATH 235         Common           MATH 143G         MATH 235         Common           MATH 151G         MATH 236         Unique           MATH 152G         Unique         Unique           MATH 1531         MATH 192G         Unique           MATH 1531         MATH 192G         Unique           MATH 1531         MATH 192G         Unique           MATH 123G         MATH 192G         Unique           MATH 23G         MATH 192G         Unique           MATH 23G         MATH 192G         Unique           MATH 23G         MATH 192G         Unique	LING 2110G	LING 200G	Common
MATH 1134         MATH 120         Common           MATH 1215         MATH 101         Unique           MATH 1220G         MATH 101         Unique           MATH 1221         MATH 102         Common           MATH 1250G         MATH 1906         Common           MATH 1350G         A ST 251G         Common           MATH 1430G         MATH 1426         Common           MATH 1430G         MATH 1426         Common           MATH 1440         MATH 1426         Common           MATH 1440         MATH 236         Common           MATH 1511G         MATH 191G         Unique           MATH 1521H         MATH 192G         Unique           MATH 1521H         MATH 192G         Unique           MATH 1928         MATH 127         Unique           MATH 1934         MATH 126         Unique           MATH 1273         MATH 226         Unique           MATH 234G         MATH 237         Unique           MATH 235         MATH 236         Common           MATH 236         MATH 237         Unique           MATH 237         Unique         MATH 236         Unique           MATH 239         MATH 236         Common	MATH-MATHEMATICS		
MATH 120         Common           MATH 1217         MATH 101         Unique           MATH 122G         MATH 121G         Common           MATH 122G         MATH 120         Unique           MATH 128DG         MATH 1906         Common           MATH 158DG         A ST 251G         Common           MATH 143DG         MATH 142G         Common           MATH 143B         MATH 123E         Common           MATH 143B         MATH 123E         Common           MATH 151IG         MATH 191C         Unique           MATH 152IG         MATH 192G         Unique           MATH 152IG         MATH 192G         Unique           MATH 1531         MATH 192G         Unique           MATH 1531         MATH 192G         Unique           MATH 1531         MATH 129         Unique           MATH 123G         MATH 120         Unique           MATH 213G         MATH 120         Unique           MATH 223G         MATH 121C         Unique           MATH 223G         MATH 121C         Unique           MATH 223G         MATH 221G         Common           MATH 223G         MATH 221G         Unique           MATH 223G <td>MATH 1130G</td> <td>MATH 210G</td> <td>Common</td>	MATH 1130G	MATH 210G	Common
MATH 1217         MATH 1216         Common           MATH 1220G         MATH 1216         Common           MATH 1221         MATH 1902         Common           MATH 1250G         MATH 1903         Common           MATH 1350G         A ST 251G         Common           MATH 1430G         MATH 1426         Common           MATH 1430G         MATH 1425         Common           MATH 1440         MATH 236         Common           MATH 1451         MATH 1916         Unique           MATH 1521G         MATH 192G         Unique           MATH 1521H         MATH 192G         Unique           MATH 1521H         MATH 192G         Unique           MATH 1996         MATH 107         Unique           MATH 1996         MATH 107         Unique           MATH 234G         MATH 1126         Unique           MATH 2250G         STAT 271G         Common           MATH 2280G         MATH 201         Unique           MATH 2380G         MATH 201         Unique           MATH 230G         MATH 201         Common           MATH 230G         MATH 201         Unique           MATH 230G         MATH 201         Unique	MATH 1134	MATH 111	Unique
MATH 1220G         MATH 121G         Common           MATH 1221         MATH 102         Unique           MATH 1230G         MATH 190G         Common           MATH 1350G         A ST 251G         Common           MATH 1350G         MATH 142G         Common           MATH 143D         MATH 142G         Common           MATH 143S         MATH 23S         Common           MATH 144U         MATH 23G         Unique           MATH 1511G         MATH 191G         Unique           MATH 1521G         MATH 192G         Unique           MATH 1521H         MATH 192GH         Unique           MATH 1531         MATH 279         Unique           MATH 1531         MATH 279         Unique           MATH 234G         MATH 112G         Unique           MATH 234G         MATH 215         Unique           MATH 234G         MATH 215         Unique           MATH 234G         MATH 216         Unique           MATH 2315         Unique         Unique           MATH 2316         MATH 280         Unique           MATH 2310         MG 201         Common           MGMT 2310         MG 309         N/A <td< td=""><td>MATH 1215</td><td>MATH 120</td><td>Common</td></td<>	MATH 1215	MATH 120	Common
MATH 1221         MATH 190G         Common           MATH 150G         MATH 190G         Common           MATH 150G         AS T251G         Common           MATH 130G         MATH 142G         Common           MATH 1430G         MATH 142G         Common           MATH 1440         MATH 235         Common           MATH 1511G         MATH 192G         Unique           MATH 1521G         MATH 192G         Unique           MATH 1521H         MATH 192GH         Unique           MATH 1521H         MATH 192GH         Unique           MATH 1521H         MATH 279         Unique           MATH 1936         MATH 112G         Unique           MATH 1234G         MATH 12G         Unique           MATH 1234G         MATH 12G         Unique           MATH 234G         MATH 12G         Unique           MATH 236G         STAT 271G         Common           MATH 2280         Unique         Unique           MATH 2392         MATH 200         Unique           MATH 2392         MATH 200         Unique           MATH 2392         MATH 200         Unique           MGMT 309         MAT 201         Common	MATH 1217	MATH 101	Unique
MATH 1250G         MATH 190G         Common           MATH 1350G         S T 251G         Common           MATH 1430G         MATH 142G         Common           MATH 1430G         MATH 142G         Common           MATH 1431         MATH 236         Common           MATH 1440         MATH 236         Common           MATH 1511G         MATH 192G         Unique           MATH 1521G         MATH 192G         Unique           MATH 1531         MATH 279         Unique           MATH 1531         MATH 279         Unique           MATH 1340         MATH 107         Unique           MATH 234G         MATH 279         Unique           MATH 234G         MATH 279         Unique           MATH 234G         MATH 280         Unique           MATH 234G         MATH 280         Unique           MATH 2415         MATH 280         Unique           MATH 2415         MATH 280         Unique           MATH 230G         MATH 280         Unique           MGMT 210         MGT 201         Common           MGMT 213         MGT 309         N/A           MGMT 310V         MGT 310V         N/A           MGMT 3	MATH 1220G	MATH 121G	Common
MATH 1350G         A ST 251G         Common           MATH 1430G         MATH 142G         Common           MATH 1435         MATH 235         Common           MATH 1435         MATH 236         Common           MATH 1440         MATH 236         Common           MATH 1511G         MATH 191G         Unique           MATH 1521G         MATH 192G         Unique           MATH 1521H         MATH 192GH         Unique           MATH 1531         MATH 279         Unique           MATH 1996         MATH 107         Unique           MATH 234G         MATH 126         Unique           MATH 2350G         STAT 271G         Common           MATH 2530G         STAT 271G         Common           MATH 2530G         MATH 291G         Unique           MATH 293G         Unique         Wath 122G           MATH 293G         Unique         Wath 122G           MATH 293D         Unique         Wath 123G	MATH 1221	MATH 102	Unique
MATH 1350G         STAT 251G         Common           MATH 1430G         MATH 142G         Common           MATH 1435         MATH 236         Common           MATH 1440         MATH 236         Common           MATH 1511G         MATH 191G         Unique           MATH 1521C         MATH 192G         Unique           MATH 1521H         MATH 192GH         Unique           MATH 1531         MATH 279         Unique           MATH 1936         MATH 107         Unique           MATH 234G         MATH 112G         Unique           MATH 2234         MATH 215         Unique           MATH 2230         STAT 271G         Common           MATH 2415         MATH 280         Unique           MATH 2291G         Common         MATH 291G         Common           MATH 291G         Common         MATH 291G         Common           MATH 291G         MGT 300         Unique         MATH 291G         Common           MGMT 2110         MGT 310V         N/A         N/A           MGMT 315V         MGT 310V         N/A         N/A           MGMT 315V         MGT 332         N/A         N/A           MGMT 335         MGT 33	MATH 1250G	MATH 190G	Common
MATH 1430G         MATH 1426         Common           MATH 1435         MATH 236         Common           MATH 1440         MATH 236         Common           MATH 1511G         MATH 191G         Unique           MATH 1521H         MATH 192GH         Unique           MATH 1531         MATH 279         Unique           MATH 1936         MATH 107         Unique           MATH 234         MATH 216         Unique           MATH 234         MATH 215         Unique           MATH 2350G         STAT 271G         Common           MATH 2350G         MATH 280         Unique           MATH 2992         MATH 290G         Common           MATH 2992         MATH 290G         Common           MATH 2992         MATH 200         Unique           MGMT 310V         MGT 301         Common           MGMT 2110         MGT 201         Common           MGMT 310V         M/A         MGT 315V         N/A           MGMT 315V         MGT 315V         N/A           MGMT 333         MGT 335         N/A           MGMT 334         MGT 335         N/A           MGMT 335         MGT 335         N/A <td< td=""><td>MATH 1350G</td><td>A ST 251G</td><td>Common</td></td<>	MATH 1350G	A ST 251G	Common
MATH 1435         MATH 235         Common           MATH 1440         MATH 236         Common           MATH 1511G         MATH 191G         Unique           MATH 1521H         MATH 192G         Unique           MATH 1521H         MATH 192GH         Unique           MATH 1531         MATH 279         Unique           MATH 1996         MATH 107         Unique           MATH 234Q         MATH 112G         Unique           MATH 2350G         MATH 2515         Unique           MATH 2350G         STAT 271G         Common           MATH 2350G         MATH 280         Unique           MATH 291G         Common         Wath 291G           MATH 292W         MATH 200         Unique           MGMT 310         MGT 309         N/A           MGMT 310         MGT 309         N/A           MGMT 310V         MGT 309         N/A           MGMT 310V         MGT 315V         N/A           MGMT 333         MGT 333         N/A           MGMT 334         MGT 335         N/A           MGMT 344         N/A         N/A           MGMT 345V         MGT 345V         N/A           MGMT 350         MGT 36	MATH 1350G	STAT 251G	Common
MATH 1440         MATH 191G         Common           MATH 1511G         MATH 192G         Unique           MATH 1521H         MATH 192GH         Unique           MATH 1531         MATH 1279         Unique           MATH 1996         MATH 107         Unique           MATH 2934G         MATH 112G         Unique           MATH 2234         MATH 15         Unique           MATH 2350G         STAT 271G         Common           MATH 2515         MATH 280         Unique           MATH 2520G         MATH 291G         Common           MATH 2929         MATH 200         Unique           MATH 2992         MATH 200         Unique           MGMT 3100         MGT 201         Common           MGMT 3100         MGT 309         N/A           MGMT 310V         MGT 309         N/A           MGMT 315V         MGT 315V         N/A           MGMT 332         MGT 332         N/A           MGMT 333         MGT 335V         N/A           MGMT 344         MGT 344         N/A           MGMT 345V         MGT 345V         N/A           MGMT 347         MGT 360V         N/A           MGMT 351         MG	MATH 1430G	MATH 142G	Common
MATH 1511G         MATH 192G         Unique           MATH 1521H         MATH 192GH         Unique           MATH 1521H         MATH 192GH         Unique           MATH 1931         MATH 279         Unique           MATH 1996         MATH 107         Unique           MATH 234G         MATH 125         Unique           MATH 2350G         STAT 271G         Common           MATH 2550G         MATH 280         Unique           MATH 292G         Common         Unique           MATH 2992         MATH 200         Unique           MATH 309         MGT 309         N/A           MGMT 310V         MGT 309         N/A           MGMT 310V         MGT 310V         N/A           MGMT 333         MGT 333         N/A           MGMT 333         MGT 333         N/A           MGMT 334         MGT 334         N/A           MGMT 345V         MGT 345V         N/A           MGMT 347         MGT 350V         N/A           MGMT 360V         MGT 3	MATH 1435	MATH 235	Common
MATH 1521G         MATH 192GH         Unique           MATH 1521H         MATH 129CH         Unique           MATH 1531         MATH 279         Unique           MATH 1996         MATH 107         Unique           MATH 2134G         MATH 2156         Unique           MATH 2234         MATH 215         Unique           MATH 230G         STAT 271G         Common           MATH 2415         MATH 280         Unique           MATH 2530G         MATH 291G         Common           MATH 292         MATH 200         Unique           MATH 2930         MATH 200         Unique           MATH 2910         MATH 200         Unique           MATH 210         MOT 201         Common           MGMT 310V         MA         A           MGMT 310V         MA         A           MGMT 315V         MA         A           MGMT 315V         MGT 315V         N/A           MGMT 333         MGT 333         N/A           MGMT 334         MGT 344         N/A           MGMT 345V         MGT 345V         N/A           MGMT 347         MGT 344         N/A           MGMT 350V         MGT 361         N	MATH 1440	MATH 236	Common
MATH 1521G         MATH 1926H         Unique           MATH 1521H         MATH 1927         Unique           MATH 1996         MATH 107         Unique           MATH 1214G         MATH 1126         Unique           MATH 2234         MATH 215         Unique           MATH 2234         MATH 216         Common           MATH 2390G         STAT 271G         Common           MATH 2415         MATH 280         Unique           MATH 2530G         MATH 291G         Common           MATH 292         MATH 200         Unique           MATH 2930         MATH 200         Unique           MGMT 210         MGT 201         Common           MGMT 310V         MGT 309         N/A           MGMT 315V         MGT 315V         N/A           MGMT 315V         MGT 333         N/A           MGMT 333         MGT 333         N/A           MGMT 334         MGT 334         N/A           MGMT 345V         MGT 345V         N/A           MGMT 347         M/A         MGT 345V         N/A           MGMT 347         MGT 345V         N/A           MGMT 350V         MGT 361         N/A           MGMT 360V	MATH 1511G	MATH 191G	Unique
MATH 1521H         MATH 1926H         Unique           MATH 1531         MATH 279         Unique           MATH 1996         MATH 107         Unique           MATH 2134G         MATH 1126         Unique           MATH 2234         MATH 215         Unique           MATH 2350G         STAT 271G         Common           MATH 2415         MATH 280         Unique           MATH 2530G         MATH 291G         Common           MATH 2992         MATH 200         Unique           MATH 2992         MATH 200         Unique           MGMT 310         MGT 201         Common           MGMT 310         MGT 309         N/A           MGMT 310V         MGT 316V         N/A           MGMT 310V         MGT 332         N/A           MGMT 333         MGT 332         N/A           MGMT 333         MGT 335V         N/A           MGMT 344         N/A         N/A           MGMT 345V         MGT 344         N/A           MGMT 347         MGT 347         N/A           MGMT 350V         MGT 360V         N/A           MGMT 361         MGT 361         N/A           MGMT 361         MGT 360V	MATH 1521G	MATH 192G	
MATH 1931         MATH 279         Unique           MATH 1996         MATH 112G         Unique           MATH 234G         MATH 215         Unique           MATH 2350G         STAT 271G         Common           MATH 2415         Unique           MATH 2530G         MATH 280         Unique           MATH 291G         Common           MATH 2992         MATH 200         Unique           MGMT 201         Common           MGMT 210         MGT 201         Common           MGMT 309         MGT 309         N/A           MGMT 310V         MGT 310V         N/A           MGMT 315V         MGT 315V         N/A           MGMT 315V         MGT 332         N/A           MGMT 333         N/A         N/A           MGMT 334         MGT 333         N/A           MGMT 345V         MGT 344         N/A           MGMT 345V         MGT 344         N/A           MGMT 345V         N/A         N/A           MGMT 347         N/A         N/A           MGMT 351         N/A         N/A           MGMT 360V         N/A         N/A           MGMT 361         N/A         N/A	MATH 1521H	MATH 192GH	
MATH 1996         MATH 107         Unique           MATH 2134G         MATH 1126         Unique           MATH 2234         MATH 215         Unique           MATH 2350G         STAT 271G         Common           MATH 2415         MATH 280         Unique           MATH 2530G         MATH 291G         Common           MATH 2992         MATH 200         Unique           MGMT 2110         MGT 201         Common           MGMT 309         MGT 310V         N/A           MGMT 315V         MGT 315V         N/A           MGMT 332         MGT 315V         N/A           MGMT 333         MGT 333         N/A           MGMT 333         MGT 335V         N/A           MGMT 344         MGT 344         N/A           MGMT 345V         MGT 345V         N/A           MGMT 347         MGT 345V         N/A           MGMT 347         MGT 351         N/A           MGMT 361         MGT 360V         N/A           MGMT 361         MGT 360V         N/A           MGMT 375V         MGT 388V         N/A           MGMT 375V         N/A         N/A           MGMT 375V         N/A <t< td=""><td>MATH 1531</td><td>MATH 279</td><td></td></t<>	MATH 1531	MATH 279	
MATH 2134G         MATH 215         Unique           MATH 2234         MATH 215         Unique           MATH 2350G         STAT 271G         Common           MATH 2415         MATH 280         Unique           MATH 2530G         MATH 291G         Common           MATH 2992         MATH 200         Unique           MGMT MANAGEMENT           MGMT 310         MGT 201         Common           MGMT 3109         MGT 309         N/A           MGMT 315V         MGT 315V         N/A           MGMT 315V         MGT 332         N/A           MGMT 332         MGT 333         N/A           MGMT 333         MGT 333         N/A           MGMT 344         MGT 344         N/A           MGMT 345V         MGT 345V         N/A           MGMT 347         MGT 347         N/A           MGMT 348         M/A         N/A           MGMT 350         MGT 361         N/A           MGMT 360V         MGT 361         N/A           MGMT 361         MGT 361         N/A           MGMT 361         MGT 361         N/A           MGMT 388V         MGT 388V         N/A           MGMT	MATH 1996	MATH 107	
MATH 2234         MATH 215G         Unique           MATH 235GG         STAT 271G         Common           MATH 2415         MATH 280         Unique           MATH 291G         Common           MATH 2992         MATH 200         Unique           MGMT-MANAGEMENT           MGMT 2110         MGT 201         Common           MGMT 309         MGT 309         N/A           MGMT 316V         MGT 315V         N/A           MGMT 315V         MGT 332         N/A           MGMT 332         MGT 333         N/A           MGMT 333         MGT 333         N/A           MGMT 344         M/A         N/A           MGMT 345V         MGT 345V         N/A           MGMT 347         MGT 347         N/A           MGMT 347         MGT 347         N/A           MGMT 360V         MGT 360V         N/A           MGMT 361         MGT 350V         N/A           MGMT 361         MGT 375V         N/A           MGMT 361         MGT 375V         N/A           MGMT 388V         MGT 388V         N/A           MGMT 448         N/A           MGMT 449         MGT 449         N/A			
MATH 2350G         STAT 271G         Common           MATH 2415         MATH 291G         Common           MATH 2992         MATH 200         Unique           MGMT-MANAGEMENT         Unique           MGMT 2110         MGT 201         Common           MGMT 309         M/A         MGT 310V         N/A           MGMT 310V         MGT 315V         N/A           MGMT 315V         MGT 315V         N/A           MGMT 332         MGT 332         N/A           MGMT 333         N/A         MGT 334           MGMT 344         MGT 344         N/A           MGMT 345V         MGT 344         N/A           MGMT 347         MGT 345         N/A           MGMT 347         MGT 361         N/A           MGMT 361         MGT 360V         N/A           MGMT 361         MGT 361         N/A           MGMT 361         MGT 361         N/A           MGMT 375V         MGT 361         N/A           MGMT 388V         MGT 388V         N/A           MGMT 391         M/A         N/A           MGMT 449         MGT 448         N/A           MGMT 449         MGT 451         N/A			
MATH 2415         MATH 291G         Common           MATH 2920         MATH 200         Unique           MATH 2992         MATH 200         Unique           MGMT-MANAGEMENT         WE           MGMT 310         MGT 201         Common           MGMT 309         MGT 309         N/A           MGMT 310V         M/A         MGT 315V           MGMT 315V         MGT 315V         N/A           MGMT 332         MGT 332         N/A           MGMT 333         MGT 333         N/A           MGMT 344         N/A         MGT 345V           MGMT 345V         MGT 344         N/A           MGMT 345V         MGT 345V         N/A           MGMT 347         MGT 347         N/A           MGMT 351         MGT 361         N/A           MGMT 360V         N/A         MGT 361           MGMT 361         MGT 361         N/A           MGMT 375V         MGT 361         N/A           MGMT 388V         N/A         N/A           MGMT 381         MGT 381         N/A           MGMT 448         MGT 449         N/A           MGMT 449         MGT 449         N/A           MGMT 451			
MATH 2530G         MATH 291G         Common           MATH 2992         MATH 200         Unique           MGMT-MANAGEMENT           MGMT 2110         MGT 201         Common           MGMT 3109         MGT 309         N/A           MGMT 316V         MGT 318V         N/A           MGMT 332         MGT 332         N/A           MGMT 333         MGT 333         N/A           MGMT 334         MGT 344         N/A           MGMT 345V         MGT 345V         N/A           MGMT 344         N/A         N/A           MGMT 345V         MGT 347         N/A           MGMT 347         N/A         N/A           MGMT 351         N/A         N/A           MGMT 351         N/A         N/A           MGMT 350V         MGT 360V         N/A           MGMT 360V         MGT 361         N/A           MGMT 375V         N/A         N/A           MGMT 388V         MGT 388V         N/A           MGMT 391         N/A         N/A           MGMT 392         N/A         N/A           MGMT 449         N/A         N/A           MGMT 451         N/A			
MATH 2992         MATH 200         Unique           MGMT-MANAGEMENT         WE           MGMT 2110         MGT 201         Common           MGMT 309         M/A           MGMT 310V         MGT 311V         N/A           MGMT 315V         N/A           MGMT 332         MGT 332         N/A           MGMT 333         M/A         MGT 335V         N/A           MGMT 344         MGT 344         N/A           MGMT 345V         MGT 345V         N/A           MGMT 347         MGT 347         N/A           MGMT 351         MGT 361         N/A           MGMT 360V         MGT 360V         N/A           MGMT 361         MGT 361         N/A           MGMT 375V         MGT 375V         N/A           MGMT 388V         MGT 388V         N/A           MGMT 388V         MGT 388V         N/A           MGMT 448         MGT 448         N/A           MGMT 451         N/A         N/A           MGMT 452         MGT 453         N/A           MGMT 453         MGT 454         N/A           MGMT 454         MGT 458         N/A           MGMT 458         MGT 458 <th< td=""><td></td><td></td><td></td></th<>			
MGMT-MANAGEMENT           MGMT 2110         MGT 201         Common           MGMT 309         M/A           MGMT 310V         MGT 310V         N/A           MGMT 315V         N/A           MGMT 332         MGT 315V         N/A           MGMT 333         M/A           MGMT 334         MGT 335V         N/A           MGMT 344         M/A         N/A           MGMT 345V         M/A         N/A           MGMT 345V         M/A         N/A           MGMT 345V         M/A         N/A           MGMT 345V         M/A         N/A           MGMT 347         N/A         N/A           MGMT 351         MGT 361         N/A           MGMT 360V         MGT 361         N/A           MGMT 375V         MGT 375V         N/A           MGMT 375V         MGT 388V         N/A           MGMT 388V         MGT 389V         N/A           MGMT 391         MGT 489         N/A           MGMT 449         MGT 448         N/A           MGMT 451         MGT 453         N/A           MGMT 454         MGT 453         N/A           MGMT 454         MGT 458         <			
MGMT 2110         MGT 201         Common           MGMT 309         N/A           MGMT 310V         N/A           MGMT 315V         N/A           MGMT 32         MGT 315V         N/A           MGMT 332         MGT 332         N/A           MGMT 333         MGT 333         N/A           MGMT 335V         MGT 344         N/A           MGMT 344         N/A         MGT 345V           MGMT 347         N/A         MGT 347           MGMT 351         MGT 361         N/A           MGMT 360V         M/A         MGT 361           MGMT 361         MGT 361         N/A           MGMT 375V         N/A         MGT 388V           MGMT 388V         MGT 388V         N/A           MGMT 391         N/A         MGT 391           MGMT 448         N/A         N/A           MGMT 449         N/A         N/A           MGMT 451         N/A         N/A           MGMT 453         M/A         N/A           MGMT 454         MGT 458         N/A           MGMT 458         MGT 458         N/A           MGMT 458         MGT 458         N/A           MGMT 458		MATT 200	onique
MGMT 309         MGT 310V         N/A           MGMT 315V         MGT 315V         N/A           MGMT 315V         MGT 315V         N/A           MGMT 332         MGT 332         N/A           MGMT 335V         MGT 335V         N/A           MGMT 344         MGT 344         N/A           MGMT 345V         MGT 345V         N/A           MGMT 347         MGT 347         N/A           MGMT 360V         MGT 360V         N/A           MGMT 361         MGT 360V         N/A           MGMT 375V         MGT 361         N/A           MGMT 375V         MGT 388V         N/A           MGMT 388V         MGT 388V         N/A           MGMT 391         MGT 391         N/A           MGMT 448         N/A         N/A           MGMT 449         MGT 449         N/A           MGMT 451         N/A         N/A           MGMT 453         MGT 453         N/A           MGMT 454         M/A         N/A           MGMT 458         MGT 458         N/A           MGMT 458         MGT 458         N/A           MGMT 458         MGT 458         N/A		MCT 201	Common
MGMT 310V         MGT 315V         N/A           MGMT 315V         MGT 315V         N/A           MGMT 332         MGT 332         N/A           MGMT 333         MGT 335W         N/A           MGMT 335V         MGT 335W         N/A           MGMT 344         MGT 344         N/A           MGMT 345V         MGT 347         N/A           MGMT 347         MGT 347         N/A           MGMT 351         MGT 360V         N/A           MGMT 360V         MGT 360V         N/A           MGMT 375V         MGT 375V         N/A           MGMT 388V         MGT 388V         N/A           MGMT 388V         MGT 388V         N/A           MGMT 448         MGT 448         N/A           MGMT 449         N/A         MGMT 449         N/A           MGMT 451         MGT 451         N/A           MGMT 453         MGT 454         N/A           MGMT 454         MGT 454         N/A           MGMT 458         MGT 458         N/A           MGMT 458         MGT 456         N/A           MGMT 458         MGT 456         N/A           MGMT 458         MGT 456         N/A			
MGMT 315V         MGT 315V         N/A           MGMT 332         MGT 332         N/A           MGMT 333         MGT 335V         N/A           MGMT 335V         MGT 335V         N/A           MGMT 344         MGT 344         N/A           MGMT 345V         MGT 345V         N/A           MGMT 347         MGT 347         N/A           MGMT 351         M/A         N/A           MGMT 360V         MGT 360V         N/A           MGMT 375V         MGT 361         N/A           MGMT 375V         MGT 388V         N/A           MGMT 388V         MGT 388V         N/A           MGMT 391         MGT 391         N/A           MGMT 448         MGT 448         N/A           MGMT 449         MGT 449         N/A           MGMT 451         MGT 453         N/A           MGMT 453         MGT 453         N/A           MGMT 454         MGT 458         N/A           MGMT 458         MGT 458         N/A			
MGMT 332         MGT 332         N/A           MGMT 333         MGT 335V         N/A           MGMT 344         MGT 344         N/A           MGMT 345V         MGT 345V         N/A           MGMT 347         MGT 347         N/A           MGMT 351         MGT 351         N/A           MGMT 360V         MGT 360V         N/A           MGMT 361         M/A         N/A           MGMT 375V         MGT 375V         N/A           MGMT 388V         M/A         N/A           MGMT 391         MGT 388V         N/A           MGMT 448         N/A         N/A           MGMT 448         N/A         N/A           MGMT 449         N/A         N/A           MGMT 451         N/A         N/A           MGMT 453         N/A         N/A           MGMT 454         N/A         N/A           MGMT 458         MGT 458         N/A           MGMT 458         MGT 450         N/A           MGMT 450         MGT 450         N/A			
MGMT 333         MGT 335V         N/A           MGMT 344         MGT 344         N/A           MGMT 345V         MGT 345V         N/A           MGMT 347         MGT 347         N/A           MGMT 351         MGT 360V         N/A           MGMT 360V         MGT 361         N/A           MGMT 375V         MGT 375V         N/A           MGMT 388V         MGT 388V         N/A           MGMT 391         MGT 391         N/A           MGMT 448         MGT 448         N/A           MGMT 451         MGT 451         N/A           MGMT 453         MGT 453         N/A           MGMT 454         MGT 454         N/A           MGMT 458         MGT 458         N/A           MGMT 450         MGT 458         N/A           MGMT 450         MGT 450         N/A			
MGMT 335V         MGT 335V         N/A           MGMT 344         MGT 344         N/A           MGMT 345V         MGT 345V         N/A           MGMT 347         MGT 347         N/A           MGMT 351         MGT 360V         N/A           MGMT 360V         MGT 360V         N/A           MGMT 361         MGT 361         N/A           MGMT 375V         MGT 375V         N/A           MGMT 388V         MGT 388V         N/A           MGMT 391         MGT 391         N/A           MGMT 448         N/A           MGMT 449         N/A           MGMT 451         MGT 449         N/A           MGMT 453         N/A           MGMT 454         M/A           MGMT 455         N/A           MGMT 458         N/A           MGMT 458         N/A           MGMT 458         N/A			
MGMT 344       MGT 345V       N/A         MGMT 345V       MGT 345V       N/A         MGMT 347       MGT 347       N/A         MGMT 351       MGT 351       N/A         MGMT 360V       N/A       N/A         MGMT 361       MGT 361       N/A         MGMT 375V       MGT 375V       N/A         MGMT 388V       N/A       N/A         MGMT 391       MGT 391       N/A         MGMT 448       MGT 448       N/A         MGMT 449       MGT 449       N/A         MGMT 451       MGT 451       N/A         MGMT 453       MGT 453       N/A         MGMT 454       MGT 458       N/A         MGMT 458       MGT 458       N/A         MGMT 458       MGT 460       N/A			
MGMT 345V       M/A         MGMT 347       MGT 347       N/A         MGMT 351       MGT 351       N/A         MGMT 360V       MGT 360V       N/A         MGMT 361       MGT 361       N/A         MGMT 375V       MGT 375V       N/A         MGMT 388V       N/A       MGT 391       N/A         MGMT 391       MGT 391       N/A         MGMT 448       M/A       N/A         MGMT 449       N/A       N/A         MGMT 451       MGT 451       N/A         MGMT 453       MGT 453       N/A         MGMT 454       MGT 454       N/A         MGMT 458       MGT 458       N/A         MGMT 458       MGT 450       N/A			
MGMT 347       M/A         MGMT 351       MGT 351       N/A         MGMT 360V       MGT 360V       N/A         MGMT 361       MGT 361       N/A         MGMT 375V       MGT 375V       N/A         MGMT 388V       MGT 388V       N/A         MGMT 391       MGT 391       N/A         MGMT 448       MGT 448       N/A         MGMT 449       N/A         MGMT 451       MGT 451       N/A         MGMT 453       MGT 453       N/A         MGMT 454       MGT 454       N/A         MGMT 458       MGT 458       N/A         MGMT 458       MGT 460       N/A			
MGMT 351       N/A         MGMT 360V       MGT 360V       N/A         MGMT 361       MGT 361       N/A         MGMT 375V       MGT 375V       N/A         MGMT 388V       MGT 388V       N/A         MGMT 391       MGT 391       N/A         MGMT 448       M/A       N/A         MGMT 449       MGT 449       N/A         MGMT 451       N/A       N/A         MGMT 453       MGT 453       N/A         MGMT 454       M/A       N/A         MGMT 458       MGT 458       N/A         MGMT 450       MGT 460       N/A			
MGMT 360V       M/A         MGMT 361       MGT 361       N/A         MGMT 375V       MGT 375V       N/A         MGMT 388V       MGT 388V       N/A         MGMT 391       N/A         MGMT 448       M/A         MGMT 449       N/A         MGMT 451       N/A         MGMT 453       N/A         MGMT 454       N/A         MGMT 458       MGT 458         MGMT 458       MGT 460			
MGMT 361       MGT 361       N/A         MGMT 375V       MGT 375V       N/A         MGMT 388V       MGT 388V       N/A         MGMT 391       MGT 391       N/A         MGMT 448       N/A         MGMT 449       MGT 449       N/A         MGMT 451       MGT 451       N/A         MGMT 453       MGT 453       N/A         MGMT 454       MGT 454       N/A         MGMT 458       MGT 458       N/A         MGMT 460       MGT 460       N/A			
MGMT 375V       MGT 375V       N/A         MGMT 388V       MGT 388V       N/A         MGMT 391       MGT 391       N/A         MGMT 448       MGT 448       N/A         MGMT 449       MGT 449       N/A         MGMT 451       MGT 451       N/A         MGMT 453       MGT 453       N/A         MGMT 454       MGT 454       N/A         MGMT 458       MGT 458       N/A         MGMT 460       MGT 460       N/A			
MGMT 388V       MGT 388V       N/A         MGMT 391       MGT 391       N/A         MGMT 448       MGT 448       N/A         MGMT 449       MGT 449       N/A         MGMT 451       MGT 451       N/A         MGMT 453       MGT 453       N/A         MGMT 454       MGT 454       N/A         MGMT 458       MGT 458       N/A         MGMT 460       MGT 460       N/A			
MGMT 391       MGT 391       N/A         MGMT 448       MGT 448       N/A         MGMT 449       MGT 449       N/A         MGMT 451       MGT 451       N/A         MGMT 453       MGT 453       N/A         MGMT 454       MGT 454       N/A         MGMT 458       MGT 458       N/A         MGMT 460       MGT 460       N/A	MGMT 375V		
MGMT 448       MGT 448       N/A         MGMT 449       MGT 449       N/A         MGMT 451       MGT 451       N/A         MGMT 453       MGT 453       N/A         MGMT 454       MGT 454       N/A         MGMT 458       MGT 458       N/A         MGMT 460       MGT 460       N/A	MGMT 388V		
MGMT 449       MGT 449       N/A         MGMT 451       MGT 451       N/A         MGMT 453       MGT 453       N/A         MGMT 454       MGT 454       N/A         MGMT 458       MGT 458       N/A         MGMT 460       MGT 460       N/A			
MGMT 451       MGT 451       N/A         MGMT 453       MGT 453       N/A         MGMT 454       MGT 454       N/A         MGMT 458       MGT 458       N/A         MGMT 460       MGT 460       N/A	MGMT 448		
MGMT 453       MGT 453       N/A         MGMT 454       MGT 454       N/A         MGMT 458       MGT 458       N/A         MGMT 460       MGT 460       N/A			
MGMT 454       MGT 454       N/A         MGMT 458       MGT 458       N/A         MGMT 460       MGT 460       N/A	MGMT 451	MGT 451	N/A
MGMT 458 MGT 458 N/A MGMT 460 MGT 460 N/A	MGMT 453	MGT 453	
MGMT 460 MGT 460 N/A	MGMT 454	MGT 454	N/A
	MGMT 458	MGT 458	N/A
MGMT 461 MGT 461 N/A	MGMT 460	MGT 460	N/A
	MGMT 461	MGT 461	N/A

MGMT 465	MGT 465	N/A
MGMT 466	MGT 466	N/A
MGMT 470	MGT 470	N/A
MGMT 490	MGT 490	N/A
MGMT 491	MGT 491	N/A
MGMT 498	MGT 498	N/A
MGMT 502	MGT 502	N/A
MGMT 503	MGT 503	N/A
MGMT 512	MGT 512	N/A
MGMT 527	MGT 527	N/A
MGMT 548	MGT 548	N/A
MGMT 590	MGT 590	N/A
MGMT 591	MGT 591	N/A
MGMT 598	MGT 598	N/A
MGMT 600	MGT 600	N/A
MGMT 601	MGT 601	N/A
MGMT 640	MGT 640	N/A
MGMT 645	MGT 645	N/A
MGMT 650	MGT 650	N/A
MGMT 655	MGT 655	N/A
MGMT 660	MGT 660	N/A
MGMT 661	MGT 661	N/A
MGMT 670	MGT 670	N/A
MGMT 675	MGT 675	N/A
MGMT 685	MGT 685	N/A
MGMT 690	MGT 690	N/A
MGMT 698	MGT 698	N/A
MGMT 700	MGT 700	N/A
MKTG-MARKETING		
MKTG 2110	BMGT 210	Common
MKTG 2110	MKTG 203	Common
MUSC-MUSIC		
MUSC 1110G	MUS 201G	Common
MUSC 1130G	MUS 101G	Common
MUSC 1210	MUS 102	Common
MUSC 1310	MUS 121	Common
MUSC 1410	MUS 250	Common
MUSC 1440	MUS 141	Unique
MUSC 1450	MUS 103	Unique
MUSC 1451	MUS 104	Unique
MUSC 1460	MUS 105	Unique
MUSC 1461	MUS 106	Unique
MUSC 1470	MUS 145	Unique
MUSC 1471	MUS 146	Unique
MUSC 1472	MUS 147	Unique
MUSC 1992	MUS 130	Common
MUSC 2110	MUS 164	Common
MUSC 2110	MUS 171	Common
MUSC 2120	MUS 151	Common
MUSC 2120	MUS 160	Common
MUSC 2120	MUS 161	Common
MUSC 2120	MUS 162	Common

MUSC 2120	MUS 170	Common
MUSC 2120	MUS 172	Common
MUSC 2120	MUS 180	Common
MUSC 2120	MUS 181	Common
MUSC 2130	MUS 163	Common
MUSC 2132	MUS 174	Unique
MUSC 2151	MUS 202	Unique
MUSC 2210	MUS 262	Common
MUSC 2220	MUS 263	Common
MUSC 2240	MUS 207	Unique
MUSC 2310	MUS 273	Common
MUSC 2451	MUS 203	Unique
MUSC 2452	MUS 204	Unique
MUSC 2460	MUS 205	Unique
MUSC 2461	MUS 206	Unique
MUSC 2470	MUS 261	Unique
MUSC 2510	MUS 230	Unique
MUSC 2993	MUS 251	Unique
MUSC 2996	MUS 260	Unique
MUSC 301	MUS 301	N/A
MUSC 302	MUS 302	N/A
MUSC 303	MUS 303	N/A
MUSC 315	MUSC 315	N/A
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MUSC 318	MUS 318	N/A
MUSC 319	MUS 319	N/A
MUSC 320	MUS 320	N/A
MUSC 321	MUS 321	N/A
MUSC 322	MUS 322	N/A
MUSC 323	MUS 323	N/A
MUSC 324	MUS 324	N/A
MUSC 325	MUS 325	N/A
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MUSC 330	MUS 330	N/A
MUSC 339	MUS 339	N/A
MUSC 340	MUS 340	N/A
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MUSC 346	MUS 346	N/A
MUSC 349	MUS 349	N/A
MUSC 350	MUS 350	N/A
MUSC 351	MUS 351	N/A
MUSC 360	MUS 360	N/A
MUSC 361	MUS 361	N/A
MUSC 362	MUS 362	N/A
MUSC 363	MUS 363	N/A
MUSC 365	MUS 365	N/A
MUSC 368	MUS 368	N/A
MUSC 370	MUS 370	N/A
MUSC 372	MUS 372	N/A
MUSC 374	MUS 374	N/A

MUSC 380	MUS 380	N/A
MUSC 381	MUS 381	N/A
MUSC 386	MUSC 386	N/A
MUSC 390	MUS 390	N/A
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MUSC 392	MUS 392	N/A
MUSC 413	MUS 413	N/A
MUSC 415	MUS 415	N/A
MUSC 417	MUS 417	N/A
MUSC 420	MUS 420	N/A
MUSC 421	MUS 421	N/A
MUSC 422	MUS 422	N/A
MUSC 424	MUS 424	N/A
MUSC 429	MUS 429	N/A
MUSC 430	MUS 430	N/A
MUSC 440	MUS 440	N/A
MUSC 441	MUS 441	N/A
MUSC 450	MUS 450	N/A
MUSC 455	MUS 455	N/A
MUSC 470	MUS 470	N/A
MUSC 471	MUS 471	N/A
MUSC 475	MUS 475	N/A
MUSC 477	MUS 477	N/A
MUSC 486	MUS 486	N/A
MUSC 498	MUS 498	N/A
MUSC 511	MUS 511	N/A
MUSC 513	MUS 513	
MUSC 518	MUS 518	N/A N/A
MUSC 519	MUS 519	N/A
MUSC 521	MUS 521	N/A
MUSC 522	MUS 522	N/A
MUSC 523	MUS 523	N/A
MUSC 527	MUS 527	N/A
MUSC 528	MUS 528	N/A
MUSC 529	MUS 529	N/A
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MUSC 531	MUS 531	N/A
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MUSC 540	MUS 540	N/A
MUSC 574	MUS 574	N/A
MUSC 575	MUS 575	N/A
MUSC 576	MUS 576	N/A
MUSC 577	MUS 577	N/A
MUSC 578	MUS 578	N/A
MUSC 579	MUS 579	N/A
MUSC 580	MUS 580	N/A
MUSC 582	MUS 582	N/A
MUSC 586	MUS 586	N/A
MUSC 598	MUS 598	N/A
MUSC 599	MUS 599	N/A
NMNC-NEW MEXICO NURSING EDUCATION COM		
NMNC 3110	NURS 293	Common

NAMOS 3120 NURS 362 Common NAMOS 3135 NURS 377 Common NAMOS 3210 NURS 377 Common NAMOS 3220 NURS 378 Common NAMOS 3220 NURS 379 Common NAMOS 3220 NURS 379 Common NAMOS 3220 NURS 379 Common NAMOS 3220 NURS 395 Common NAMOS 3220 NA NA NA NAMOS 3220 NA NA NA NAMOS 3220 NA			
NAMIC 3210         NURS 378         Common           NANIC 3220         NURS 379         Common           NANIC 3230         NURS 380         Common           NANIC 3230         NURS 380         Common           NANIC 4210         NURS 396         Common           NANIC 4210         NURS 398         Common           NANIC 4210         NURS 466         Common           NANIC 4211         NURS 466         Common           NANIC 4235         NURS 467         Common           NANIC 4235         NURS 466         Common           NANIC 4235         NURS 486         Common           NANIC 4235         NURS 488         Common           NANIC 4236         NURS 488         Common           NANIC 4237         NURS 488         Common           NANIC 4236         NURS 488         Common           NANIC 4237         NURS 488         Common           NANIC 4236         NURS 488         Common           NANIC 4237         NURS 488         Common           NANIC 4238         NURS 488         Common           NURS 429         NURS 488         Common           NURS 420         NURS 488         Common	NMNC 3120	NURS 362	Common
NMMC 2320         NURS 379         Common           NMMC 2320         NURS 380         Common           NMMC 3325         NURS 386         Common           NMNC 4310         NURS 396         Common           NMNC 4320         NURS 398         Common           NMNC 4410         NURS 466         Common           NMNC 4410         NURS 466         Common           NMNC 4425         NURS 487         Common           NMNC 4436         NURS 488         Common           NMNC 4510         NURS 489         Common           NMNC 4520         NURS 489         Common           NMNC 4535         NURS 489         Common           NMNC 4545         NURS 489         Common           NMTE 210         HNDS 409         Common           NUTR 2110         HNDS 251         Common           NUTR 2120         HNDS 201         N/A           NUTR 2120         HNDS 300         N/A           NUTR 2110         HNDS 400         N/A           NUTR 3120		NURS 294	
NAMIC 23290         NURS 3179         Common           NAMIC 3235         NURS 380         Common           NAMIC 4320         NURS 396         Common           NAMIC 4320         NURS 398         Common           NAMIC 4335         NURS 388         Common           NAMIC 4410         NURS 466         Common           NAMIC 4435         NURS 468         Common           NAMIC 4435         NURS 488         Common           NAMIC 4435         NURS 488         Common           NAMIC 4510         NURS 488         Common           NAMIC 4525         NURS 488         Common           NAMIC 4545         NURS 489         Common           NAMIC 4545         NURS 489         Common           NUTR 2110         HNDS 251         Common           NUTR 2110         HNDS 251         Usingue           NUTR 2110         HNDS 250         N/A           NUTR 2110         HNDS 350         N/A           NUTR 3110         HNDS 350         N/A           NUTR 31750         HNDS 360         N/A           NUTR 31760         HNDS 460         N/A           NUTR 31760         HNDS 440         N/A           NUTR 4			
NMNC 3235         NURS 380         Common           NMNC 4310         NURS 395         Common           NMNC 4320         NURS 398         Common           NMNC 4335         NURS 466         Common           NMNC 4435         NURS 467         Common           NMNC 4435         NURS 468         Common           NMNC 4500         NURS 468         Common           NMNC 4510         NURS 488         Common           NMNC 4520         NURS 489         Common           NMNC 4535         NURS 489         Common           NMNC 4545         NURS 489         Common           NUTH 2110         NURS 489         Common           NUTH 2120         HNDS 251         Common           NUTH 2120         HNDS 251         Common           NUTH 2120         HNDS 250         N/A           NUTH 3120         HNDS 360         N/A           NUTH 3120         HNDS 360         N/A           NUTH 3120         HNDS 460         N/A           NUTH 3120         HNDS 450         N/A           NUTH 3220         HNDS 450         N/A           NUTH 3230         HNDS 450         N/A           NUTH 4220         H		NURS 378	Common
NAMIC 4310         NURS 395         Common           NIMNC 4320         NURS 396         Common           NIMNC 4335         NURS 398         Common           NIMNC 4410         NURS 466         Common           NIMNC 4415         NURS 467         Common           NIMNC 4410         NURS 488         Common           NIMNC 4410         NURS 488         Common           NIMNC 4510         NURS 486         Common           NIMNC 4520         NURS 487         Common           NIMNC 4520         NURS 488         Common           NIMNC 4520         NURS 489         Common           NIMNC 4520         NURS 489         Common           NIMNC 4520         NURS 489         Common           NUTH 2110         HNDS 290         Common           NUTH 2110         HNDS 291         Urigue           NUTH 2110         HNDS 290         N/A           NUTH 2110         HNDS 390         N/A           NUTH 3110         HNDS 390         N/A           NUTH 3110         HNDS 490         N/A           NUTH 3110         HNDS 490         N/A           NUTH 3290         HNDS 490         N/A           NUTH 3290 <td>NMNC 3230</td> <td>NURS 379</td> <td>Common</td>	NMNC 3230	NURS 379	Common
NMMC 4320         NURS 398         Common           NMMC 4335         NURS 366         Common           NMMC 4435         NURS 466         Common           NMMC 4445         NURS 468         Common           NMMC 4510         NURS 486         Common           NMMC 4520         NURS 487         Common           NMMC 4535         NURS 488         Common           NMMC 4545         NURS 489         Common           NMMC 4546         NURS 489         Common           NMMC 4510         NURS 489         Common           NMMC 4545         NURS 489         Common           NMMC 4510         NURS 459         Common           NMMC 4541         NURS 459         MA           NUTR 410         HNDS 251         Common           NUTR 3120         HNDS 450         N/A           NUTR 4210         HNDS 448         N/A           NUTR 4220         HNDS 449         N/A           NUTR 4230         HNDS 446         N/A           NUTR 4240         <	NMNC 3235	NURS 380	Common
NMNC 4335         NURS 398         Common           NMNC 4410         NURS 467         Common           NMNC 4435         NURS 468         Common           NMNC 4410         NURS 468         Common           NMNC 4310         NURS 486         Common           NMNC 4520         NURS 487         Common           NMNC 4545         NURS 489         Common           NMNC 4545         NURS 489         Common           NUTR 2110         HNDS 251         Common           NUTR 2110         HNDS 250         N/A           NUTR 3110         HNDS 360         N/A           NUTR 3110         HNDS 360         N/A           NUTR 3110         HNDS 360         N/A           NUTR 31750         HNDS 440         N/A           NUTR 3176         HNDS 440         N/A           NUTR 4210         HNDS 440         N/A           NUTR 4220         HNDS 448         N/A           NUTR 4230         HNDS 448         N/A           NUTR 4231         HNDS 449         N/A           NUTR 4236         HNDS 446         N/A           NUTR 4237         HNDS 449         N/A           NUTR 4560         HNDS 491	NMNC 4310	NURS 395	Common
NMKC 4410         NURS 466         Common           NMMC 4435         NURS 468         Common           NMMC 4510         NURS 468         Common           NMMC 4520         NURS 487         Common           NMMC 4535         NURS 488         Common           NMMC 4535         NURS 489         Common           NMMC 4535         NURS 489         Common           NUMT 2100         HNDS 251         Common           NUTR 2110         HNDS 251         Common           NUTR 3110         HNDS 250         M/A           NUTR 3120         HNDS 350         M/A           NUTR 3120         HNDS 350         M/A           NUTR 3120         HNDS 450         M/A           NUTR 3120         HNDS 450         M/A           NUTR 3120         HNDS 450         M/A           NUTR 4210         HNDS 448         M/A           NUTR 4220         HNDS 449         M/A           NUTR 4220         HNDS 446         M/A           NUTR 4233         HNDS 449         M/A           NUTR 4240         HNDS 449         M/A           NUTR 4240         HNDS 449         M/A           NUTR 4556         HNDS 401	NMNC 4320	NURS 396	Common
NMRC 4435         NURS 468         Common           NIMIC 4445         NURS 468         Common           NIMIC 4310         NURS 486         Common           NIMIC 4320         NURS 487         Common           NIMIC 4355         NURS 489         Common           NUMN 4545         NURS 489         Common           NUTR 2110         HNDS 281         Common           NUTR 2110         HNDS 251         Unique           NUTR 3110         HNDS 360         N/A           NUTR 3110         HNDS 360         N/A           NUTR 3120         HNDS 440         N/A           NUTR 3750         HNDS 440         N/A           NUTR 3796         HNDS 440         N/A           NUTR 3210         HNDS 440         N/A           NUTR 3210         HNDS 440         N/A           NUTR 4210         HNDS 446         N/A           NUTR 4220         HNDS 446         N/A           NUTR 4230         HNDS 446         N/A           NUTR 4231         HNDS 449         N/A           NUTR 4232         HNDS 449         N/A           NUTR 4550         HNDS 449         N/A           NUTR 4561         HNDS 449	NMNC 4335	NURS 398	Common
NMRC 4445         NURS 468         Common           NIMNC 4570         NURS 487         Common           NIMNC 4325         NURS 488         Common           NIMNC 4545         NURS 488         Common           NIMNC 4545         NURS 489         Common           NURS WITH YOUR YOUR YOUR YOUR YOUR YOUR YOUR YOUR	NMNC 4410	NURS 466	Common
NMNC 4510         NURS 486         Common           NMNC 4520         NURS 488         Common           NMNC 4535         NURS 489         Common           NMNC 4545         NURS 489         Common           NUTR 2100         HNDS 251         Common           NUTR 21120         HNDS 201         Unique           NUTR 3110         HNDS 350         N/A           NUTR 3120         HNDS 440         N/A           NUTR 3750         HNDS 450         N/A           NUTR 3170         HNDS 450         N/A           NUTR 4120         HNDS 440         N/A           NUTR 4210         HNDS 440         N/A           NUTR 4220         HNDS 430         N/A           NUTR 4220         HNDS 446         N/A           NUTR 4233         HNDS 446         N/A           NUTR 4233         HNDS 446         N/A           NUTR 4240         HNDS 449         N/A           NUTR 4240         HNDS 449         N/A           NUTR 4560         HNDS 449         N/A           NUTR 4561         HNDS 449         N/A           NUTR 4560         HNDS 440         N/A           NUTR 4561         HNDS 450 <t< td=""><td>NMNC 4435</td><td>NURS 467</td><td>Common</td></t<>	NMNC 4435	NURS 467	Common
NNMC 4520         NURS 487         Common           NMMC 4535         NURS 488         Common           NMMC 4545         NURS 489         Common           NUTR 2110         HNDS 251         Common           NUTR 2120         HNDS 201         Unique           NUTR 3110         HNDS 360         N/A           NUTR 3120         HNDS 360         N/A           NUTR 3120         HNDS 460         N/A           NUTR 3790         HNDS 460         N/A           NUTR 4210         HNDS 450         N/A           NUTR 4210         HNDS 448         N/A           NUTR 4220         HNDS 448         N/A           NUTR 4220         HNDS 449         N/A           NUTR 4230.         HNDS 446         N/A           NUTR 4231         HNDS 446         N/A           NUTR 4232         HNDS 446         N/A           NUTR 4233         HNDS 446         N/A           NUTR 4236         HNDS 449         N/A           NUTR 4240         HNDS 449         N/A           NUTR 4256         HNDS 449         N/A           NUTR 4566         HNDS 401         N/A           NUTR 4567         HNDS 401         N	NMNC 4445	NURS 468	Common
NMRC 4535         NURS 489         Common           NMRC 4545         NURS 489         Common           NURD VITR PUTR NUTR         Common           NUTR 2110         HNDS 251         Common           NUTR 2120         HNDS 201         Unique           NUTR 3110         HNDS 360         N/A           NUTR 3120         HNDS 440         N/A           NUTR 3750         HNDS 440         N/A           NUTR 3910         HNDS 440         N/A           NUTR 4110         HNDS 448         N/A           NUTR 4210         HNDS 448         N/A           NUTR 4220         HNDS 403         N/A           NUTR 4230         HNDS 446         N/A           NUTR 4230         HNDS 446         N/A           NUTR 4231         HNDS 446         N/A           NUTR 4232         HNDS 446         N/A           NUTR 4234         HNDS 445         N/A           NUTR 4240         HNDS 445         N/A           NUTR 4250         HNDS 449         N/A           NUTR 4550         HNDS 441         N/A           NUTR 4550         HNDS 455         N/A           NUTR 4500         HNDS 456         N/A	NMNC 4510	NURS 486	Common
NNMC 4545         NURS 489         Common           NUTR-NUTRIUTION         VICTA-NUTRICTION         Common           NUTR 2120         HNDS 201         Unique           NUTR 3110         HNDS 350         N/A           NUTR 3120         HNDS 460         N/A           NUTR 3750         HNDS 440         N/A           NUTR 9996         HNDS 450         N/A           NUTR 4210         HNDS 443         N/A           NUTR 4220         HNDS 403         N/A           NUTR 4230         HNDS 446         N/A           NUTR 4230         HNDS 446         N/A           NUTR 4231         HNDS 446         N/A           NUTR 4232         HNDS 446         N/A           NUTR 4233         HNDS 446         N/A           NUTR 4240         HNDS 445         N/A           NUTR 425         HNDS 445         N/A           NUTR 4560         HNDS 449         N/A           NUTR 4560         HNDS 449         N/A           NUTR 4566         HNDS 492         N/A           NUTR 510         HNDS 540         N/A           NUTR 510         HNDS 540         N/A           NUTR 520         HNDS 561 <t< td=""><td>NMNC 4520</td><td>NURS 487</td><td>Common</td></t<>	NMNC 4520	NURS 487	Common
NUTR 2110         HNDS 251         Common           NUTR 2120         HNDS 201         Unique           NUTR 3110         HNDS 350         N/A           NUTR 3120         HNDS 360         N/A           NUTR 3170         HNDS 460         N/A           NUTR 3750         HNDS 450         N/A           NUTR 3996         HNDS 450         N/A           NUTR 4110         HNDS 448         N/A           NUTR 4210         HNDS 430         N/A           NUTR 4220         HNDS 430         N/A           NUTR 4230         HNDS 446         N/A           NUTR 4230         HNDS 440         N/A           NUTR 4230         HNDS 440         N/A           NUTR 4240         HNDS 455         N/A           NUTR 4241         HNDS 455         N/A           NUTR 4566         HNDS 455         N/A           NUTR 4566         HNDS 407         N/A           NUTR 910         HNDS 548         N/A           NUTR 910         HNDS 550         N/A	NMNC 4535	NURS 488	Common
NUTR 2110         HNDS 251         Common           NUTR 2120         HNDS 201         Unique           NUTR 3110         HNDS 360         N/A           NUTR 3120         HNDS 360         N/A           NUTR 3750         HNDS 440         N/A           NUTR 3996         HNDS 450         N/A           NUTR 4110         HNDS 448         N/A           NUTR 4210         HNDS 430         N/A           NUTR 4220         HNDS 430         N/A           NUTR 4230         HNDS 446         N/A           NUTR 4231         HNDS 446         N/A           NUTR 4232         HNDS 446         N/A           NUTR 4233         HNDS 455         N/A           NUTR 4234         HNDS 405         N/A           NUTR 4240         HNDS 449         N/A           NUTR 4250         HNDS 449         N/A           NUTR 4550         HNDS 455         N/A           NUTR 4550         HNDS 401         N/A           NUTR 4565         HNDS 407         N/A           NUTR 5150         HNDS 548         N/A           NUTR 5150         HNDS 551         N/A           NUTR 5210         HNDS 556         N/A	NMNC 4545	NURS 489	Common
NUTR 2120         HNDS 201         Unique           NUTR 3110         HNDS 350         N/A           NUTR 3120         HNDS 360         N/A           NUTR 3750         HNDS 440         N/A           NUTR 3996         HNDS 450         N/A           NUTR 4110         HNDS 448         N/A           NUTR 4210         HNDS 403         N/A           NUTR 4220         HNDS 430         N/A           NUTR 4230         HNDS 446         N/A           NUTR 4230         HNDS 446         N/A           NUTR 4231         HNDS 446         N/A           NUTR 4232         HNDS 446         N/A           NUTR 4233         HNDS 420         N/A           NUTR 4240         HNDS 405         N/A           NUTR 4241         HNDS 495         N/A           NUTR 4250         HNDS 495         N/A           NUTR 4550         HNDS 495         N/A           NUTR 4560         HNDS 491         N/A           NUTR 4911         HNDS 492         N/A           NUTR 5150         HNDS 500         N/A           NUTR 520         HNDS 551         N/A           NUTR 5230         HNDS 566         N/A </td <td>NUTR-NUTRITION</td> <td></td> <td></td>	NUTR-NUTRITION		
NUTR 3110 HINDS 350 N/A  NUTR 3120 HINDS 360 N/A  NUTR 3750 HINDS 440 N/A  NUTR 3996 HINDS 450 N/A  NUTR 4110 HINDS 488 N/A  NUTR 4210 HINDS 430 N/A  NUTR 4220 HINDS 430 N/A  NUTR 4230 HINDS 446 N/A  NUTR 4230 HINDS 446 N/A  NUTR 4231 HINDS 445 N/A  NUTR 4232 HINDS 455 N/A  NUTR 4235 HINDS 455 N/A  NUTR 4240 HINDS 449 N/A  NUTR 4240 HINDS 449 N/A  NUTR 4255 HINDS 455 N/A  NUTR 4260 HINDS 449 N/A  NUTR 4260 HINDS 449 N/A  NUTR 4270 HINDS 455 N/A  NUTR 4550 HINDS 455 N/A  NUTR 4550 HINDS 455 N/A  NUTR 4566 HINDS 401 N/A  NUTR 4566 HINDS 402 N/A  NUTR 5150 HINDS 403 N/A  NUTR 5150 HINDS 548 N/A  NUTR 5150 HINDS 554 N/A  NUTR 520 HINDS 550 N/A  NUTR 5230 HINDS 550 N/A  NUTR 5233 HINDS 550 N/A  NUTR 5233 HINDS 550 N/A  NUTR 5240 HINDS 550 N/A  NUTR 550 HINDS 550 N/A  NUTR 520 HINDS 560 N/A  NUTR 550 N/A  NUTR 550 HINDS 560 N/A  NUTR 550 HINDS 560 N/A  NUTR 560 HINDS 566 N/A  NUTR 560 HINDS 566 N/A  NUTR 560 HINDS 566 N/A  NUTR 5600 HINDS 566 N/A	NUTR 2110	HNDS 251	Common
NUTR 3120         HNDS 360         N/A           NUTR 3750         HNDS 440         N/A           NUTR 3996         HNDS 448         N/A           NUTR 4110         HNDS 448         N/A           NUTR 4210         HNDS 403         N/A           NUTR 4220         HNDS 446         N/A           NUTR 4230         HNDS 446         N/A           NUTR 4231         HNDS 445         N/A           NUTR 4233         HNDS 420         N/A           NUTR 4234         HNDS 449         N/A           NUTR 4240         HNDS 449         N/A           NUTR 4240         HNDS 449         N/A           NUTR 4550         HNDS 455         N/A           NUTR 4560         HNDS 401         N/A           NUTR 4560         HNDS 407         N/A           NUTR 4911         HNDS 492         N/A           NUTR 5100         HNDS 504         N/A           NUTR 5210         HNDS 500         N/A           NUTR 5220         HNDS 501         N/A           NUTR 5230         HNDS 546         N/A           NUTR 5232         HNDS 546         N/A           NUTR 5610         HNDS 562         N/A <td>NUTR 2120</td> <td>HNDS 201</td> <td>Unique</td>	NUTR 2120	HNDS 201	Unique
NUTR 3750         HNDS 440         N/A           NUTR 3996         HNDS 450         N/A           NUTR 4110         HNDS 403         N/A           NUTR 4210         HNDS 403         N/A           NUTR 4220         HNDS 430         N/A           NUTR 4230         HNDS 446         N/A           NUTR 4230L         HNDS 446         N/A           NUTR 4233         HNDS 405         N/A           NUTR 4243         HNDS 405         N/A           NUTR 4240L         HNDS 449         N/A           NUTR 4240L         HNDS 449         N/A           NUTR 4550         HNDS 455         N/A           NUTR 4560         HNDS 401         N/A           NUTR 4560         HNDS 401         N/A           NUTR 4561         HNDS 402         N/A           NUTR 4560         HNDS 501         N/A           NUTR 4561         HNDS 502         N/A           NUTR 4510         HNDS 508         N/A           NUTR 5150         HNDS 501         N/A           NUTR 5200         HNDS 501         N/A           NUTR 5230         HNDS 506         N/A           NUTR 5610         HNDS 562         N/A     <	NUTR 3110	HNDS 350	N/A
NUTR 3996         HNDS 448         N/A           NUTR 4110         HNDS 448         N/A           NUTR 4210         HNDS 430         N/A           NUTR 4220         HNDS 430         N/A           NUTR 4230         HNDS 446         N/A           NUTR 4231         HNDS 446 L         N/A           NUTR 4233         HNDS 405         N/A           NUTR 4235         HNDS 405         N/A           NUTR 4240         HNDS 449 L         N/A           NUTR 4256         HNDS 491         N/A           NUTR 4550         HNDS 492 L         N/A           NUTR 4560         HNDS 401         N/A           NUTR 4565         HNDS 401         N/A           NUTR 4911         HNDS 492         N/A           NUTR 5110         HNDS 500         N/A           NUTR 5210         HNDS 500         N/A           NUTR 5210         HNDS 530         N/A           NUTR 5230         HNDS 546         N/A           NUTR 5230         HNDS 546         N/A           NUTR 5233         HNDS 549         N/A           NUTR 5620         HNDS 562         N/A           NUTR 5630         HNDS 563         N/A	NUTR 3120	HNDS 360	N/A
NUTR 4110         HNDS 448         N/A           NUTR 4210         HNDS 403         N/A           NUTR 4220         HNDS 446         N/A           NUTR 4230         HNDS 446 L         N/A           NUTR 4231         HNDS 446 L         N/A           NUTR 4233         HNDS 420         N/A           NUTR 4235         HNDS 405         N/A           NUTR 4240         HNDS 449         N/A           NUTR 42401         HNDS 449 L         N/A           NUTR 4550         HNDS 491         N/A           NUTR 4560         HNDS 401         N/A           NUTR 4560         HNDS 407         N/A           NUTR 4561         HNDS 492         N/A           NUTR 5110         HNDS 548         N/A           NUTR 5150         HNDS 548         N/A           NUTR 5210         HNDS 551         N/A           NUTR 5210         HNDS 561         N/A           NUTR 5230         HNDS 546         N/A           NUTR 5230         HNDS 546         N/A           NUTR 5233         HNDS 549         N/A           NUTR 5610         HNDS 569         N/A           NUTR 5620         HNDS 569         N/A	NUTR 3750	HNDS 440	N/A
NUTR 4210         HNDS 403         N/A           NUTR 4220         HNDS 430         N/A           NUTR 4230         HNDS 446         N/A           NUTR 4230L         HNDS 446 L         N/A           NUTR 4233         HNDS 420         N/A           NUTR 4235         HNDS 405         N/A           NUTR 4240         HNDS 449         N/A           NUTR 4240L         HNDS 491         N/A           NUTR 4550         HNDS 455         N/A           NUTR 4560         HNDS 401         N/A           NUTR 4560         HNDS 401         N/A           NUTR 4565         HNDS 407         N/A           NUTR 4511         HNDS 542         N/A           NUTR 5110         HNDS 548         N/A           NUTR 5210         HNDS 550         N/A           NUTR 5210         HNDS 551         N/A           NUTR 5230         HNDS 546         N/A           NUTR 5233         HNDS 546         N/A           NUTR 5233         HNDS 550         N/A           NUTR 5260         HNDS 560         N/A           NUTR 5610         HNDS 562         N/A           NUTR 5620         HNDS 563         N/A	NUTR 3996	HNDS 450	N/A
NUTR 4220 HNDS 430 N/A NUTR 4230 HNDS 446 N/A NUTR 4230L HNDS 446 L N/A NUTR 4233 HNDS 420 N/A NUTR 4235 HNDS 450 N/A NUTR 4240L HNDS 449 N/A NUTR 4240L HNDS 449 N/A NUTR 4550 HNDS 455 N/A NUTR 4560 HNDS 451 N/A NUTR 4566 HNDS 407 N/A NUTR 4561 HNDS 458 N/A NUTR 5150 HNDS 548 N/A NUTR 5150 HNDS 551 N/A NUTR 5220 HNDS 551 N/A NUTR 5230 HNDS 546 N/A NUTR 5230 HNDS 556 N/A NUTR 5230 HNDS 556 N/A NUTR 5230 HNDS 556 N/A NUTR 5240 HNDS 559 N/A NUTR 5250 N/A NUTR 5250 N/A NUTR 5260 HNDS 550 N/A NUTR 5260 N/A NUTR 5260 HNDS 550 N/A NUTR 5260 N/A NUTR 5610 HNDS 562 N/A NUTR 5630 HNDS 564 N/A NUTR 5650 HNDS 565 N/A NUTR 5650 HNDS 566 N/A	NUTR 4110	HNDS 448	N/A
NUTR 4230         HNDS 446 L         N/A           NUTR 4233 L         HNDS 446 L         N/A           NUTR 4233         HNDS 420         N/A           NUTR 4235 HNDS 405         N/A           NUTR 4240 HNDS 449 L         N/A           NUTR 4240L HNDS 449 L         N/A           NUTR 4550 HNDS 455         N/A           NUTR 4560 HNDS 401 N/A         N/A           NUTR 4565 HNDS 407 N/A         N/A           NUTR 4911 HNDS 492 N/A         N/A           NUTR 5110 HNDS 548 N/A         N/A           NUTR 5210 HNDS 550 N/A         N/A           NUTR 5220 HNDS 546 N/A         N/A           NUTR 5230 HNDS 546 N/A         N/A           NUTR 5233 HNDS 546 N/A         N/A           NUTR 5230 HNDS 549 N/A         N/A           NUTR 5240 HNDS 549 N/A         N/A           NUTR 5610 HNDS 560 N/A         N/A           NUTR 5620 HNDS 562 N/A         N/A           NUTR 5630 HNDS 563 N/A         N/A           NUTR 5650 HNDS 566 N/A         N/A           NUTR 5660 HNDS 566 N/A         N/A           NUTR 5660 HNDS 566 N/A         N/A	NUTR 4210	HNDS 403	N/A
NUTR 4230L         HNDS 446 L         N/A           NUTR 4233         HNDS 420         N/A           NUTR 4235         HNDS 405         N/A           NUTR 4240L         HNDS 449         N/A           NUTR 4250.         HNDS 449 L         N/A           NUTR 4550         HNDS 455         N/A           NUTR 4560         HNDS 401         N/A           NUTR 4565         HNDS 407         N/A           NUTR 4911         HNDS 492         N/A           NUTR 5110         HNDS 548         N/A           NUTR 5150         HNDS 500         N/A           NUTR 5210         HNDS 551         N/A           NUTR 5220         HNDS 530         N/A           NUTR 5230         HNDS 546         N/A           NUTR 5230         HNDS 546         N/A           NUTR 5233         HNDS 549         N/A           NUTR 5240         HNDS 549         N/A           NUTR 5610         HNDS 560         N/A           NUTR 5620         HNDS 562         N/A           NUTR 5630         HNDS 563         N/A           NUTR 5650         HNDS 566         N/A           NUTR 5660         HNDS 566         N/A	NUTR 4220	HNDS 430	N/A
NUTR 4233         HNDS 420         N/A           NUTR 4235         HNDS 405         N/A           NUTR 4240         HNDS 449         N/A           NUTR 4240L         HNDS 449 L         N/A           NUTR 4250         HNDS 455         N/A           NUTR 4560         HNDS 401         N/A           NUTR 4565         HNDS 407         N/A           NUTR 4911         HNDS 492         N/A           NUTR 5110         HNDS 548         N/A           NUTR 5150         HNDS 500         N/A           NUTR 5210         HNDS 551         N/A           NUTR 5220         HNDS 530         N/A           NUTR 5230         HNDS 546         N/A           NUTR 5233         HNDS 546         N/A           NUTR 5230         HNDS 549         N/A           NUTR 5210         HNDS 560         N/A           NUTR 5230         HNDS 546         N/A           NUTR 5230         HNDS 546         N/A           NUTR 5610         HNDS 569         N/A           NUTR 5620         HNDS 562         N/A           NUTR 5630         HNDS 564         N/A           NUTR 5640         HNDS 565         N/A     <	NUTR 4230	HNDS 446	N/A
NUTR 4235	NUTR 4230L	HNDS 446 L	N/A
NUTR 4240L         HNDS 449 L         N/A           NUTR 4250L         HNDS 449 L         N/A           NUTR 4550         HNDS 455         N/A           NUTR 4560         HNDS 401         N/A           NUTR 4565         HNDS 407         N/A           NUTR 4911         HNDS 492         N/A           NUTR 5100         HNDS 548         N/A           NUTR 5150         HNDS 500         N/A           NUTR 5210         HNDS 551         N/A           NUTR 5220         HNDS 530         N/A           NUTR 5230         HNDS 546         N/A           NUTR 5230         HNDS 560         N/A           NUTR 5610         HNDS 569         N/A           NUTR 5610         HNDS 560         N/A           NUTR 5620         HNDS 563         N/A           NUTR 5640         HNDS 564         N/A           NUTR 5650         HNDS 566         N/A           NUTR 5660         HNDS 566         N/A	NUTR 4233	HNDS 420	N/A
NUTR 4240L         HNDS 449 L         N/A           NUTR 4550         HNDS 455         N/A           NUTR 4560         HNDS 401         N/A           NUTR 4565         HNDS 407         N/A           NUTR 4911         HNDS 492         N/A           NUTR 5110         HNDS 548         N/A           NUTR 5150         HNDS 500         N/A           NUTR 5210         HNDS 551         N/A           NUTR 5220         HNDS 530         N/A           NUTR 5230         HNDS 546         N/A           NUTR 5230         HNDS 546         N/A           NUTR 5233         HNDS 520         N/A           NUTR 5240         HNDS 549         N/A           NUTR 5610         HNDS 560         N/A           NUTR 5620         HNDS 562         N/A           NUTR 5630         HNDS 563         N/A           NUTR 5640         HNDS 565         N/A           NUTR 5650         HNDS 565         N/A           NUTR 5660         HNDS 566         N/A           NUTR 5680         HNDS 568         N/A	NUTR 4235	HNDS 405	N/A
NUTR 4550       HNDS 455       N/A         NUTR 4560       HNDS 401       N/A         NUTR 4565       HNDS 407       N/A         NUTR 4911       HNDS 492       N/A         NUTR 5110       HNDS 548       N/A         NUTR 5150       HNDS 500       N/A         NUTR 5210       HNDS 551       N/A         NUTR 5220       HNDS 530       N/A         NUTR 5230       HNDS 546       N/A         NUTR 5233       HNDS 546       N/A         NUTR 5234       HNDS 549       N/A         NUTR 5610       HNDS 549       N/A         NUTR 5620       HNDS 562       N/A         NUTR 5620       HNDS 562       N/A         NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 565       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A	NUTR 4240	HNDS 449	
NUTR 4560       HNDS 407       N/A         NUTR 4565       HNDS 407       N/A         NUTR 4911       HNDS 492       N/A         NUTR 5110       HNDS 548       N/A         NUTR 5150       HNDS 500       N/A         NUTR 5210       HNDS 551       N/A         NUTR 5220       HNDS 530       N/A         NUTR 5230       HNDS 546       N/A         NUTR 5233       HNDS 546       N/A         NUTR 5234       HNDS 549       N/A         NUTR 5610       HNDS 560       N/A         NUTR 5620       HNDS 562       N/A         NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A			
NUTR 4565       HNDS 407       N/A         NUTR 4911       HNDS 492       N/A         NUTR 5110       HNDS 548       N/A         NUTR 5150       HNDS 500       N/A         NUTR 5210       HNDS 551       N/A         NUTR 5220       HNDS 530       N/A         NUTR 5230       HNDS 546       N/A         NUTR 5233       HNDS 546       N/A         NUTR 5240       HNDS 549       N/A         NUTR 5610       HNDS 560       N/A         NUTR 5620       HNDS 562       N/A         NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5660       HNDS 568       N/A	NUTR 4550		
NUTR 4911       HNDS 492       N/A         NUTR 5110       HNDS 548       N/A         NUTR 5150       HNDS 500       N/A         NUTR 5210       HNDS 551       N/A         NUTR 5220       HNDS 530       N/A         NUTR 5230       HNDS 546       N/A         NUTR 5233       HNDS 546       N/A         NUTR 5234       HNDS 549       N/A         NUTR 5610       HNDS 560       N/A         NUTR 5620       HNDS 562       N/A         NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A	NUTR 4560	HNDS 401	N/A
NUTR 5110       HNDS 548       N/A         NUTR 5150       HNDS 500       N/A         NUTR 5210       HNDS 551       N/A         NUTR 5220       HNDS 530       N/A         NUTR 5230       HNDS 546       N/A         NUTR 5233       HNDS 546       N/A         NUTR 5240       HNDS 549       N/A         NUTR 5610       HNDS 560       N/A         NUTR 5620       HNDS 562       N/A         NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A		HNDS 407	
NUTR 5150       HNDS 500       N/A         NUTR 5210       HNDS 551       N/A         NUTR 5220       HNDS 530       N/A         NUTR 5230       HNDS 546       N/A         NUTR 5230       HNDS 546       N/A         NUTR 5233       HNDS 520       N/A         NUTR 5240       HNDS 549       N/A         NUTR 5610       HNDS 560       N/A         NUTR 5620       HNDS 562       N/A         NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A			
NUTR 5210       HNDS 551       N/A         NUTR 5220       HNDS 530       N/A         NUTR 5230       HNDS 546       N/A         NUTR 5230       HNDS 546       N/A         NUTR 5233       HNDS 520       N/A         NUTR 5240       HNDS 549       N/A         NUTR 5610       HNDS 560       N/A         NUTR 5620       HNDS 562       N/A         NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A		HNDS 548	
NUTR 5220       HNDS 530       N/A         NUTR 5230       HNDS 546       N/A         NUTR 5230       HNDS 546       N/A         NUTR 5233       HNDS 520       N/A         NUTR 5240       HNDS 549       N/A         NUTR 5610       HNDS 560       N/A         NUTR 5620       HNDS 562       N/A         NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A			
NUTR 5230       HNDS 546       N/A         NUTR 5233       HNDS 520       N/A         NUTR 5240       HNDS 549       N/A         NUTR 5610       HNDS 560       N/A         NUTR 5620       HNDS 562       N/A         NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A			
NUTR 5230       HNDS 546       N/A         NUTR 5233       HNDS 520       N/A         NUTR 5240       HNDS 549       N/A         NUTR 5610       HNDS 560       N/A         NUTR 5620       HNDS 562       N/A         NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A			
NUTR 5233       HNDS 520       N/A         NUTR 5240       HNDS 549       N/A         NUTR 5610       HNDS 560       N/A         NUTR 5620       HNDS 562       N/A         NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A			
NUTR 5240       HNDS 549       N/A         NUTR 5610       HNDS 560       N/A         NUTR 5620       HNDS 562       N/A         NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A			
NUTR 5610       HNDS 560       N/A         NUTR 5620       HNDS 562       N/A         NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A			
NUTR 5620       HNDS 562       N/A         NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A			
NUTR 5630       HNDS 563       N/A         NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A			
NUTR 5640       HNDS 564       N/A         NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A			
NUTR 5650       HNDS 565       N/A         NUTR 5660       HNDS 566       N/A         NUTR 5680       HNDS 568       N/A			
NUTR 5660         HNDS 566         N/A           NUTR 5680         HNDS 568         N/A			
NUTR 5680 HNDS 568 N/A			
NUTR 599T HNDS 598 N/A			
	NUTR 5991	HNDS 598	N/A

NUTR 5996	HNDS 590	N/A
OATS-OFFICE ADMIN TECH SYSTEMS		
OATS 101	BOT 101	N/A
OATS 102	BOT 102	N/A
OATS 105	BOT 105	N/A
OATS 106	BOT 106	N/A
OATS 109	BOT 109	N/A
OATS 110	BOT 110	N/A
OATS 120	BOT 120	N/A
OATS 121	BOT 121	N/A
OATS 135	BOT 135	N/A
OATS 140	BOT 140	N/A
OATS 150	BOT 150	N/A
OATS 169	BOT 169	N/A
OATS 170	BOT 170	N/A
OATS 171	BOT 171	N/A
OATS 191	BOT 191	N/A
OATS 202	BOT 202	N/A
OATS 203	BOT 203	N/A
OATS 205	BOT 205	N/A
OATS 206	BOT 206	N/A
OATS 207	BOT 207	N/A
OATS 208	BOT 208	N/A
OATS 209	BOT 209	N/A
OATS 211	BOT 211	N/A
OATS 213	BOT 213	N/A
OATS 214	BOT 214	N/A
OATS 215	BOT 215	N/A
OATS 217	BOT 217	N/A
OATS 218	BOT 218	N/A
OATS 220	BOT 220	N/A
OATS 221	BOT 221	N/A
OATS 222	BOT 222	N/A
OATS 223	BOT 223	N/A
OATS 228	BOT 228	N/A
OATS 233	BOT 233	N/A
OATS 239	BOT 239	N/A
OATS 240	BOT 240	N/A
OATS 241	BOT 241	N/A
OATS 244	BOT 244	N/A
OATS 250	BOT 250	N/A
OATS 255	BOT 255	N/A
OATS 260	BOT 260	N/A
OATS 270	BOT 270	N/A
PHED-PHYSICAL EDUCATION		
PHED 1110	P E 128	Common
PHED 1230	P E 147	Common
PHED 1230	P E 148	Common
PHED 1230	P E 150	Common
PHED 1290	P E 112	Common
PHED 1290	P E 113	Common
PHED 1290	P E 114	Common

PHED 1290	PE115	Common
PHED 1290	P E 117	Common
PHED 1290	P E 166	Common
PHED 1310	P E 130	Common
PHED 1320	P E 131	Common
PHED 1410	P E 199	Common
PHED 1430	P E 109	Common
PHED 1510	P E 102	Common
PHED 1510	P E 103	Common
PHED 1510	P E 127	Common
PHED 1620	P E 205	Common
PHED 1630	P E 104	Common
PHED 1670	P E 129	Common
PHED 1710	P E 159	Common
PHED 1710	P E 154	Common
PHED 1830	P E 173	Common
PHED 1910	P E 263	Common
PHED 2996	P E 270	Common
PHIL-PHILOSOPHY		
PHIL 1115G	PHIL 101G	Common
PHIL 1120G	PHIL 211G	Common
PHIL 1140G	PHIL 136G	Unique
PHIL 1145G	PHIL 100G	Unique
PHIL 1155G	PHIL 124G	Unique
PHIL 2110G	PHIL 223G	Common
PHIL 2230G	PHIL 201G	Common
PHLS-PUBLIC HEALTH SCIENCES		
PHLS 1110G	PHLS 150G	Common
PHLS 1111	PHLS 100	Unique
PHLS 2110	PHLS 275	Common
PHLS 2120	PHLS 295	Common
PHYS-PHYSICS		
PHYS 1111	PHYS 150	Unique
PHYS 1112	PHYS 210	Unique
PHYS 1115G	PHYS 110G	Common
PHYS 1125G	PHYS 120G	Common
PHYS 1230G	PHYS 211G	Common
PHYS 1230L	PHYS 211GL	Common
PHYS 1240G	PHYS 212G	Common
PHYS 1240L	PHYS 212GL	Common
PHYS 1310G	PHYS 215G	Common
PHYS 1310L	PHYS 215GL	Common
PHYS 1311	PHYS 205	Common
PHYS 1320G	PHYS 216G	Common
PHYS 1320L	PHYS 216GL	Common
PHYS 1321	PHYS 206	Common
PHYS 2110	PHYS 213	Unique
PHYS 2110L	PHYS 213 L	Unique
PHYS 2111	PHYS 203	Unique
PHYS 2120	PHYS 217	Unique
PHYS 2120L	PHYS 217 L	Unique
PHYS 2121	PHYS 218	Unique
		•

PIYS 2140   PIYS 214   Unique   PIYS 2141   Unique   PIYS 2141   PIYS 2141   PIYS 2216   Unique   PIYS 2230   PIYS 2216   Unique   PIYS 2231   PIYS 2231   PIYS 2232   Unique   PIYS 2234   Unique   PIYS 2236   Unique   PIYS 2246   PIYS 2226   Unique   PIYS 2246   PIYS 2236   Unique   PIYS 2236   Unique   PIYS 2236   PIYS 2236   Unique   PIYS 2236   PIYS 2236   Unique   PIYS 2236   PIYS 2230   Unique   PIYS 2236   PIYS 239   Unique   PIYS 2399   PIYS 2390   Unique   PIYS 2399   PIYS 2390   Unique   PIYS 2391   PIYS 2390   Unique   PIYS 2391   PIYS 2390   Unique   PIYS 2
PHYS 2141         PHYS 2216         Unique           PHYS 2230         PHYS 2216         Unique           PHYS 2231         PHYS 223         Common           PHYS 22406         PHYS 2226         Unique           PHYS 22401         PHYS 2226         Unique           PHYS 2241         PHYS 2226         Unique           PHYS 296         PHYS 290         Unique           PHYS 2997         PHYS 280         Unique           PUS-S11106         GOVT 1106         Common           POLS-PULITCAL SCIENCE         V         Common           POLS 11110         GOVT 101         Unique           POLS 11130G         GOVT 1006         Common           POLS 1130G         GOVT 150G         Common           POLS 2120G         GOVT 150G         Common           POLS 2120G         GOVT 150G         Common           POLS 300         GOVT 300         N/A           POLS 301         GOVT 300         N/A           POLS 302         GOVT 301         N/A           POLS 313         GOVT 314         N/A           POLS 321         GOVT 320         N/A           POLS 322         GOVT 320         N/A           POLS 323
PHYS 22306         PHYS 221G         Unique           PHYS 22301         PHYS 221G         Unique           PHYS 2231         PHYS 223G         Common           PHYS 22406         PHYS 222G         Unique           PHYS 2241         PHYS 224         Common           PHYS 2996         PHYS 290         Unique           PHYS 2997         PHYS 280         Unique           POLS PULITCAL SCIENCE         VOID         Unique           POLS 11106         GOVT 101         Unique           POLS 11106         GOVT 100G         Common           POLS 11206         GOVT 100G         Common           POLS 21206         GOVT 160G         Common           POLS 21206         GOVT 160G         Common           POLS 2296         GOVT 201         Unique           POLS 2306         GOVT 300         N/A           POLS 2306         GOVT 300         N/A           POLS 314         GOVT 301         N/A           POLS 314         GOVT 314         N/A           POLS 321         GOVT 320         N/A           POLS 322         GOVT 321         N/A           POLS 323         GOVT 324         N/A           POLS 325<
PHYS 2230L         PHYS 221 G         Unique           PHYS 2240G         PHYS 222G         Unique           PHYS 2240L         PHYS 222GL         Unique           PHYS 224D1         PHYS 224DL         Unique           PHYS 224D1         PHYS 224         Common           PHYS 2996         PHYS 290         Unique           PHYS 2997         PHYS 280         Unique           POLS-POLITICAL SCIENCE         W         W           POLS 11110         GOVT 101         Unique           POLS 111206         GOVT 101         Unique           POLS 11306         GOVT 100G         Common           POLS 21206         GOVT 150G         Common           POLS 21206         GOVT 150G         Common           POLS 300         GOVT 300         N/A           POLS 308         GOVT 300         N/A           POLS 313         GOVT 301         N/A           POLS 314         GOVT 301         N/A           POLS 315         GOVT 314         N/A           POLS 320         GOVT 320         N/A           POLS 321         GOVT 320         N/A           POLS 322         GOVT 321         N/A           POLS 323
PHYS 2231         PHYS 2240         Common           PHYS 22401         PHYS 22201         Unique           PHYS 2241         PHYS 2224         Common           PHYS 2996         PHYS 290         Unique           PHYS 2997         PHYS 290         Unique           POLS POLITICAL SCIENCE           POLS 11106         GOVT 1106         Common           POLS 11111         GOVT 1006         Common           POLS 11206         GOVT 1006         Common           POLS 11306         GOVT 1006         Common           POLS 21206         GOVT 201         Unique           POLS 3030         GOVT 308         N/A           POLS 303         GOVT 308         N/A           POLS 303         GOVT 308         N/A           POLS 313         N/A         N/A           POLS 313         N/A         N/A           POLS 314         GOVT 315         N/A           POLS 325         GOVT 320         N/A           POLS 326         GOVT 320         N/A           POLS 327         GOVT 324         N/A           POLS 331         M/A         N/A           POLS 334         GOVT 334         N/A
PHYS 2240C         PHYS 222GL         Unique           PHYS 2241         PHYS 224         Ommon           PHYS 2996         PHYS 290         Unique           PHYS 2997         PHYS 280         Unique           PHYS 2997         PHYS 280         Unique           POLS POLITICAL SCIENCE         W         W           POLS 1110G         GOYT 110G         Ommon           POLS 1112GG         GOYT 100G         Common           POLS 112GG         GOYT 150G         Common           POLS 212GO         GOYT 150G         Common           POLS 212GO         GOYT 30G         N/A           POLS 300         GOYT 30G         N/A           POLS 300         GOYT 30G         N/A           POLS 313         N/A         N/A           POLS 314         GOYT 314         N/A           POLS 315         GOYT 314         N/A           POLS 316         GOYT 316         N/A           POLS 321         GOYT 320         N/A           POLS 322         GOYT 326         N/A           POLS 325         GOYT 327         N/A           POLS 326         GOYT 327         N/A           POLS 331         GOYT 331
PHYS 2240L         PHYS 224         Common           PHYS 2996         PHYS 290         Unique           PHYS 2997         PHYS 280         Unique           POLS-POLITICAL SCIENCE           POLS 11106         GOVT 1106         Common           POLS 1111         GOVT 101         Unique           POLS 11120G         GOVT 1006         Common           POLS 1130G         GOVT 150G         Common           POLS 2120G         GOVT 160G         Common           POLS 2996         GOVT 201         Unique           POLS 300         GOVT 300         N/A           POLS 301         GOVT 308         N/A           POLS 313         GOVT 313         N/A           POLS 314         GOVT 314         N/A           POLS 315         GOVT 315         N/A           POLS 321         GOVT 321         N/A           POLS 322         GOVT 321         N/A           POLS 323         GOVT 324         N/A           POLS 323         GOVT 330         N/A           POLS 331         GOVT 331         N/A           POLS 332         GOVT 334         N/A           POLS 344         GOVT 344         N/
PHYS 2241         PHYS 290         Unique           PHYS 2996         PHYS 290         Unique           PHYS 2997         PHYS 280         Unique           PUS-POLITICAL SCIENCE         Unique           POLS 111106         GOVT 1106         Common           POLS 11206         GOVT 1006         Common           POLS 11206         GOVT 1506         Common           POLS 21206         GOVT 201         Unique           POLS 3000         GOVT 300         N/A           POLS 3013         GOVT 300         N/A           POLS 313         GOVT 313         N/A           POLS 313         GOVT 314         N/A           POLS 314         GOVT 314         N/A           POLS 320         GOVT 314         N/A           POLS 321         GOVT 320         N/A           POLS 321         GOVT 321         N/A           POLS 322         GOVT 321         N/A           POLS 323         GOVT 325         N/A           POLS 326         GOVT 325         N/A           POLS 336         GOVT 331         N/A           POLS 337         GOVT 343         N/A           POLS 344         N/A         N/A
PHYS 2996         PHYS 290         Unique           PHYS 2997         PHYS 290         Unique           POLS-POILTCAL SCIENCE         VERIFICATION           POLS 111106         GOVT 1101         Unique           POLS 111106         GOVT 1006         Common           POLS 11306         GOVT 1506         Common           POLS 21206         GOVT 1506         Common           POLS 2996         GOVT 201         Unique           POLS 300         GOVT 300         N/A           POLS 313         GOVT 308         N/A           POLS 314         GOVT 314         N/A           POLS 315         GOVT 314         N/A           POLS 321         GOVT 315         N/A           POLS 322         GOVT 315         N/A           POLS 321         GOVT 320         N/A           POLS 322         GOVT 321         N/A           POLS 324         GOVT 324         N/A           POLS 330         GOVT 330         N/A           POLS 331         GOVT 331         N/A           POLS 343         GOVT 343         N/A           POLS 344         GOVT 344         N/A           POLS 345         N/A
PHYS 2997         PHYS 280         Unique           POLS-POLITICAL SCIENCE         Common           POLS 11106         GOVT 101         Unique           POLS 11111         GOVT 1006         Common           POLS 11206         GOVT 1606         Common           POLS 21206         GOVT 1606         Common           POLS 2996         GOVT 201         Unique           POLS 300         GOVT 300         N/A           POLS 313         N/A         A           POLS 314         GOVT 314         N/A           POLS 315         N/A         A           POLS 321         GOVT 315         N/A           POLS 321         GOVT 321         N/A           POLS 322         GOVT 324         N/A           POLS 324         GOVT 324         N/A           POLS 325         GOVT 331         N/A           POLS 333         GOVT 331         N/A           POLS 334         N/A         N/A           POLS 335         GOVT 331         N/A           POLS 344         GOVT 344         N/A           POLS 345         GOVT 344         N/A           POLS 346         GOVT 345         N/A
POLS-POLITICAL SCIENCE           POLS 111106         GOVT 1101         Common           POLS 11111         GOVT 101         Unique           POLS 1120G         GOVT 100G         Common           POLS 1120G         GOVT 160G         Common           POLS 2120G         GOVT 160G         Common           POLS 2996         GOVT 201         Unique           POLS 300         GOVT 300         N/A           POLS 318         GOVT 313         N/A           POLS 311         GOVT 314         N/A           POLS 315         GOVT 314         N/A           POLS 320         GOVT 320         N/A           POLS 321         N/A         N/A           POLS 322         GOVT 321         N/A           POLS 323         GOVT 320         N/A           POLS 324         GOVT 324         N/A           POLS 325         N/A           POLS 330         GOVT 330         N/A           POLS 331         GOVT 331         N/A           POLS 332         GOVT 331         N/A           POLS 334         GOVT 344         N/A           POLS 345         GOVT 344         N/A           POLS 345         GOV
POLS 11110G         GOVT 101         Unique           POLS 11120G         GOVT 100G         Common           POLS 1120G         GOVT 100G         Common           POLS 2120G         GOVT 150G         Common           POLS 2120G         GOVT 160G         Common           POLS 2996         GOVT 201         Unique           POLS 300         GOVT 300         N/A           POLS 308         GOVT 308         N/A           POLS 313         GOVT 308         N/A           POLS 314         GOVT 314         N/A           POLS 315         GOVT 314         N/A           POLS 320         GOVT 320         N/A           POLS 321         GOVT 321         N/A           POLS 322         GOVT 321         N/A           POLS 324         GOVT 321         N/A           POLS 325         GOVT 324         N/A           POLS 331         GOVT 325         N/A           POLS 333         GOVT 330         N/A           POLS 334         GOVT 344         N/A           POLS 344         GOVT 344         N/A           POLS 345         N/A           POLS 346         GOVT 344         N/A
POLS 11111         GOVT 1016         Common           POLS 1120G         GOVT 100G         Common           POLS 2120G         GOVT 160G         Common           POLS 2996         GOVT 201         Unique           POLS 300         GOVT 300         N/A           POLS 308         GOVT 308         N/A           POLS 313         M/A         N/A           POLS 314         GOVT 314         N/A           POLS 315         N/A         N/A           POLS 320         GOVT 320         N/A           POLS 321         GOVT 321         N/A           POLS 322         GOVT 324         N/A           POLS 324         GOVT 325         N/A           POLS 325         GOVT 325         N/A           POLS 330         GOVT 331         N/A           POLS 331         GOVT 331         N/A           POLS 333         GOVT 335         N/A           POLS 343         GOVT 343         N/A           POLS 344         GOVT 344         N/A           POLS 345         GOVT 345         N/A           POLS 346         GOVT 346         N/A           POLS 355         GOVT 356         N/A
POLS 1120G         GOVT 100G         Common           POLS 1120G         GOVT 150G         Common           POLS 2120G         GOVT 160G         Common           POLS 2996         GOVT 201         Unique           POLS 300         GOVT 300         N/A           POLS 308         GOVT 300         N/A           POLS 313         N/A         N/A           POLS 314         GOVT 314         N/A           POLS 315         GOVT 314         N/A           POLS 320         GOVT 320         N/A           POLS 321         GOVT 321         N/A           POLS 322         GOVT 321         N/A           POLS 324         GOVT 321         N/A           POLS 333         GOVT 325         N/A           POLS 333         GOVT 325         N/A           POLS 333         GOVT 331         N/A           POLS 333         GOVT 331         N/A           POLS 343         GOVT 343         N/A           POLS 344         N/A         N/A           POLS 345         GOVT 345         N/A           POLS 346         GOVT 346         N/A           POLS 350         GOVT 354         N/A
POLS 1130G         GOVT 150G         Common           POLS 2120G         GOVT 160G         Common           POLS 2996         GOVT 201         Unique           POLS 300         GOVT 300         N/A           POLS 308         GOVT 308         N/A           POLS 313         GOVT 308         N/A           POLS 314         GOVT 314         N/A           POLS 315         GOVT 315         N/A           POLS 320         GOVT 320         N/A           POLS 321         GOVT 321         N/A           POLS 324         GOVT 324         N/A           POLS 325         GOVT 325         N/A           POLS 330         GOVT 325         N/A           POLS 331         GOVT 331         N/A           POLS 333         GOVT 331         N/A           POLS 334         GOVT 343         N/A           POLS 344         GOVT 344         N/A           POLS 345         GOVT 348         N/A           POLS 348         GOVT 348         N/A           POLS 350         GOVT 355         N/A           POLS 353         GOVT 360         N/A           POLS 361         GOVT 360         N/A
POLS 2120G         GOVT 160G         Common           POLS 2996         GOVT 201         Unique           POLS 300         GOVT 300         N/A           POLS 308         GOVT 308         N/A           POLS 313         GOVT 313         N/A           POLS 314         GOVT 314         N/A           POLS 315         GOVT 315         N/A           POLS 320         GOVT 320         N/A           POLS 321         GOVT 321         N/A           POLS 324         GOVT 324         N/A           POLS 325         GOVT 325         N/A           POLS 330         GOVT 330         N/A           POLS 331         GOVT 331         N/A           POLS 335         GOVT 335         N/A           POLS 343         GOVT 344         N/A           POLS 344         GOVT 344         N/A           POLS 348         GOVT 345         N/A           POLS 353         GOVT 353         N/A           POLS 353         GOVT 353         N/A           POLS 353         GOVT 360         N/A           POLS 361         GOVT 362         N/A           POLS 362         GOVT 366         N/A
POLS 2996         GOVT 201         Unique           POLS 300         GOVT 300         N/A           POLS 308         GOVT 308         N/A           POLS 313         N/A         N/A           POLS 314         GOVT 314         N/A           POLS 315         N/A         N/A           POLS 320         GOVT 320         N/A           POLS 321         GOVT 321         N/A           POLS 324         GOVT 324         N/A           POLS 325         GOVT 325         N/A           POLS 330         GOVT 335         N/A           POLS 331         GOVT 331         N/A           POLS 333         GOVT 331         N/A           POLS 333         GOVT 344         N/A           POLS 343         GOVT 344         N/A           POLS 345         GOVT 344         N/A           POLS 345         GOVT 348         N/A           POLS 348         GOVT 348         N/A           POLS 353         GOVT 350         N/A           POLS 353         GOVT 354         N/A           POLS 360         GOVT 360         N/A           POLS 361         GOVT 361         N/A           POLS
POLS 300         GOVT 300         N/A           POLS 308         GOVT 308         N/A           POLS 313         GOVT 313         N/A           POLS 314         GOVT 314         N/A           POLS 315         GOVT 315         N/A           POLS 320         GOVT 320         N/A           POLS 321         GOVT 321         N/A           POLS 324         GOVT 324         N/A           POLS 325         GOVT 325         N/A           POLS 330         GOVT 330         N/A           POLS 331         GOVT 331         N/A           POLS 335         GOVT 335         N/A           POLS 343         GOVT 343         N/A           POLS 344         GOVT 344         N/A           POLS 345         N/A         N/A           POLS 348         GOVT 348         N/A           POLS 348         GOVT 350         N/A           POLS 353         GOVT 350         N/A           POLS 353         GOVT 354         N/A           POLS 356         GOVT 360         N/A           POLS 361         GOVT 361         N/A           POLS 362         GOVT 366         N/A           POLS
POLS 308         GOVT 308         N/A           POLS 313         GOVT 313         N/A           POLS 314         GOVT 314         N/A           POLS 315         GOVT 315         N/A           POLS 320         GOVT 320         N/A           POLS 321         GOVT 321         N/A           POLS 324         GOVT 324         N/A           POLS 325         N/A         N/A           POLS 330         GOVT 330         N/A           POLS 331         GOVT 331         N/A           POLS 335         GOVT 331         N/A           POLS 343         GOVT 343         N/A           POLS 344         GOVT 344         N/A           POLS 345         GOVT 344         N/A           POLS 348         GOVT 348         N/A           POLS 350         GOVT 350         N/A           POLS 353         GOVT 354         N/A           POLS 354         GOVT 354         N/A           POLS 360         GOVT 360         N/A           POLS 361         GOVT 361         N/A           POLS 362         GOVT 366         N/A           POLS 367         GOVT 367         N/A           POLS
POLS 313         GOVT 314         N/A           POLS 315         GOVT 315         N/A           POLS 320         GOVT 320         N/A           POLS 321         GOVT 321         N/A           POLS 324         GOVT 324         N/A           POLS 325         GOVT 325         N/A           POLS 330         GOVT 330         N/A           POLS 331         GOVT 331         N/A           POLS 335         GOVT 335         N/A           POLS 343         GOVT 343         N/A           POLS 344         GOVT 344         N/A           POLS 345         GOVT 348         N/A           POLS 348         GOVT 348         N/A           POLS 350         GOVT 350         N/A           POLS 353         GOVT 353         N/A           POLS 354         GOVT 353         N/A           POLS 360         GOVT 360         N/A           POLS 361         GOVT 360         N/A           POLS 362         GOVT 366         N/A           POLS 367         GOVT 367         N/A           POLS 370         GOVT 367         N/A           POLS 371         GOVT 372         N/A
POLS 314         GOVT 315         N/A           POLS 315         GOVT 315         N/A           POLS 320         GOVT 320         N/A           POLS 321         GOVT 321         N/A           POLS 324         GOVT 324         N/A           POLS 325         GOVT 325         N/A           POLS 330         GOVT 330         N/A           POLS 331         GOVT 331         N/A           POLS 335         GOVT 331         N/A           POLS 343         GOVT 343         N/A           POLS 344         GOVT 344         N/A           POLS 345         GOVT 345         N/A           POLS 348         GOVT 348         N/A           POLS 350         GOVT 350         N/A           POLS 353         GOVT 350         N/A           POLS 354         GOVT 355         N/A           POLS 360         GOVT 354         N/A           POLS 361         GOVT 360         N/A           POLS 362         GOVT 366         N/A           POLS 366         GOVT 367         N/A           POLS 370         GOVT 371         N/A           POLS 371         GOVT 372         N/A
POLS 315         GOVT 315         N/A           POLS 320         GOVT 320         N/A           POLS 321         GOVT 321         N/A           POLS 324         N/A         N/A           POLS 325         GOVT 325         N/A           POLS 330         GOVT 325         N/A           POLS 331         GOVT 331         N/A           POLS 335         GOVT 335         N/A           POLS 343         GOVT 343         N/A           POLS 344         GOVT 344         N/A           POLS 348         GOVT 348         N/A           POLS 350         GOVT 348         N/A           POLS 353         GOVT 350         N/A           POLS 354         GOVT 355         N/A           POLS 354         GOVT 354         N/A           POLS 360         GOVT 360         N/A           POLS 361         GOVT 362         N/A           POLS 362         GOVT 366         N/A           POLS 367         GOVT 367         N/A           POLS 370         GOVT 367         N/A           POLS 371         GOVT 372         N/A
POLS 320         GOVT 320         N/A           POLS 321         GOVT 321         N/A           POLS 324         GOVT 324         N/A           POLS 325         GOVT 325         N/A           POLS 330         GOVT 330         N/A           POLS 331         N/A         N/A           POLS 335         GOVT 335         N/A           POLS 343         GOVT 343         N/A           POLS 344         GOVT 344         N/A           POLS 345         GOVT 348         N/A           POLS 350         GOVT 350         N/A           POLS 353         GOVT 353         N/A           POLS 354         GOVT 354         N/A           POLS 360         GOVT 360         N/A           POLS 361         GOVT 361         N/A           POLS 362         GOVT 366         N/A           POLS 366         GOVT 366         N/A           POLS 367         GOVT 367         N/A           POLS 370         GOVT 371         N/A           POLS 372         GOVT 372         N/A
POLS 321         GOVT 321         N/A           POLS 324         GOVT 324         N/A           POLS 325         GOVT 325         N/A           POLS 330         GOVT 330         N/A           POLS 331         GOVT 331         N/A           POLS 335         GOVT 335         N/A           POLS 343         GOVT 343         N/A           POLS 344         GOVT 344         N/A           POLS 348         GOVT 348         N/A           POLS 350         GOVT 350         N/A           POLS 353         GOVT 353         N/A           POLS 354         GOVT 354         N/A           POLS 353         GOVT 354         N/A           POLS 360         GOVT 360         N/A           POLS 361         GOVT 361         N/A           POLS 362         GOVT 362         N/A           POLS 366         GOVT 366         N/A           POLS 367         GOVT 366         N/A           POLS 370         GOVT 370         N/A           POLS 371         GOVT 372         N/A
POLS 324         GOVT 325         N/A           POLS 325         GOVT 325         N/A           POLS 330         GOVT 330         N/A           POLS 331         GOVT 331         N/A           POLS 335         GOVT 335         N/A           POLS 343         GOVT 343         N/A           POLS 344         GOVT 344         N/A           POLS 345         GOVT 345         N/A           POLS 348         GOVT 348         N/A           POLS 350         GOVT 350         N/A           POLS 353         GOVT 353         N/A           POLS 354         GOVT 354         N/A           POLS 356         GOVT 364         N/A           POLS 360         GOVT 360         N/A           POLS 361         GOVT 362         N/A           POLS 362         GOVT 366         N/A           POLS 367         GOVT 367         N/A           POLS 370         GOVT 370         N/A           POLS 371         GOVT 372         N/A
POLS 325         GOVT 325         N/A           POLS 330         GOVT 330         N/A           POLS 331         GOVT 331         N/A           POLS 335         GOVT 335         N/A           POLS 343         GOVT 343         N/A           POLS 344         GOVT 344         N/A           POLS 345         GOVT 345         N/A           POLS 348         GOVT 348         N/A           POLS 350         GOVT 350         N/A           POLS 353         GOVT 353         N/A           POLS 354         GOVT 354         N/A           POLS 360         GOVT 360         N/A           POLS 361         GOVT 361         N/A           POLS 362         GOVT 362         N/A           POLS 366         GOVT 366         N/A           POLS 367         GOVT 367         N/A           POLS 370         GOVT 371         N/A           POLS 372         GOVT 372         N/A
POLS 330         GOVT 330         N/A           POLS 331         GOVT 331         N/A           POLS 335         GOVT 335         N/A           POLS 343         GOVT 343         N/A           POLS 344         GOVT 344         N/A           POLS 345         GOVT 345         N/A           POLS 348         GOVT 348         N/A           POLS 350         GOVT 350         N/A           POLS 353         GOVT 353         N/A           POLS 354         GOVT 354         N/A           POLS 360         GOVT 360         N/A           POLS 361         GOVT 361         N/A           POLS 362         GOVT 362         N/A           POLS 366         GOVT 366         N/A           POLS 367         GOVT 367         N/A           POLS 370         GOVT 370         N/A           POLS 371         GOVT 372         N/A
POLS 331       GOVT 331       N/A         POLS 335       GOVT 335       N/A         POLS 343       GOVT 343       N/A         POLS 344       GOVT 344       N/A         POLS 345       N/A       N/A         POLS 348       GOVT 348       N/A         POLS 350       GOVT 350       N/A         POLS 353       GOVT 353       N/A         POLS 354       GOVT 354       N/A         POLS 360       GOVT 360       N/A         POLS 361       GOVT 361       N/A         POLS 362       GOVT 362       N/A         POLS 366       GOVT 366       N/A         POLS 367       GOVT 367       N/A         POLS 370       GOVT 370       N/A         POLS 371       GOVT 372       N/A
POLS 335       GOVT 335       N/A         POLS 343       GOVT 343       N/A         POLS 344       GOVT 344       N/A         POLS 345       N/A       N/A         POLS 348       GOVT 348       N/A         POLS 350       GOVT 350       N/A         POLS 353       GOVT 353       N/A         POLS 354       GOVT 354       N/A         POLS 360       GOVT 360       N/A         POLS 361       GOVT 361       N/A         POLS 362       GOVT 362       N/A         POLS 366       GOVT 366       N/A         POLS 367       GOVT 367       N/A         POLS 370       GOVT 370       N/A         POLS 371       GOVT 372       N/A
POLS 343       GOVT 344       N/A         POLS 344       GOVT 345       N/A         POLS 345       GOVT 345       N/A         POLS 348       GOVT 348       N/A         POLS 350       GOVT 350       N/A         POLS 353       GOVT 353       N/A         POLS 354       GOVT 354       N/A         POLS 360       GOVT 360       N/A         POLS 361       GOVT 361       N/A         POLS 362       GOVT 362       N/A         POLS 366       GOVT 366       N/A         POLS 367       GOVT 367       N/A         POLS 370       GOVT 370       N/A         POLS 371       GOVT 372       N/A
POLS 344       GOVT 344       N/A         POLS 345       GOVT 345       N/A         POLS 348       GOVT 348       N/A         POLS 350       GOVT 350       N/A         POLS 353       GOVT 353       N/A         POLS 354       GOVT 354       N/A         POLS 360       GOVT 360       N/A         POLS 361       GOVT 361       N/A         POLS 362       GOVT 362       N/A         POLS 366       GOVT 366       N/A         POLS 367       GOVT 367       N/A         POLS 370       GOVT 370       N/A         POLS 371       GOVT 372       N/A
POLS 345       GOVT 345       N/A         POLS 348       GOVT 348       N/A         POLS 350       GOVT 350       N/A         POLS 353       GOVT 353       N/A         POLS 354       GOVT 354       N/A         POLS 360       GOVT 360       N/A         POLS 361       GOVT 361       N/A         POLS 362       GOVT 362       N/A         POLS 366       GOVT 366       N/A         POLS 367       GOVT 367       N/A         POLS 370       GOVT 370       N/A         POLS 371       GOVT 372       N/A
POLS 348       GOVT 348       N/A         POLS 350       GOVT 350       N/A         POLS 353       GOVT 353       N/A         POLS 354       GOVT 354       N/A         POLS 360       GOVT 360       N/A         POLS 361       GOVT 361       N/A         POLS 362       GOVT 362       N/A         POLS 366       GOVT 366       N/A         POLS 367       GOVT 367       N/A         POLS 370       GOVT 370       N/A         POLS 371       GOVT 372       N/A
POLS 350       GOVT 350       N/A         POLS 353       GOVT 353       N/A         POLS 354       GOVT 354       N/A         POLS 360       GOVT 360       N/A         POLS 361       GOVT 361       N/A         POLS 362       GOVT 362       N/A         POLS 366       GOVT 366       N/A         POLS 367       GOVT 367       N/A         POLS 370       GOVT 370       N/A         POLS 371       GOVT 372       N/A
POLS 353       GOVT 353       N/A         POLS 354       GOVT 354       N/A         POLS 360       GOVT 360       N/A         POLS 361       GOVT 361       N/A         POLS 362       GOVT 362       N/A         POLS 366       GOVT 366       N/A         POLS 367       GOVT 367       N/A         POLS 370       GOVT 370       N/A         POLS 371       GOVT 372       N/A
POLS 354       GOVT 354       N/A         POLS 360       GOVT 360       N/A         POLS 361       GOVT 361       N/A         POLS 362       GOVT 362       N/A         POLS 366       GOVT 366       N/A         POLS 367       GOVT 367       N/A         POLS 370       GOVT 370       N/A         POLS 371       GOVT 371       N/A         POLS 372       GOVT 372       N/A
POLS 360       GOVT 360       N/A         POLS 361       GOVT 361       N/A         POLS 362       GOVT 362       N/A         POLS 366       GOVT 366       N/A         POLS 367       GOVT 367       N/A         POLS 370       GOVT 370       N/A         POLS 371       GOVT 371       N/A         POLS 372       GOVT 372       N/A
POLS 361       GOVT 361       N/A         POLS 362       GOVT 362       N/A         POLS 366       GOVT 366       N/A         POLS 367       GOVT 367       N/A         POLS 370       GOVT 370       N/A         POLS 371       GOVT 371       N/A         POLS 372       GOVT 372       N/A
POLS 362       GOVT 362       N/A         POLS 366       GOVT 366       N/A         POLS 367       GOVT 367       N/A         POLS 370       GOVT 370       N/A         POLS 371       GOVT 371       N/A         POLS 372       GOVT 372       N/A
POLS 366       GOVT 366       N/A         POLS 367       N/A         POLS 370       GOVT 370       N/A         POLS 371       GOVT 371       N/A         POLS 372       GOVT 372       N/A
POLS 367       GOVT 367       N/A         POLS 370       GOVT 370       N/A         POLS 371       GOVT 371       N/A         POLS 372       GOVT 372       N/A
POLS 370         GOVT 370         N/A           POLS 371         GOVT 371         N/A           POLS 372         GOVT 372         N/A
POLS 371 GOVT 371 N/A POLS 372 GOVT 372 N/A
POLS 372 GOVT 372 N/A
POLS 373 GOVT 373 N/A
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POLS 375 GOVT 375 N/A
POLS 378 GOVT 378 N/A
POLS 379 GOVT 379 N/A
POLS 380V GOVT 380V N/A
POLS 382 GOVT 382 N/A
POLS 383 GOVT 383 N/A

POLS 384	GOVT 384	N/A
POLS 385	GOVT 385	N/A
POLS 386	GOVT 386	N/A
POLS 387	GOVT 387	N/A
POLS 390	GOVT 390	N/A
POLS 391	GOVT 391	N/A
POLS 392	GOVT 392	N/A
POLS 394	GOVT 394	N/A
POLS 395	GOVT 395	N/A
POLS 396	GOVT 396	N/A
POLS 399	GOVT 399	N/A
POLS 405	GOVT 405	N/A
POLS 406	GOVT 406	N/A
POLS 407	GOVT 407	N/A
POLS 410	GOVT 410	N/A
POLS 411	GOVT 411	N/A
POLS 412	GOVT 412	N/A
POLS 415	GOVT 415	N/A
POLS 468	GOVT 468	N/A
POLS 469	GOVT 469	N/A
POLS 474	GOVT 474	N/A
POLS 493	GOVT 493	N/A
POLS 502	GOVT 502	N/A
POLS 503	GOVT 503	N/A
POLS 505	GOVT 505	N/A
POLS 510	GOVT 510	N/A
POLS 517	GOVT 517	N/A
POLS 519	GOVT 519	N/A
POLS 522	GOVT 522	N/A
POLS 523	GOVT 523	N/A
POLS 527	GOVT 527	N/A
POLS 530	GOVT 530	N/A
POLS 535	GOVT 535	N/A
POLS 536	GOVT 536	N/A
POLS 537	GOVT 537	N/A
POLS 540	GOVT 540	N/A
POLS 541	GOVT 541	N/A
	GOVT 541	
POLS 542		N/A
POLS 543	GOVT 543	N/A
POLS 544	GOVT 544	N/A
POLS 547	GOVT 547	N/A
POLS 548	GOVT 548	N/A
POLS 549	GOVT 549	N/A
POLS 550	GOVT 550	N/A
POLS 560	GOVT 560	N/A
POLS 561	GOVT 561	N/A
POLS 563	GOVT 563	N/A
POLS 564	GOVT 564	N/A
POLS 569	GOVT 569	N/A
POLS 570	GOVT 570	N/A
POLS 574	GOVT 574	N/A
POLS 578	GOVT 578	N/A

POLS 579	GOVT 579	N/A
POLS 580	GOVT 580	N/A
POLS 587	GOVT 587	N/A
POLS 590	GOVT 590	N/A
POLS 591	GOVT 591	N/A
POLS 593	GOVT 593	N/A
POLS 596	GOVT 596	N/A
POLS 598	GOVT 598	N/A
POLS 599	GOVT 599	N/A
PORT-PORTUGUESE		
PORT 1110	PORT 213	Common
PORT 1120	PORT 214	Common
PSYC-PSYCHOLOGY		
PSYC 1110G	PSY 201G	Common
PSYC 1120	PSY 211	Unique
PSYC 2221	PSY 266	Unique
PSYC 2230	PSY 290	Common
PSYC 2311	PSY 274	Unique
PSYC 301	PSY 301	N/A
PSYC 302	PSY 302	N/A
PSYC 310	PSY 310	N/A
PSYC 311	PSY 311	N/A
PSYC 315	PSY 315	N/A
PSYC 317	PSY 317	N/A
PSYC 320	PSY 320	N/A
PSYC 321	PSY 321	N/A
PSYC 324	PSY 324	N/A
PSYC 325	PSY 325	N/A
PSYC 330	PSY 330	N/A
PSYC 340	PSY 340	N/A
PSYC 342	PSY 342	N/A
PSYC 350	PSY 350	N/A
PSYC 351	PSY 351	N/A
PSYC 359	PSY 359	N/A
PSYC 370	PSY 370	N/A
PSYC 375	PSY 375	N/A
PSYC 376	PSY 376	N/A
PSYC 380	PSY 380	N/A
PSYC 383	PSY 383	N/A
PSYC 385	PSY 385	N/A
PSYC 400	PSY 400	N/A
PSYC 401	PSY 401	N/A
PSYC 402	PSY 402	N/A
PSYC 417V	PSY 417V	N/A
PSYC 430	PSY 430	N/A
PSYC 440	PSY 440	N/A
PSYC 442	PSY 442	N/A
PSYC 445	PSY 445	N/A
PSYC 450	PSY 450	N/A
PSYC 470	PSY 470	N/A
PSYC 507	PSY 507	N/A
PSYC 508	PSY 508	N/A
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PSYC 509	PSY 509	N/A
PSYC 510	PSY 510	N/A
PSYC 520	PSY 520	N/A
PSYC 522	PSY 522	N/A
PSYC 523	PSY 523	N/A
PSYC 524	PSY 524	N/A
PSYC 525	PSY 525	N/A
PSYC 527	PSY 527	N/A
PSYC 529	PSY 529	N/A
PSYC 530	PSY 530	N/A
PSYC 531	PSY 531	N/A
PSYC 540	PSY 540	N/A
PSYC 543	PSY 543	N/A
PSYC 547	PSY 547	N/A
PSYC 548	PSY 548	N/A
PSYC 550	PSY 550	N/A
PSYC 570	PSY 570	N/A
PSYC 590	PSY 590	N/A
PSYC 598	PSY 598	N/A
PSYC 599	PSY 599	N/A
PSYC 600	PSY 600	N/A
PSYC 698	PSY 698	N/A
PSYC 700	PSY 700	N/A
RGSC-RANGE SCIENCE		
RGSC 1110	RGSC 150	Unique
RGSC 2110	RGSC 294	Common
RGSC 2996	RGSC 250	Unique
SIGN-SIGN LANGUAGE		
SIGN 1110	C D 374	Common
SIGN 1120	C D 375	Common
SIGN 2110	C D 476	Common
SIGN 574	C S 574	N/A
SOCI-SOCIOLOGY		
SOCI 1110G	SOC 101G	Common
SOCI 2220	SOC 273	Common
SOCI 2230	SOC 263	Common
SOCI 2230	SOC 269	Common
SOCI 2240	SOC 258	Common
SOCI 2261	SOC 262	Unique
SOCI 2310G	SOC 201G	Common
SOCI 330V	SOC 330V	N/A
SOCI 336V	SOC 336V	N/A
SOCI 350	SOC 350	N/A
SOCI 351	SOC 351	N/A
SOCI 352	SOC 352	N/A
SOCI 353	SOC 353	N/A
SOCI 357	SOC 357	N/A
SOCI 359	SOC 359	N/A
SOCI 360V	SOC 360V	N/A
SOCI 361V	SOC 361V	N/A
SOCI 362	SOC 362	N/A
SOCI 365	SOC 365	N/A
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SOCI 371	SOC 371	N/A
SOCI 374V	SOC 374	N/A
SOCI 375	SOC 375	N/A
SOCI 376V	SOC 376V	N/A
SOCI 390	SOC 390	N/A
SOCI 391	SOC 391	N/A
SOCI 392	SOC 392	N/A
SOCI 393	SOC 393	N/A
SOCI 394V	SOC 394V	N/A
SOCI 401	SOC 401	N/A
SOCI 409	SOC 409	N/A
SOCI 430	SOC 430	N/A
SOCI 448	SOC 448	N/A
SOCI 449	SOC 449	N/A
SOCI 458V	SOC 458V	N/A
SOCI 460	SOC 460	N/A
SOCI 464	SOC 464	N/A
SOCI 465V	SOC 465V	N/A
SOCI 470	SOC 470	N/A
SOCI 473	SOC 473	N/A
SOCI 474	SOC 474	N/A
SOCI 477	SOC 477	N/A
SOCI 480	SOC 480	N/A
SOCI 481	SOC 481	N/A
SOCI 482	SOC 482	N/A
SOCI 486	SOC 486	N/A
SOCI 489	SOC 489	N/A
SOCI 491	SOC 491	N/A
SOCI 496	SOC 496	N/A
SOCI 501	SOC 501	N/A
SOCI 509	SOC 509	N/A
SOCI 530	SOC 530	N/A
SOCI 548	SOC 548	N/A
SOCI 549	SOC 549	N/A
SOCI 551	SOC 551	N/A
SOCI 552	SOC 552	N/A
SOCI 553	SOC 553	N/A
SOCI 558	SOC 558	N/A
SOCI 559	SOC 559	N/A
SOCI 560	SOC 560	N/A
SOCI 561	SOC 561	N/A
SOCI 564	SOC 564	N/A
SOCI 565	SOC 565	N/A
SOCI 569	SOC 569	N/A
SOCI 570	SOC 570	N/A
SOCI 571	SOC 571	N/A
SOCI 572	SOC 572	N/A
SOCI 574	SOC 574	N/A
SOCI 575	SOC 575	N/A
SOCI 577	SOC 577	N/A
SOCI 578	SOC 578	N/A
SOCI 579	SOC 579	N/A
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0001 501	000 501	NIA
SOCI 581	SOC 581	N/A
SOCI 582	SOC 582	N/A
SOCI 583	SOC 583	N/A
SOCI 586	SOC 586	N/A
SOCI 587	SOC 587	N/A
SOCI 589	SOC 589	N/A
SOCI 596	SOC 596	N/A
SOCI 599	SOC 599	N/A
SOIL-SOIL		
SOIL 2110	SOIL 252	Common
SOIL 2110L	SOIL 252 L	Common
SOIL 2996	SOIL 200	Unique
SOWK-SOCIAL WORK		
SOWK 2110G	S WK 221G	Common
SOWK 2111	S WK 251	Unique
SOWK 300	S WK 300	N/A
SOWK 301	S WK 301	N/A
SOWK 309	S WK 309	N/A
SOWK 311	S WK 311	N/A
SOWK 312	S WK 312	N/A
SOWK 313	S WK 313	N/A
SOWK 315	S WK 315	N/A
SOWK 316	S WK 316	N/A
SOWK 331V	S WK 331V	N/A
SOWK 401	S WK 401	N/A
SOWK 403	S WK 403	N/A
SOWK 405	S WK 405	N/A
SOWK 412	S WK 412	N/A
SOWK 415	S WK 415	N/A
SOWK 416	S WK 416	N/A
SOWK 417	S WK 417	N/A
SOWK 418	S WK 418	N/A
SOWK 419	S WK 419	N/A
SOWK 443	S WK 443	N/A
SOWK 447	S WK 447	N/A
SOWK 449	S WK 449	N/A
SOWK 490	S WK 490	N/A
SOWK 497	S WK 497	N/A
SPAN-SPANISH		
SPAN 1110	SPAN 111	Common
SPAN 1120	SPAN 112	Common
SPAN 1210	SPAN 113	Common
SPAN 1220	SPAN 213	Common
SPAN 2110	SPAN 211	Common
SPAN 2120	SPAN 212	Common
SPAN 2210	SPAN 214	Common
SPED-SPECIAL EDUCATION		
SPED 2120	SPED 210	Unique
SPED 2130	SPED 202	Unique
SPED 2996	SPED 201	Unique
SPHS-SPEECH & HEARING SCIENCE		
SPHS 2110	C D 221	Common

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SPMD-SPORTS MEDICINE		
SPMD 1110	SP M 190	Unique
SPMD 1120	SP M 191	Unique
SPMD 1190	SP M 272	Unique
SPMD 1195	SP M 273	Unique
SPMD 1310	SP M 175	Unique
SPMD 1350	PE P 185	Unique
SPMD 2130	SP M 250	Unique
SPMD 2210	SP M 271	Unique
SPMD 2210L	SP M 271 L	Unique

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SPMD 2250	PE P 208	Unique
SPMD 2310	SP M 200	Unique
SPMD 3010	SP M 310	N/A
SPMD 3050	SP M 375	N/A
SPMD 3090	SP M 372	N/A
SPMD 3093	SP M 373	N/A
SPMD 3110	PE P 323	N/A
SPMD 3120	PE P 363	N/A
SPMD 3130	PE P 392	N/A
SPMD 3140	PE P 394	N/A
SPMD 3150	PE P 393	N/A
SPMD 3160	PE P 315	N/A
SPMD 3210	SP M 371	N/A
SPMD 3210L	SP M 371 L	N/A
SPMD 3250	SP M 324	N/A
SPMD 3310	PE P 319	N/A
SPMD 3350	SP M 412	N/A
SPMD 3410	SP M 308	N/A
SPMD 3450	SP M 305	N/A
SPMD 3450L	SP M 305 L	N/A
SPMD 3550	SP M 304	N/A
SPMD 3610	SP M 303	N/A
SPMD 3650	SP M 341	N/A
SPMD 3710	SP M 342	N/A
SPMD 4010	SP M 410	N/A
SPMD 4015	SP M 415	N/A
SPMD 4020	SP M 420	N/A
SPMD 4025	SP M 411	N/A
SPMD 4030	SP M 425	N/A
SPMD 4090	SP M 422	N/A
SPMD 4093	SP M 423	N/A
SPMD 4095	SP M 424	N/A
SPMD 4098	SP M 498	N/A
SPMD 4110	PE P 455	N/A
SPMD 4130	PE P 466	N/A
SPMD 4210	SP M 451	N/A
SPMD 4250	SP M 460	N/A
SPMD 4250L	SP M 460 L	N/A
SPMD 4350	SP M 330	N/A
SPMD 4410	SP M 456	N/A
SPMD 4450	SP M 307	N/A
SPMD 4510	SP M 309	N/A
SPMD 4550	SP M 223	N/A
SPMD 4610	PE P 465	N/A
SPMD 4997	SP M 499	N/A
SPMD 4998	SP M 445	N/A
SPMD 5010	SP M 510	N/A
SPMD 5015	SP M 513	N/A
SPMD 5020	SP M 514	N/A
SPMD 5025	SP M 511	N/A
SPMD 5030	SP M 515	N/A
SPMD 5310	SP M 512	N/A

SPMD 5350         SP M 560         N/A           SPMD 5450         SP M 556         N/A           SPMD 5450         SP M 556         N/A           SPMD 5510         SP M 555         N/A           SPMD 5510         PE P 624         N/A           SPMD 5350         SP M 551         N/A           SPMD 6410         SP M 668         N/A           SPMD 6450         SP M 665         N/A           SPMD 6510         SP M 660         N/A           SPMD 6701         SP M 597         N/A           SPMD 6750         SP M 600         N/A           SPMD 6750         SP M 600         N/A           SPMD 6700         SP M 700         N/A           THEA 1210G         THTR 101G         Common           THEA 2121         THTR 105         Common           THEA 1220         THTR 100         Unique           THEA 1310         THTR 130         Unique           THEA 3101         THTR 142         Common           THEA 2221         THTR 141         Unique           THEA 2310         THTR 141         Unique           THEA 2300         THTR 141         Unique           THEA 2300         THTR 300					
SPMID 5510         SP M 504         N/A           SPMID 5510         SP M 504         N/A           SPMID 5510         SP M 504         N/A           SPMID 5510         PC P 624         N/A           SPMID 6310         SP M 501         N/A           SPMID 6310         SP M 608         N/A           SPMID 6510         SP M 666         N/A           SPMID 6510         SP M 600         N/A           SPMID 6710         SP M 997         N/A           SPMID 6701         SP M 600         N/A           SPMID 6702         SP M 600         N/A           SPMID 6703         SP M 600         N/A           SPMID 6704         N/A         N/A           SPMID 6707         SP M 600         N/A           SPMID 7008         SP M 700         N/A           THEA 1210         N/A         N/A           THEA 1212         THTR 101G         Common           THEA 1212         THTR 110         Unique           THEA 1221         THTR 110         Unique           THEA 1310         THTR 142         Unique           THEA 2310         THTR 141         Unique           THEA 2310         THTR 141					
SPM D5510         SP M 545         N/A           SPMD 5550         SP M 545         N/A           SPMD 6510         PE P 624         N/A           SPMD 6510         SP M 551         N/A           SPMD 6510         SP M 699         N/A           SPMD 6410         SP M 690         N/A           SPMD 6510         SP M 690         N/A           SPMD 6710         SP M 597         N/A           SPMD 6710         SP M 597         N/A           SPMD 6700         SP M 690         N/A           SPMD 6700         SP M 700         N/A           SPMD 6700         SP M 700         N/A           SPMD 6700         SP M 700         N/A           SPMD 7000         SP M 700         N/A           SPMD 7000         SP M 700         N/A           SPMD 7000         THR 100         Common           THEA.1210         THR 101         Unique           THEA.1210         THR 101         Unique           THEA.1221         THR 110         Unique           THEA.2222         THR 142         Unique           THEA.2231         THR 141         Common           THEA.2231         THR 141         Unique	SPMD 5410	SP M 509	N/A		
SPM0 5550         SP M 545         N/A           SPM0 6310         PE P 624         N/A           SPM0 6310         SP M 651         N/A           SPM0 6450         SP M 656         N/A           SPM0 6450         SP M 656         N/A           SPM0 6510         SP M 660         N/A           SPM0 6750         SP M 600         N/A           SPM0 6750         SP M 600         N/A           SPM0 7000         SP M 700         N/A           SPM0 7000         SP M 700         N/A           SPM0 7000         SP M 700         N/A           THEA 1106         THR 1016         Common           THEA 1210         THR 1016         Common           THEA 1221         THR 110         Unique           THEA 1222         THR 120         Unique           THEA 1310         THR 141         Unique           THEA 1310         THR 142         Unique           THEA 222         THR 141         Unique           THEA 2310         THR 141         Unique           THEA 2310         THR 141         Unique           THEA 2421         THR 141         Unique           THEA 2320         THR 200         <					
SPMID 6310         PE P 624         N/A           SPMID 6350         SPM 551         N/A           SPMID 6350         SPM 606         N/A           SPMID 6310         SP M 605         N/A           SPMID 6310         SP M 600         N/A           SPMID 6710         SP M 597         N/A           SPMID 6750         SP M 600         N/A           SPMID 6750         SP M 700         N/A           SPMID 6750         SP M 600         N/A           THEA 1110         Common         Onique           THEA 1110         Unique         Onique           THEA 1221         THTR 141 <t< td=""><td>SPMD 5510</td><td>SP M 504</td><td>N/A</td></t<>	SPMD 5510	SP M 504	N/A		
SPMD 6350         SP M 551         N/A           SPMD 6410         SP M 668         N/A           SPMD 6450         SP M 669         N/A           SPMD 6510         SP M 660         N/A           SPMD 6710         SP M 997         N/A           SPMD 6750         SP M 900         N/A           SPMD 6996         PE P 501         N/A           SPMD 7000         SP M 700         N/A           SPMD 6996         PE P 501         N/A           THEAL 610         THTR 101         Unique           THEAL 210         THTR 110         Unique           THEA 122         THTR 120         Unique           THEA 2010         THTR 141         Unique           THEA 2210         THTR 141         Unique           THEA 2310         THTR 241         Uni	SPMD 5550	SP M 545	N/A		
SPM D6410         SP M 665         N/A           SPM 6450         SP M 665         N/A           SPM 6510         SP M 660         N/A           SPM 6710         SP M 597         N/A           SPMD 6796         SP M 500         N/A           SPMD 6796         PE P 501         N/A           SPMD 7000         S M 700         N/A           THEA 11106         Common           THEA 11106         THTR 101G         Common           THEA 1221         THTR 110         Unique           THEA 1222         THTR 120         Unique           THEA 1222         THTR 120         Unique           THEA 1310         THTR 142         Common           THEA 1310         THTR 142         Unique           THEA 1310         THTR 142         Unique           THEA 1310         THTR 141         Common           THEA 2310         THTR 141         Common           THEA 221         THTR 141         Common           THEA 2221         THTR 242         Unique           THEA 22310         THTR 245         Unique	SPMD 6310	PE P 624	N/A		
SPMD 6450         SP M 665         N/A           SPMD 6510         SP M 660         N/A           SPMD 6710         SP M 597         N/A           SPMD 6750         SP M 600         N/A           SPMD 6996         PE P 501         N/A           SPMD 7000         SP M 700         N/A           THEA 1200           THEA 1210         THIR 1016         Common           THEA 1221         THTR 110         Unique           THEA 1222         THTR 120         Unique           THEA 1223         THTR 130         Unique           THEA 1224         Common         Unique           THEA 1310         THTR 142         Common           THEA 1415         THTR 149         Unique           THEA 2210         THTR 141         Common           THEA 2210         THTR 141         Unique           THEA 2210         THTR 141         Unique           THEA 2210         THTR 142         Unique           THEA 2210         THTR 249         Unique           THEA 2220         THTR 220         Unique           THEA 2293         THTR 200         Unique           THEA 2303         THTR 300 <td< td=""><td>SPMD 6350</td><td>SP M 551</td><td>N/A</td></td<>	SPMD 6350	SP M 551	N/A		
SPMD 6510         SP M 660         N/A           SPMD 6710         SP M 597         N/A           SPMD 6750         SP M 600         N/A           SPMD 6996         PE P 501         N/A           SPMD 7000         SP M 700         N/A           THEA 1110G           THEA 1110G         THTR 101G         Common           THEA 1221         THTR 110         Unique           THEA 1221         THTR 110         Unique           THEA 1222         THTR 120         Unique           THEA 1221         THTR 120         Unique           THEA 1222         THTR 130         Unique           THEA 1223         THTR 142         Common           THEA 1220         Unique           THEA 1230         THTR 142         Common           THEA 1215         THTR 149         Unique           THEA 2210         THTR 141         Common           THEA 2210         THTR 124         Unique           THEA 2210         THTR 249         Unique           THEA 2210         THTR 249         Unique <th <="" colspan="2" td=""><td>SPMD 6410</td><td>SP M 608</td><td>N/A</td></th>	<td>SPMD 6410</td> <td>SP M 608</td> <td>N/A</td>		SPMD 6410	SP M 608	N/A
SPMD 6770         SP M 597         N/A           SPMD 696         SP M 500         N/A           SPMD 6996         EP 501         N/A           SPMD 7000         SP M 700         N/A           THEA THEATER           THEA 1110G         THTR 101G         Common           THEA 1210G         THTR 105         Common           THEA 1211         THTR 110         Unique           THEA 1222         THTR 120         Unique           THEA 1223         THTR 130         Unique           THEA 1310.         THTR 142         Common           THEA 1310.         THTR 142         Unique           THEA 2223         THTR 149         Unique           THEA 2310.         THTR 149         Unique           THEA 2310.         THTR 141         Ommon           THEA 2310.         THTR 141         Unique           THEA 2310.         THTR 250         Unique           THEA 2340         THTR 290         Unique           THEA 2421         THTR 292         Unique           THEA 2499         THTR 200         Unique           THEA 2993         THTR 300         N/A           THEA 300         THTR 303	SPMD 6450	SP M 665	N/A		
SPMD 6996         SP M 600         N/A           SPMD 7000         SP M 700         N/A           SPMD 7000         SP M 700         N/A           SPMD 7000         SP M 700         N/A           THEA 1110G         THTR 101G         Common           THEA 1210G         THTR 110         Unique           THEA 1221         THTR 110         Unique           THEA 1222         THTR 120         Unique           THEA 1310         THTR 142         Common           THEA 1310         THTR 142         Common           THEA 1310         THTR 149         Unique           THEA 2310         THTR 149         Unique           THEA 2221         THTR 140         Unique           THEA 2310         THTR 141 L         Unique           THEA 2310         THTR 141 L         Unique           THEA 2340         THTR 250         Unique           THEA 2310         THTR 20         Unique           THEA 2421         THTR 20         Unique           THEA 2993         THTR 300         N/A           THEA 300         THTR 300         N/A           THEA 300         THTR 300         N/A           THEA 301 <th< td=""><td>SPMD 6510</td><td>SP M 660</td><td>N/A</td></th<>	SPMD 6510	SP M 660	N/A		
SPMD 6996         PE P 501         N/A           SPMD 7000         SP M 700         N/A           SPMD 7000         SP M 700         N/A           THEA THEATRE         THEA 1110G         Common           THEA 1210G         THTR 101         Unique           THEA 1221         THTR 110         Unique           THEA 1222         THTR 120         Unique           THEA 1223         THTR 140         Onmon           THEA 1310.         THTR 142         Ommon           THEA 1310.         THTR 149         Unique           THEA 221         THTR 149         Unique           THEA 2310.         THTR 141         Common           THEA 2310.         THTR 141         Unique           THEA 2310.         THTR 141         Unique           THEA 2310.         THTR 142         Unique           THEA 2310.         THTR 141         Unique           THEA 2310.         THTR 142         Unique           THEA 2310.         THTR 249         Unique           THEA 221.         THTR 200         Unique           THEA 222.         Unique         THEA 241           THEA 300         THTR 300         N/A           THEA 300	SPMD 6710	SP M 597	N/A		
SPMD 7000         SPM 700         N/A           THEA THEATHEATRE         THEA 1010G         Common           THEA 1210G         THTR 105         Common           THEA 1221         THTR 110         Unique           THEA 1222         THTR 120         Unique           THEA 1223         THTR 130         Unique           THEA 12310         THTR 142         Unique           THEA 1415         THTR 149         Unique           THEA 2211         THTR 120         Unique           THEA 2310         THTR 141         Common           THEA 2310         THTR 141         Unique           THEA 2310         THTR 141         Unique           THEA 2310         THTR 210         Unique           THEA 2310         THTR 249         Unique           THEA 241         THTR 220         Unique           THEA 2421         THTR 200         Unique           THEA 293         THTR 300         N/A           THEA 293         THTR 300         N/A           THEA 300         THTR 300         N/A           THEA 300         THTR 300         N/A           THEA 304         THTR 305         N/A           THEA 305	SPMD 6750	SP M 600	N/A		
THEA THEATRE           THEA 11006         THTR 1016         Common           THEA 12106         THTR 105         Common           THEA 1221         THTR 110         Unique           THEA 1222         THTR 120         Unique           THEA 1233         THTR 130         Unique           THEA 1310         THTR 142         Common           THEA 1310.         THTR 149         Unique           THEA 2221         THTR 149         Unique           THEA 2310         THTR 141         Common           THEA 2310.         THTR 141         Common           THEA 2310.         THTR 141         Common           THEA 2340         THTR 141         Common           THEA 2340         THTR 141         Common           THEA 2421         THTR 250         Unique           THEA 2421         THTR 250         Unique           THEA 2993         THTR 200         Unique           THEA 2996         THTR 200         Unique           THEA 303         THTR 303         N/A           THEA 304         THTR 304         N/A           THEA 305         THTR 307         N/A           THEA 306         THTR 308         N/A	SPMD 6996	PE P 501	N/A		
THEA 1110G         THTR 105         Common           THEA 1210G         THTR 105         Common           THEA 1221         THTR 110         Unique           THEA 1222         THTR 120         Unique           THEA 1223         THTR 130         Unique           THEA 1310         THTR 142         Common           THEA 1310.         THTR 142         Unique           THEA 1415         THTR 149         Unique           THEA 2221         THTR 141         Common           THEA 22310         THTR 141         Common           THEA 22310         THTR 141         Common           THEA 2330.         THTR 141         Common           THEA 2421         THTR 250         Unique           THEA 249         Unique         Unique           THEA 249         Unique         Unique           THEA 2993         THTR 200         Unique           THEA 2993         THTR 200         Unique           THEA 2303         THTR 303         N/A           THEA 303         THTR 303         N/A           THEA 304         THTR 303         N/A           THEA 305         THTR 307V         N/A           THEA 310	SPMD 7000	SP M 700	N/A		
THEA 1210G         THTR 105         Common           THEA 1221         THTR 110         Unique           THEA 1222         THTR 120         Unique           THEA 1223         THTR 130         Unique           THEA 1310         THTR 142         Common           THEA 1310.         THTR 142         Unique           THEA 1415         THTR 149         Unique           THEA 2211         THTR 210         Unique           THEA 2221         THTR 210         Unique           THEA 2310.         THTR 141         Common           THEA 2310.         THTR 141         Unique           THEA 2340         THTR 250         Unique           THEA 2415         THTR 250         Unique           THEA 2421         THTR 220         Unique           THEA 2993         THTR 200         Unique           THEA 2996         THTR 200         N/A           THEA 303         THTR 300         N/A           THEA 304         THTR 305         N/A           THEA 305         THTR 307         N/A           THEA 307V         THTR 307         N/A           THEA 311         THTR 311         N/A           THEA 312 <td< td=""><td>THEA-THEATRE</td><td></td><td></td></td<>	THEA-THEATRE				
THEA 1221         THTR 120         Unique           THEA 1222         THTR 120         Unique           THEA 1223         THTR 130         Unique           THEA 1310         THTR 142         Common           THEA 1310L         THTR 142 L         Unique           THEA 1415         THTR 149         Unique           THEA 221         THTR 210         Unique           THEA 2310L         THTR 141 L         Common           THEA 2310L         THTR 250         Unique           THEA 2421         THTR 250         Unique           THEA 2422         THTR 250         Unique           THEA 2421         THTR 290         Unique           THEA 2933         THTR 200         Unique           THEA 300         THTR 300         N/A           THEA 300         THTR 300         N/A           THEA 303         THTR 304         N/A           THEA 305         THTR 305         N/A           THEA 307V         THTR 307V         N/A           THEA 310         THTR 310         N/A           THEA 311         THTR 311         N/A           THEA 312         THTR 313         N/A           THEA 313         THTR	THEA 1110G	THTR 101G	Common		
THEA 1222         THTR 120         Unique           THEA 1223         THTR 130         Unique           THEA 1310         THTR 142         Common           THEA 1310         THTR 142 L         Unique           THEA 1415         THTR 149         Unique           THEA 2221         THTR 210         Unique           THEA 2310         THTR 141 L         Unique           THEA 2310L         THTR 141 L         Unique           THEA 2340         THTR 250         Unique           THEA 2415         THTR 290         Unique           THEA 2415         THTR 220         Unique           THEA 2993         THTR 200         Unique           THEA 2996         THTR 200         Unique           THEA 303         THTR 303         N/A           THEA 304         THTR 303         N/A           THEA 305         THTR 305         N/A           THEA 306         THTR 307         N/A           THEA 307         THTR 308         N/A           THEA 310         THTR 310         N/A           THEA 311         THTR 311         N/A           THEA 313         THTR 314         N/A           THEA 314         THTR 3	THEA 1210G	THTR 105	Common		
THEA 1222         THTR 120         Unique           THEA 1223         THTR 130         Unique           THEA 1310         THTR 142         Common           THEA 1310L         THTR 142 L         Unique           THEA 1415         THTR 149         Unique           THEA 2221         THTR 210         Unique           THEA 22310         THTR 141 L         Common           THEA 2310L         THTR 141 L         Unique           THEA 2340         THTR 250         Unique           THEA 2421         THTR 249         Unique           THEA 2422         Unique         Unique           THEA 2993         THTR 200         Unique           THEA 2993         THTR 200         Unique           THEA 300         THTR 300         N/A           THEA 303         THTR 300         N/A           THEA 304         THTR 303         N/A           THEA 305         THTR 304         N/A           THEA 307V         THTR 305         N/A           THEA 310         THTR 310         N/A           THEA 311         THTR 311         N/A           THEA 312         THTR 312         N/A           THEA 313         THTR	THEA 1221	THTR 110	Unique		
THEA 1223         THTR 130         Unique           THEA 1310         THTR 142 L         Unique           THEA 1415         THTR 149         Unique           THEA 2221         THTR 149         Unique           THEA 22310         THTR 141         Common           THEA 2310 L         THTR 141 L         Unique           THEA 2340         THTR 250         Unique           THEA 2415         THTR 249         Unique           THEA 2421         THTR 220         Unique           THEA 2993         THTR 200         Unique           THEA 300         THTR 300         N/A           THEA 300         THTR 300         N/A           THEA 303         THTR 303         N/A           THEA 305         THTR 304         N/A           THEA 306         THTR 307V         N/A           THEA 307         THTR 307V         N/A           THEA 310         THTR 310         N/A           THEA 311         THTR 312         N/A           THEA 313         THTR 314         N/A           THEA 314         THTR 315         N/A           THEA 315         THTR 316         N/A           THEA 316         THTR 317	THEA 1222	THTR 120			
THEA 1310         THTR 142         Common           THEA 1310L         THTR 142 L         Unique           THEA 1415         THTR 149         Unique           THEA 221         THTR 210         Unique           THEA 2310L         THTR 141         Common           THEA 2310L         THTR 141 L         Unique           THEA 2340         THTR 250         Unique           THEA 2415         THTR 249         Unique           THEA 2421         THTR 220         Unique           THEA 2993         THTR 200         Unique           THEA 303         THTR 300         N/A           THEA 308         THTR 300         N/A           THEA 303         THTR 303         N/A           THEA 304         THTR 305         N/A           THEA 305         THTR 305         N/A           THEA 308         THTR 305         N/A           THEA 308         THTR 307         N/A           THEA 308         THTR 301         N/A           THEA 311         THTR 311         N/A           THEA 312         THTR 312         N/A           THEA 313         THTR 314         N/A           THEA 314         THTR 314	THEA 1223	THTR 130	Unique		
THEA 1415         THTR 149         Unique           THEA 2221         THTR 210         Unique           THEA 2310         THTR 141         Common           THEA 2310L         THTR 141 L         Unique           THEA 2340         THTR 250         Unique           THEA 2415         THTR 249         Unique           THEA 2421         THTR 200         Unique           THEA 2993         THTR 200         Unique           THEA 300         THTR 300         N/A           THEA 303         THTR 300         N/A           THEA 303         THTR 303         N/A           THEA 304         THTR 304         N/A           THEA 305         THTR 305         N/A           THEA 307V         THTR 307V         N/A           THEA 308         THTR 307V         N/A           THEA 308         THTR 310         N/A           THEA 311         THTR 311         N/A           THEA 312         THTR 311         N/A           THEA 313         THTR 314         N/A           THEA 314         THTR 315         N/A           THEA 317         THTR 317         N/A           THEA 320         THTR 321         N	THEA 1310	THTR 142			
THEA 1415         THTR 149         Unique           THEA 2221         THTR 10         Unique           THEA 2310         THTR 141         Common           THEA 2310L         THTR 141 L         Unique           THEA 2340         THTR 250         Unique           THEA 2415         THTR 249         Unique           THEA 2421         THTR 200         Unique           THEA 2993         THTR 200         Unique           THEA 300         THTR 300         N/A           THEA 303         THTR 303         N/A           THEA 303         THTR 303         N/A           THEA 304         THTR 304         N/A           THEA 305         THTR 305         N/A           THEA 307V         THTR 307V         N/A           THEA 308         THTR 307V         N/A           THEA 310         THTR 310         N/A           THEA 311         THTR 311         N/A           THEA 312         THTR 313         N/A           THEA 313         THTR 314         N/A           THEA 314         THTR 315         N/A           THEA 317         THTR 317         N/A           THEA 320         THTR 321V         N	THEA 1310L	THTR 142 L	Unique		
THEA 2221         THTR 210         Unique           THEA 2310         THTR 141         Common           THEA 2310L         THTR 141 L         Unique           THEA 2340         THTR 250         Unique           THEA 2415         THTR 249         Unique           THEA 2993         THTR 200         Unique           THEA 2993         THTR 200         Unique           THEA 3093         THTR 300         N/A           THEA 300         THTR 300         N/A           THEA 303         THTR 303         N/A           THEA 304         THTR 304         N/A           THEA 305         THTR 305         N/A           THEA 306         THTR 307V         N/A           THEA 307V         THTR 307V         N/A           THEA 310         THTR 310         N/A           THEA 311         THTR 311         N/A           THEA 312         THTR 313         N/A           THEA 313         THTR 313         N/A           THEA 314         THTR 315         N/A           THEA 315         THTR 316         N/A           THEA 316         THTR 317         N/A           THEA 317         THTR 320         N/A<	THEA 1415	THTR 149			
THEA 2310         THTR 141 L         Common           THEA 2310L         THTR 141 L         Unique           THEA 2340         THTR 250         Unique           THEA 2415         THTR 249         Unique           THEA 2421         THTR 220         Unique           THEA 2993         THTR 200         Unique           THEA 2996         THTR 302         N/A           THEA 303         THTR 303         N/A           THEA 304         THTR 303         N/A           THEA 305         THTR 305         N/A           THEA 307V         THTR 307V         N/A           THEA 310         THTR 308         N/A           THEA 311         THTR 311         N/A           THEA 312         THTR 312         N/A           THEA 313         THTR 312         N/A           THEA 314         THTR 313         N/A           THEA 315         THTR 314         N/A           THEA 317         THTR 317         N/A           THEA 318         THTR 317         N/A           THEA 320         THTR 320         N/A           THEA 321V         THTR 322         N/A           THEA 323         THTR 329         N/A <td>THEA 2221</td> <td>THTR 210</td> <td></td>	THEA 2221	THTR 210			
THEA 2310L         THTR 141 L         Unique           THEA 2340         THTR 250         Unique           THEA 2415         THTR 249         Unique           THEA 2421         THTR 220         Unique           THEA 2993         THTR 200         Unique           THEA 2996         THTR 222         Unique           THEA 300         THTR 300         N/A           THEA 303         THTR 303         N/A           THEA 304         N/A         N/A           THEA 305         THTR 304         N/A           THEA 307V         THTR 307V         N/A           THEA 308         THTR 308         N/A           THEA 310         THTR 310         N/A           THEA 311         THTR 311         N/A           THEA 312         THTR 312         N/A           THEA 313         THTR 313         N/A           THEA 314         THTR 315         N/A           THEA 315         THTR 315         N/A           THEA 317         THTR 317         N/A           THEA 320         THTR 320         N/A           THEA 321V         THTR 322         N/A           THEA 322         THTR 323         N/A     <	THEA 2310	THTR 141			
THEA 2415         THTR 249         Unique           THEA 2421         THTR 200         Unique           THEA 2993         THTR 200         Unique           THEA 2996         THTR 222         Unique           THEA 300         THTR 300         N/A           THEA 303         THTR 303         N/A           THEA 304         THTR 304         N/A           THEA 305         THTR 305         N/A           THEA 307V         THTR 307V         N/A           THEA 308         THTR 308         N/A           THEA 310         THTR 310         N/A           THEA 311         THTR 311         N/A           THEA 312         THTR 312         N/A           THEA 313         THTR 313         N/A           THEA 314         THTR 314         N/A           THEA 315         THTR 315         N/A           THEA 316         THTR 317         N/A           THEA 320         THTR 320         N/A           THEA 321         THTR 321V         N/A           THEA 322         THTR 323         N/A           THEA 329         THTR 320         N/A           THEA 320         THTR 320         N/A	THEA 2310L	THTR 141 L	Unique		
THEA 2415         THTR 249         Unique           THEA 2421         THTR 200         Unique           THEA 2993         THTR 200         Unique           THEA 2996         THTR 222         Unique           THEA 300         THTR 300         N/A           THEA 303         THTR 303         N/A           THEA 304         THTR 304         N/A           THEA 305         THTR 305         N/A           THEA 307V         THTR 307V         N/A           THEA 308         THTR 308         N/A           THEA 310         THTR 310         N/A           THEA 311         THTR 311         N/A           THEA 312         THTR 312         N/A           THEA 313         THTR 313         N/A           THEA 314         THTR 314         N/A           THEA 315         THTR 315         N/A           THEA 316         THTR 317         N/A           THEA 320         THTR 320         N/A           THEA 321         THTR 321V         N/A           THEA 322         THTR 323         N/A           THEA 329         THTR 320         N/A           THEA 320         THTR 320         N/A	THEA 2340	THTR 250	Unique		
THEA 2993         THTR 200         Unique           THEA 2996         THTR 222         Unique           THEA 300         THTR 300         N/A           THEA 303         THTR 303         N/A           THEA 304         THTR 304         N/A           THEA 305         N/A         N/A           THEA 307V         THTR 307V         N/A           THEA 308         THTR 308         N/A           THEA 310         THTR 310         N/A           THEA 311         THTR 311         N/A           THEA 312         THTR 312         N/A           THEA 313         THTR 313         N/A           THEA 314         THTR 314         N/A           THEA 315         THTR 315         N/A           THEA 317         THTR 317         N/A           THEA 320         THTR 320         N/A           THEA 321V         THTR 320         N/A           THEA 322         THTR 322         N/A           THEA 329         THTR 329         N/A           THEA 330         THTR 330         N/A           THEA 334         THTR 330         N/A	THEA 2415	THTR 249			
THEA 2996         THTR 222         Unique           THEA 300         THTR 300         N/A           THEA 303         THTR 303         N/A           THEA 304         THTR 304         N/A           THEA 305         THTR 305         N/A           THEA 307V         THTR 307V         N/A           THEA 308         THTR 308         N/A           THEA 310         THTR 310         N/A           THEA 311         THTR 311         N/A           THEA 312         THTR 312         N/A           THEA 313         THTR 313         N/A           THEA 314         THTR 314         N/A           THEA 315         THTR 315         N/A           THEA 317         THTR 317         N/A           THEA 320         THTR 321V         N/A           THEA 321V         THTR 321V         N/A           THEA 322         THTR 323         N/A           THEA 323         N/A           THEA 329         THTR 320         N/A           THEA 330         THTR 330         N/A           THEA 334         THTR 334         N/A	THEA 2421	THTR 220	Unique		
THEA 300       THTR 300       N/A         THEA 303       THTR 303       N/A         THEA 304       THTR 304       N/A         THEA 305       THTR 305       N/A         THEA 307V       THTR 307V       N/A         THEA 308       THTR 308       N/A         THEA 310       THTR 310       N/A         THEA 311       THTR 311       N/A         THEA 312       THTR 312       N/A         THEA 313       THTR 313       N/A         THEA 314       THTR 314       N/A         THEA 315       THTR 315       N/A         THEA 317       THTR 317       N/A         THEA 320       THTR 320       N/A         THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 2993	THTR 200	Unique		
THEA 303       THTR 303       N/A         THEA 304       THTR 304       N/A         THEA 305       THTR 305       N/A         THEA 307V       THTR 307V       N/A         THEA 308       THTR 308       N/A         THEA 310       THTR 310       N/A         THEA 311       THTR 311       N/A         THEA 312       THTR 312       N/A         THEA 313       THTR 313       N/A         THEA 314       THTR 314       N/A         THEA 315       THTR 315       N/A         THEA 317       THTR 317       N/A         THEA 320       THTR 320       N/A         THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 2996	THTR 222	Unique		
THEA 304       THTR 305       N/A         THEA 305       THTR 305       N/A         THEA 307V       THTR 307V       N/A         THEA 308       THTR 308       N/A         THEA 310       THTR 310       N/A         THEA 311       THTR 311       N/A         THEA 312       THTR 312       N/A         THEA 313       THTR 313       N/A         THEA 314       THTR 314       N/A         THEA 315       THTR 315       N/A         THEA 317       THTR 317       N/A         THEA 320       THTR 320       N/A         THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 300	THTR 300	N/A		
THEA 305       THTR 305       N/A         THEA 307V       THTR 307V       N/A         THEA 308       THTR 308       N/A         THEA 310       THTR 310       N/A         THEA 311       THTR 311       N/A         THEA 312       THTR 312       N/A         THEA 313       THTR 313       N/A         THEA 314       THTR 314       N/A         THEA 315       THTR 315       N/A         THEA 317       THTR 317       N/A         THEA 320       THTR 320       N/A         THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 320       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 303	THTR 303	N/A		
THEA 307V       THTR 307V       N/A         THEA 308       THTR 308       N/A         THEA 310       THTR 310       N/A         THEA 311       THTR 311       N/A         THEA 312       THTR 312       N/A         THEA 313       THTR 313       N/A         THEA 314       THTR 314       N/A         THEA 315       THTR 315       N/A         THEA 317       THTR 317       N/A         THEA 320       THTR 320       N/A         THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 334       THTR 334       N/A	THEA 304	THTR 304	N/A		
THEA 308       THTR 308       N/A         THEA 310       THTR 310       N/A         THEA 311       THTR 311       N/A         THEA 312       THTR 312       N/A         THEA 313       THTR 313       N/A         THEA 314       THTR 314       N/A         THEA 315       THTR 315       N/A         THEA 317       THTR 317       N/A         THEA 320       THTR 320       N/A         THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 305	THTR 305	N/A		
THEA 310       THTR 310       N/A         THEA 311       THTR 311       N/A         THEA 312       THTR 312       N/A         THEA 313       THTR 313       N/A         THEA 314       THTR 314       N/A         THEA 315       THTR 315       N/A         THEA 317       THTR 317       N/A         THEA 320       THTR 320       N/A         THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 307V	THTR 307V	N/A		
THEA 311       THTR 311       N/A         THEA 312       THTR 312       N/A         THEA 313       THTR 313       N/A         THEA 314       THTR 314       N/A         THEA 315       THTR 315       N/A         THEA 317       THTR 317       N/A         THEA 320       THTR 320       N/A         THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 308	THTR 308	N/A		
THEA 312       THTR 312       N/A         THEA 313       THTR 313       N/A         THEA 314       THTR 314       N/A         THEA 315       THTR 315       N/A         THEA 317       THTR 317       N/A         THEA 320       THTR 320       N/A         THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 310	THTR 310	N/A		
THEA 313       THTR 313       N/A         THEA 314       THTR 314       N/A         THEA 315       THTR 315       N/A         THEA 317       THTR 317       N/A         THEA 320       THTR 320       N/A         THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 311	THTR 311	N/A		
THEA 314       THTR 314       N/A         THEA 315       THTR 315       N/A         THEA 317       THTR 317       N/A         THEA 320       THTR 320       N/A         THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 312	THTR 312	N/A		
THEA 315       THTR 315       N/A         THEA 317       THTR 317       N/A         THEA 320       THTR 320       N/A         THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 313	THTR 313	N/A		
THEA 317       THTR 317       N/A         THEA 320       THTR 320       N/A         THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 314	THTR 314	N/A		
THEA 320       THTR 320       N/A         THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 315	THTR 315	N/A		
THEA 321V       THTR 321V       N/A         THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 317	THTR 317	N/A		
THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A	THEA 320	THTR 320	N/A		
THEA 322       THTR 322       N/A         THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A					
THEA 323       THTR 323       N/A         THEA 329       THTR 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A					
THEA 329       N/A         THEA 330       THTR 330       N/A         THEA 334       THTR 334       N/A					
THEA 330         THTR 330         N/A           THEA 334         THTR 334         N/A					
THEA 334 THTR 334 N/A					

THEA 341	THTR 341	N/A
THEA 343	THTR 343	N/A
THEA 345	THTR 345	N/A
THEA 346	THTR 346	N/A
THEA 347	THTR 347	N/A
THEA 348	THTR 348	N/A
THEA 349	THTR 349	N/A
THEA 352	THTR 352	N/A
THEA 353	THTR 353	N/A
THEA 354	THTR 354	N/A
THEA 355	THTR 355	N/A
THEA 356	THTR 356	N/A
THEA 357	THTR 357	N/A
THEA 360	THTR 360	N/A
THEA 366	THTR 366	N/A
THEA 384	THTR 395	N/A
THEA 395	THTR 395	N/A
THEA 396	THTR 396	N/A
THEA 408	THTR 408	N/A
THEA 409	THTR 409	N/A
THEA 410	THTR 410	N/A
THEA 414	THTR 414	N/A
THEA 417	THTR 417	N/A
THEA 430	THTR 430	N/A
THEA 435	THTR 435	N/A
THEA 439	THTR 439	N/A
THEA 440	THTR 440	N/A
THEA 450	THTR 450	N/A
THEA 457	THTR 457	N/A
THEA 535	THTR 535	N/A

# Associate Degree and Certificate Programs

# Programs offered at New Mexico State University - Carlsbad

Program are titled in the following styles:

- Computer and Information Technology (IT Specialist) Associate of Applied Science
  - Major Title (Computer and Information Technology), will appear on diplomas and transcripts
  - Concentration Title (IT Specialist), will appear on diplomas and transcripts
  - Degree Title (Associate of Applied Science), will appear on diplomas and transcripts
- Business Office Technology Associate of Applied Science\*
  - Major Title (Business Office Technology), will appear on diplomas and transcripts
  - Degree Title (Associate of Applied Science), will appear on diplomas and transcripts

\*Note: that some degrees will have emphasis, options, pathways, etc. appear on the degree page, but these items will not appear on transcripts.

#### Α

- Accounting Certificate (p. 95)
- · Agriculture Associate of Applied Science (p. 96)
- · Associate of Arts Degree (p. 98)
- · Associate of Science Degree (p. 185)
- Auto Body Collision Repair Associate of Applied Science (p. 102)
- Automotive Refinishing Certificate (p. 103)
- · Automotive Technology Associate of Applied Science (p. 107)
- Automotive Technology Certificate (p. 107)

#### B

- Banking Certificate (p. 95)
- Building Technology Associate of Applied Science (p. 110)
- Building Trades Certificate (p. 111)
- Business Management Associate of Applied Science (p. 113)
- Business Office Technology (Accounting) Associate of Applied Science (p. 117)
- Business Office Technology (Administrative Assistant) Associate of Applied Science (p. 117)
- · Business Office Technology Certificate (p. 118)

#### C

- Computer and Information Technology (IT Specialist) Associate of Applied Science (p. 122)
- Computer and Information Technology (Networking) Associate of Applied Science (p. 123)
- Computer and Information Technology (Programming) Associate of Applied Science (p. 124)
- · Criminal Justice Associate in Criminal Justice (p. 126)

#### D

- Digital Animation Certificate (p. 132)
- Digital Graphics Certificate (p. 133)
- <u>Digital Media Technology (Digital Animation)</u> Associate of Applied <u>Science</u> (p. 134)
- <u>Digital Media Technology (Digital Graphics)</u> <u>Associate of Applied Science</u> (p. 135)
- Digital Media Technology (Digital Video) Associate of Applied Science (p. 136)
- · Digital Video Certificate (p. 133)
- <u>Digital Video Game Animation Certificate</u> (p. 133)
- <u>Drafting and Graphics Technology (Architectural Technology) Associate of Applied Science</u> (p. 142)
- Drafting and Graphics Technology (General Drafting) Associate of Applied Science (p. 143)
- · Drafting and Graphics Technology Certificate (p. 141)

#### Ε

- Early Childhood Education Associate Degree (p. 146)
- Early Childhood Education Certificate (p. 147)
- Education Associate Degree (p. 148)
- Emergency Medical Technician Basic Certificate (p. 153)
- Emergency Medical Technician Intermediate Certificate (p. 153)
- Emergency Medical Technician Paramedic Associate of Applied Science (p. 154)
- Emergency Medical Technician Paramedic Certificate (p. 155)
- Engineering Associate of Science (p. 157)

#### G

- General Studies Associate Degree (p. 99)
- Geographical Information Systems Certificate (p. 158)

#### Н

- Health Information Technology Associate of Applied Science (p. 159)
- Health Information Technology Certificate (p. 160)
- Heritage Interpretation Associate of Arts (p. 161)
- Heritage Interpretation Certificate (p. 162)
- Hospitality and Tourism (Food & Beverage) Associate of Applied Science (p. 165)
- Hospitality and Tourism (Lodging & Tourism) Associate of Applied Science (p. 164)

#### ı

- Industrial Maintenance Technician (Electrical) Associate of Applied Science (p. 168)
- Industrial Maintenance Technician (Mechanical) Associate of Applied Science (p. 169)
- Industrial Maintenance Technology (Mechanical) Certificate (p. 168)
- Industrial Maintenance Techology (Electrical) Certificate (p. 167)

#### L

· Licensed Practical Nursing - Certificate (p. 179)

#### M

- Manufacturing Technology (Electronics Assembly) Associate of Applied Science (p. 173)
- Manufacturing Technology (Manufacturing Processes) Associate of Applied Science (p. 174)
- Microcomputer Applications Certificate (p. 125)

#### N

- Natural Gas Compression Technology Certificate (p. 174)
- · Non-Structural Collision Repair Certificate (p. 103)
- · Nursing Applied Associate Degree (p. 180)

#### P

- Paralegal Studies Certificate (p. 182)
- Phlebotomist Technician Certificate of Achievement (p. 183)
- Pre-Business Associate in Pre-Business (p. 183)

### S

- · Social Work Associate Degree (p. 188)
- Structural Collision Repair Certificate (p. 104)
- Surgical Technology Associate of Applied Science (p. 191)

#### W

- Welding Technology Associate of Applied Science (p. 193)
- Welding Technology Certificate (p. 194)

### **Accounting and Banking**

The **Certificate in Accounting** prepares students for work within the managerial field of accounting. In addition to accounting principles, practices, and software, the curriculum focuses on business law, management, and operation of the microcomputer and common computer applications.

The **Certificate in Banking** prepares students for work in the banking industry. The curriculum focuses on accounting, banking principles, business law, communications, management, marketing, spreadsheets, and operation of the microcomputer and common computer applications.

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into collegelevel math and reading courses or completion of developmental courses with a C or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Accounting - Certificate (p. 95)

Banking - Certificate (p. 95)

### ACCT 101. Supplemental Instruction to ACCT 221 1 Credit (1)

Collaborative workshop for students in ACCT 221 – Financial Accounting. Course does not count toward departmental degree requirements. May be repeated up to 2 credits. Restricted to Las Cruces campus only. **Corequisite(s):** ACCT 221.

#### ACCT 200. A Survey of Accounting

#### 3 Credits (3)

Emphasis on financial statement interpretation and development of accounting information for management. For engineering, computer science, and other non business majors. Community Colleges only. **Prerequisite:** one C S course or consent of instructor.

#### **ACCT 2110. Principles of Accounting I**

#### 3 Credits (3)

An introduction to financial accounting concepts emphasizing the analysis of business transactions in accordance with generally accepted accounting principles (GAAP), the effect of these transactions on the financial statements, financial analysis, and the interrelationships of the financial statements.

### ACCT 2120. Principles of Accounting II 3 Credits (3)

An introduction to the use of accounting information in the management decision making processes of planning, implementing, and controlling business activities. In addition, the course will discuss the accumulation and classification of costs as well as demonstrate the difference between costing systems.

Prerequisite(s): ACCT 2110.

### **Accounting - Certificate**

Prefix	Title	Credits
Core Curriculum Requ	irements	
ACCT 200	A Survey of Accounting	3
ACCT 2110	Principles of Accounting I	3
ACCT 2120	Principles of Accounting II	3
BUSA 1110	Intro to Business	3
BLAW 2110	Business Law I	3
BMGT 150	Income Taxation	3
MGMT 2110	Principles of Management	3
OECS 200	Accounting on Microcomputers	3
OECS 211	Word Processing Applications	3
OECS 215	Spreadsheet Applications	3
OECS 220	Database Application and Design	3
Total Credits		33

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
ACCT 200	A Survey of Accounting	3

BUSA 1110	Intro to Business	3
OECS 211	Word Processing Applications	3
	Credits	9
Spring		
MGMT 2110	Principles of Management	3
BLAW 2110	Business Law I	3
OECS 215	Spreadsheet Applications	3
	Credits	9
Second Year		
Fall		
ACCT 2110	Principles of Accounting I	3
OECS 220	Database Application and Design	3
	Credits	6
Spring		
ACCT 2120	Principles of Accounting II	3
OECS 200	Accounting on Microcomputers	3
BMGT 150	Income Taxation	3
	Credits	9
	Total Credits	33

### **Banking - Certificate**

Prefix	Title	Credits
Core Curriculum R	equirements	
BCIS 1110	Introduction to Information Systems	3
ACCT 2110	Principles of Accounting I	3
ACCT 2120	Principles of Accounting II	3
BLAW 2110	Business Law I	3
BMGT 112	Banks and Your Money	3
BMGT 225	Introduction to Commercial Lending (or Approved BMGT Elective)	3
ECON 2110G	Macroeconomic Principles	3
ENGL 2210G	Professional & Technical Communication	3
MGMT 2110	Principles of Management	3
OECS 215	Spreadsheet Applications	3
Approved BMGT E	lective	3
Total Credits		33

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
ACCT 2110	Principles of Accounting I	3
BCIS 1110	Introduction to Information Systems	3
BMGT 112	Banks and Your Money	3
	Credits	9
Spring		
ACCT 2120	Principles of Accounting II	3
Approved BMGT Election	ve	3
BLAW 2110	Business Law I	3
	Credits	9

Second Year		
Fall		
OECS 215	Spreadsheet Applications	3
BMGT 225	Introduction to Commercial Lending (or Approved BMGT Elective)	3
ENGL 2210G	Professional & Technical Communication	3
	Credits	9
Spring		
ECON 2110G	Macroeconomic Principles	3
MGMT 2110	Principles of Management	3
	Credits	6
	Total Credits	33

### **Agriculture**

The Associate of Applied Science in Agriculture focuses on the general principles and practice of agricultural research and production and prepares individuals to apply this knowledge to the solution of practical agricultural problems. The curriculum includes instruction in basic animal, plant, and soil science as well as agricultural business.

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Agriculture - Associate of Applied Science (p. 96)

# AEEC 1110. Introduction to Agricultural Economics and Business 3 Credits (3)

Orientation to agricultural economics and business through the discovery process for the consumer in the food, fiber and natural resource sectors of the global economy. The course will discuss the application of microand macro-economic principles as they relate to agricultural economics and business. May be repeated up to 3 credits.

### AEEC 1120. Careers in Food and Agribusiness 1 Credit (1)

Orientation to agribusiness management. Students will learn about agricultural production and marketing in New Mexico, the United States, and the world. Students will be introduced to faculty and staff within the department, learn about career opportunities available to AEAB graduates, and develop a greater appreciation of agricultural management issues. May be repeated up to 1 credits. Restricted to Las Cruces campus only.

Prerequisite(s): Freshman status only or obtain consent of instructor.

### AEEC 2110. Principles of Food and Agribusiness Management 3 Credits (3)

Description and application of management and financial principles, market planning, and organization theory in small business situations. May be repeated up to 3 credits.

# AEEC 2120. Introduction to Food and Agribusiness Accounting 3 Credits (3)

Purpose and methods of keeping and analyzing farm and ranch records. Net worth and income statements, efficiency measures, analysis of the business, and tax computations. May be repeated up to 3 credits.

### AEEC 2130G. Survey of Food and Agricultural Issues 3 Credits (3)

Survey of food and agricultural issues, including: geography of food production and consumption; human-agricultural-natural resource relations; agriculture in the United States and abroad; modern agribusiness; food safety; food, agriculture, and natural resources policy; ethical questions; role and impact of technology. Crosslisted with: FSTE 2130G.

### AEEC 2140. Technology and Communication for Business Management 3 Credits (2+2P)

Understanding and improving skills for data analysis, information management and communication is the focus of this course. Drawing examples from a variety of management, business, technological and research situations, students discover the versatility and variety of uses of computer applications such as spreadsheet, database, presentation and document software. Emphasizing a 'hands-on' approach students learn the foundations of these tools and their use.

### AEEC 2996. Special Topics

#### 1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree. Consent of instructor required.

# Agriculture - Associate of Applied Science

The Associate of Applied Science in Agriculture program prepares student with classes in the basic agricultural and foundation sciences; business and economics, education, communication, technology, agronomy, animal science, mechanics and horticulture. The purpose of this program is to prepare individuals to apply the broad-based curriculum towards an agricultural career as professional educators, communicators and leaders of agricultural, natural resource, technology and related disciplines. The courses provided through this program will assist in building a strong base of students who are willing to pursue further education opportunities in the agriculture industry. New Mexico has a viable and productive agricultural industry, with cash receipts totaling more than \$3 billion and a total economic impact with over \$6 billion. These facts alone constitute an educated workforce that is prepared for the ever-changing markets and production of the state's food supply, natural resources, and environment. This degree will equip student with the necessary skills for employment within this growing industry.

### **Program Entrance Requirements**

- 1. Apply for admission to NMSU Carlsbad. Anyone who did not attend the previous year must reapply.
- Request official transcripts from high school or GED and any college attended be sent to NMSU Carlsbad.
- 3. Complete NMSU Carlsbad placement tests.
- Meet with an academic advisor once admission is complete (application and transcripts received) and register.

Previous college credits will be considered and evaluated for credit following admission to the University. Placement tests, with the exception of reading, may be waived if the applicant has completed courses equivalent to MATH 1215 Intermediate Algebra and ENGL 1110G Composition I with a grade of "C" or higher.

**Gainful Employment Disclosure**: Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following <u>Gainful Employment Disclosure</u>

### **Graduation Requirements**

- Demonstrate proficiency in reading, math, and English as evidenced by sufficient scores on the WorkKeys ® assessments (for certificates) and the college placement test (for associate degrees). Additional proficiency in typing may be required for Business Office Technology (BOT) majors.
- 2. Earn a cumulative grade point average of 2.0 or higher.
- 3. Complete coursework as specified on the curriculum.
- 4. Submit a graduation application and pay the designated fee.
- 5. The last 15 credits must be taken at NMSU.

Additional coursework in developmental studies may be required based on WorkKeys ® and/or college placement test results. Courses are included in calculating GPA but not in total graduation credits.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Choose one course fr of 12-14 credits. <sup>1, 2</sup>	om four of the following six content areas for a total	12-14
	courses from Areas I, III and IV students must om the remaining areas to complete General ents	
Area I: Communio	cations	
AXED 2120G	Effective Leadership and Communication in Agriculture (Core Requirement)	
Area II: Mathema	tics	
Area III: Laborato	ry Science	
AGRO 1110G	Introduction to Plant Science (Lecture & Lab) (Core Requirement)	
Area IV: Social/Bo	ehavioral Sciences	
AEEC 2130G	Survey of Food and Agricultural Issues (Core Requirement)	
Area V: Humaniti	es	
Area VI: Creative	and Fine Arts	
General Education Ele	ective	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	4
Core Requirements		
AEEC 1110	Introduction to Agricultural Economics and Business	3
AEEC 2110	Principles of Food and Agribusiness Management	3
AGRO 2160	Plant Propagation	3
ANSC 1120 & 1120L	Introduction to Animal Science and Introduction to Animal Science Lab	4
ANSC 2330	Animal Production	3
AXED 1130	Techniques in Agricultural Mechanization	3

BCIS 1110	Introduction to Information Systems	3
ECON 2110G	Macroeconomic Principles	3
or ECON 2120G	Microeconomics Principles	
MATH 1215	Intermediate Algebra	3
POLS 1120G	American National Government	3
WELD 105	Introduction to Welding	3
Electives, to bring the total credits to 60 <sup>3</sup>		10
Total Credits		60-62

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

Additional classes may be needed based on placement test results and/or course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
ANSC 1120	Introduction to Animal Science	4
& 1120L	and Introduction to Animal Science Lab	
AGRO 1110G	Introduction to Plant Science (Lecture & Lab)	4
BCIS 1110	Introduction to Information Systems	3
GEN Ed Course - One co	ourse from Areas II, V or, VI <sup>1</sup>	3-4
	Credits	14-15
Spring		
ANSC 2330	Animal Production	3
AEEC 2130G	Survey of Food and Agricultural Issues	3
AXED 2120G	Effective Leadership and Communication in Agriculture	3
MATH 1215	Intermediate Algebra	3
WELD 105	Introduction to Welding	3
	Credits	15
Second Year		
Fall		
AEEC 1110	Introduction to Agricultural Economics and Business	3
AXED 1130	Techniques in Agricultural Mechanization	3
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	4
Elective Course <sup>2</sup>	,	3
Elective Course <sup>2</sup>		3-4
	Credits	16-17
Spring		
AEEC 2110	Principles of Food and Agribusiness Management	3
AGRO 2160	Plant Propagation	3

ECON 2110G or ECON 2120G	Macroeconomic Principles or Microeconomics Principles	3
POLS 1120G	American National Government	3
Elective Course <sup>2</sup>		3
	Credits	15
	Total Credits	60-62

- See the <u>General Education</u> section of the catalog for a full list of
- Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

# Associate of Arts and General Studies

The New Mexico General Education Common Core Certificate is an academic credential that recognizes accomplishment of the New Mexico Common Core and serves as an intermediate step towards completion of an associate degree for students who plan to transfer to a four-year college or university.

The **Associate Degree in General Studies** equips students with the freedom to design their own two-year program by selecting classes that meet their needs governed only by departmental prerequisites. **Note:** A student who has previously earned an associate degree from NMSU or from any other institution is ineligible to receive an Associate Degree in General Studies.

The **Associate of Arts Degree** allows students to complete general education requirements for most bachelor degree programs. Students should choose electives to meet other requirements for their planned baccalaureate degree such as foreign language requirements or specific requirements within the major.

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into collegelevel math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

General Studies - Associate Degree (p. 99)

Associate of Arts Degree (p. 98)

### **Associate of Arts Degree**

The **Associate of Arts Degree** allows students to complete general education requirements for most bachelor degree programs. Students should choose electives to meet other requirements for their planned baccalaureate degree such as foreign language requirements or specific requirements within the major.

#### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into collegelevel math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher; the last 15 credits taken at NMSU.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
<b>General Education</b>		
Area I: Communication		
English Composition - L	evel 1	
ENGL 1110G	Composition I	4
English Composition - L	evel 2	
Choose one from the f	following:	3
ENGL 2210G	Professional & Technical Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
Oral Communication		
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
Area II: Mathematics		3-4
Complete one 'G' c	ourse from MATH <sup>1, 2</sup>	
Area III/IV: Laboratory S	Science and Social/Behavioral Sciences	10-11
Area III: Laboratory	Sciences Course (4 credits) <sup>2, 3</sup>	
Area IV: Social/Beh	avioral Sciences Course (3 credits) <sup>2, 3</sup>	
Either an Area III/IV Sciences Course (4	/: Laboratory Science or Social/Behavioral For 3 credits) <sup>2, 3</sup>	
Area V: Humanities		3
A 'G' course from E	NGL or HIST is recommended. <sup>2</sup>	
Area VI: Creative and Fi	ne Arts	3
A 'G' course from A	RTH/ARTS, MUSC, or THEA is recommended. <sup>2</sup>	
General Education Elec	tive <sup>2</sup>	3-4
Electives, to bring the	total credits to 60 <sup>4</sup>	28
Total Credits		60-63

- A Mathematics course is required for the degree but students may need to take any prerequisites needed to enter the course first.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- Area III/IV: Laboratory Sciences and Social/Behavioral Sciences recommended are 'G' courses from ASTR, BIOL, CHEM, ENVS, GEOG (must be GEOG 1110G Physical Geography if selected), GEOL, PHYS, ANTH, CJUS, CEPY, ECON, GEOG (must be GEOG 1120G World Regional Geography or GEOG 1130G Human Geography if selected), POLS, PHLS, LING, PSYC, SOCI, or SOWK.

Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

No more than 9 credits may be from any combination of: BOT, FDMA, NURS, RDG, OE, FYEX (excluding FYEX 1112 The Freshman Year Experience), or applied ARTS/ARTH/MUSC/THEA. Also, no more than 9 credits of PHED may apply.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
ENGL 1110G	Composition I	4
Area III: Laboratory S	ciences Course <sup>1</sup>	4
Area V: Humanities C	ourse <sup>1</sup>	3
Area IV: Social/Behav	rioral Sciences Course <sup>1</sup>	3
	Credits	14
Spring		
Area II: Mathematics	Course 1, 2	3-4
Choose one from the	following:	3
ENGL 2210G	Professional & Technical Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
Either an Area III/IV: L Course <sup>1</sup>	aboratory Science or Social/Behavioral Sciences	3-4
Elective Course <sup>3</sup>		3
An additional Area	V: Humanities course is recommended	
Elective Course <sup>3</sup>		3
An additional Area recommended	IV: Social/Behavioral Sciences course is	
	Credits	15-17
Second Year		
Fall		
· un		
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
COMM 1130G	or Introduction to Communication	3
COMM 1130G or COMM 1115G	or Introduction to Communication Fine Arts Course 1	
COMM 1130G or COMM 1115G Area VI: Creative and	or Introduction to Communication Fine Arts Course 1	3
COMM 1130G or COMM 1115G Area VI: Creative and General Education Ele	or Introduction to Communication Fine Arts Course 1	3 3-4
COMM 1130G or COMM 1115G Area VI: Creative and General Education Ele Elective Course <sup>3</sup> Elective Course <sup>3</sup>	or Introduction to Communication Fine Arts Course 1	3 3-4 3
COMM 1130G or COMM 1115G Area VI: Creative and General Education Ele Elective Course <sup>3</sup> Elective Course <sup>3</sup>	or Introduction to Communication Fine Arts Course <sup>1</sup> ective Course <sup>1</sup>	3 3-4 3
COMM 1130G or COMM 1115G Area VI: Creative and General Education Ele Elective Course <sup>3</sup> Elective Course <sup>3</sup>	or Introduction to Communication  Fine Arts Course <sup>1</sup> ective Course <sup>1</sup> III: Laboratory Sciences course is recommended	3 3-4 3 4
COMM 1130G or COMM 1115G Area VI: Creative and General Education Ele Elective Course <sup>3</sup> Elective Course <sup>3</sup> An additional Area	or Introduction to Communication  Fine Arts Course <sup>1</sup> ective Course <sup>1</sup> III: Laboratory Sciences course is recommended	3 3-4 3 4
COMM 1130G or COMM 1115G Area VI: Creative and General Education Ele Elective Course <sup>3</sup> Elective Course <sup>3</sup> An additional Area  Spring Elective Course <sup>3</sup> Either an additional	or Introduction to Communication  Fine Arts Course <sup>1</sup> ective Course <sup>1</sup> III: Laboratory Sciences course is recommended	3 3-4 3 4
COMM 1130G or COMM 1115G Area VI: Creative and General Education Ele Elective Course <sup>3</sup> Elective Course <sup>3</sup> An additional Area  Spring Elective Course <sup>3</sup> Either an additional	or Introduction to Communication  Fine Arts Course   certive Course   n III: Laboratory Sciences course is recommended  Credits  al Area IV/V: Social/Behavioral Sciences or	3 3-4 3 4
COMM 1130G or COMM 1115G Area VI: Creative and General Education Ele Elective Course <sup>3</sup> Elective Course <sup>3</sup> An additional Area  Spring Elective Course <sup>3</sup> Either an additional Humanities course	or Introduction to Communication  Fine Arts Course   certive Course   n III: Laboratory Sciences course is recommended  Credits  al Area IV/V: Social/Behavioral Sciences or	3 3-4 3 4 16-17

Elective Course <sup>3</sup>	2
Credits	15
Total Credits	60-63

- See the <u>General Education</u> section of the catalog for a full list of courses.
- A Mathematics course is required for the degree but students may need to take any prerequisites needed to enter the course first.
- Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

No more than 9 credits may be from any combination of: BOT, FDMA, NURS, RDG, OE, FYEX (excluding FYEX 1112 The Freshman Year Experience), or applied ARTS/ARTH/MUSC/THEA. Also, no more than 9 credits of PHED may apply.

### **General Studies - Associate Degree**

The Associate Degree in General Studies equips students with the freedom to design their own two-year program by selecting classes that meet their needs governed only by departmental prerequisites. Note: A student who has previously earned an associate degree from NMSU or from any other institution is ineligible to receive an Associate Degree in General Studies.

#### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into collegelevel math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher; the last 15 credits taken at NMSU; complete a total of 60 credits (excluding noncredit courses such as any 'N' suffix course)

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
<b>General Education</b>		
Area I: Communications	s <sup>1</sup>	10
English Composition	n - Level 1	
English Composition	n - Level 2	
Oral Communication	1	
Area II: Mathematics <sup>1</sup>		3-4
Area III/IV: Laboratory S	Sciences and Social/Behavioral Science	
Area III: Laboratory	Science Course (4 credits) 1	
Area IV: Social/Beh	avioral Science Course (3 credits) <sup>1</sup>	
Either an Area III/IV Sciences Course (4	/: Laboratory Science or Social/Behavioral	
Area V: Humanities <sup>1</sup>		3
Area VI: Creative and Fi	ine Arts <sup>1</sup>	3
General Education Elective <sup>1</sup>		3-4
Electives, to bring the	total credits to 60 <sup>2</sup>	36-38
Total Credits		60

- Note: According to the requirements outlined in the desired bachelor's degree, it is recommended to utilize elective credit to complete any required second language courses. Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework. A list of General Education courses sorted by Area can be found here.
- Student to select electives that are 100-200 level to bring the total credits to 60. Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

### **Auto Body Collision and Repair**

The **Auto Body Collision and Repair** program prepares individuals for employment in the auto body repair industry in positions such as

- · Automotive Refinish Technician,
- · Auto Body Painter,
- · Collision Technician, and
- · Automotive Body Technician.

Students in Automotive Refinishing learn surface preparation, paint safety, refinishing fundamentals; application of acrylic enamel and base coat/clear coat refinishing systems as well as how to match paint type and color; color theory, evaluation, matching, multiple panel paint blending techniques.

The Collision Repair curriculum has two certificates:

- · Structural Repair and
- · Non-Structural Repair.

Structural repair students learn how to diagnose and repair various types of damage, identify structural components, separate spot welds, position and weld new body panels in place. Non-Structural Repair students learn how to repair heavy collision damage using current I-CAR repair standards and procedures.

### **Graduation Requirements**

Certificate in Automotive Refinishing, Structural Repair, and Non-Structural Repair: WorkKeys® scores of level 4 in Reading for Information, Locating Information, and Applied Mathematics; cumulative GPA of 2.0 or higher. A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic program may have additional requirements.

AAS in Auto Body Collision and Repair: ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Auto Body Collision Repair - Associate of Applied Science (p. 102)

Automotive Refinishing - Certificate (p. 103)

Non-Structural Collision Repair - Certificate (p. 103)

Structural Collision Repair - Certificate (p. 104)

**Gainful Employment Disclosure**: Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following <u>Gainful Employment Disclosure</u>

# AUTO 102. Electrical Measuring Instruments 2 Credits (1+2P)

Selection, operation, and care of electrical measuring instruments.

### AUTO 111. Automotive Mechanics Basics 4 Credits (4)

Basic maintenance procedures of the major components of the automobile using service repair manuals, hand and power tools, precision measurement equipment, fasteners and chemicals. Restricted to: Community Colleges only.

### AUTO 112. Basic Gasoline Engines 5 Credits (2+6P)

Principles of gasoline engine operation. Identification, design, function of engine components; engine disassembly and reassembly; trouble shooting, and rebuilding heads.

### AUTO 113. Automotive Electricity and Electronics PT I 4 Credits (2+4P)

Topics include mastery of DC electricity, use of digital multimeters, troubleshooting electrical problems in starting, charging and accessory systems. Restricted to Community Colleges only.

# AUTO 114. Automotive Electricity and Electronics PT II 4 Credits (2+4P)

Advanced AC and DC automotive electronic circuits. Troubleshooting electronically controlled components including supplemental restraint systems and convenience accessories. May be repeated up to 4 credits. **Prerequisite(s)/Corequisite(s):** AUTO 113. Restricted to Community Colleges campuses only.

# AUTO 115. Automotive Engine Repair 5 Credits (2+6P)

Principles of gasoline engine operation. Identification of engine parts, operation, and function. Disassembly and reassembly. Engine problem diagnoses (cooling system, lubrication system, engine noises). Restricted to Community Colleges only.

# AUTO 117. Electronic Analysis and Tune-Up of Gasoline Engines 5 Credits (2+6P)

Theory and operation of ignition and emission control systems and fuel system. Use of troubleshooting equipment and diagnostic equipment. **Prerequisite:** AUTO 120 or consent of instructor.

### AUTO 119. Manual Transmission/Clutch 5 Credits (2+6P)

Manual transmission, transfer cases, and clutch operating principles. Students will diagnose problems, remove and replace, disassemble, repair, and assemble units.

#### **AUTO 120. Electrical Systems**

#### 4 Credits (2+4P)

Troubleshooting and repair of starters, alternators, and associated circuits. Reading electrical diagrams, diagnosis and repair of electrical accessories

Prerequisite: consent of instructor.

#### **AUTO 122. Automotive Brakes**

#### 4 Credits (2+4P)

Focus is on theory, diagnosis, and service of drum, disc, and anti-lock braking systems, brake component machining, hydraulic component reconditioning, friction and hardware replacement. Restricted to Community Colleges only.

# AUTO 124. Automotive Heating and Air Conditioning 4 Credits (2+4P)

R12 and R134A air conditioning systems maintenance diagnosis and repair. R12 to R134A conversion procedures. Troubleshooting automatic temperature controls and leak detection. Restricted to Community Colleges only.

#### AUTO 125. Brakes

#### 5 Credits (2+6P)

Theory of operation, diagnosis, repair, and maintenance of disc and drum brakes; safety and use of special tools.

### AUTO 126. Suspension, Steering, and Alignment 5 Credits (2+6P)

Types of steering systems, suspension maintenance and repair, fourwheel alignment procedures.

#### **AUTO 127. Basic Automatic Transmission**

#### 4 Credits (2+4P)

Theory and operation of the automatic transmission; maintenance, troubleshooting, diagnosis, and repair of components.

### AUTO 129. Automotive Steering and Suspension 4 Credits (2+4P)

Diagnosis/service of suspension components including shocks, springs, ball joints, manual and power steering systems and four wheel alignment are some areas covered. Restricted to Community Colleges only.

# AUTO 130. Introduction to Transportation Industry 3 Credits (3)

State and national traffic statutes that relate to the trucking industry. A Commercial Driver's License Learner's Permit will be obtained through successful completion of the course.

**Prerequisites:** Must be 18 years of age, have a current driver's license and consent of instructor.

#### AUTO 131. Class A CDL

#### 3 Credits (1+4P)

Instruction in how to perform proper pre-trip inspection; hands-on training with a tractor-trailer unit on the backing range and street driving to develop skills necessary to pass Class A DCL exam. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Class A CDL restricted license (permit) and either restriction of D.O.T.

# AUTO 132. Automotive Air-Conditioning and Heating Systems 4 Credits (2+4P)

Theory and operation, reading schematic diagrams, troubleshooting, repair, and replacement operations performed.

### AUTO 137. Fuel Systems and Emission Controls

#### 4 Credits (2+4P)

Covers theory and operation of fuel system and emission control. Troubleshooting, vacuum diagrams, overhaul, repair and adjustment of carburetion and fuel injection.

Prerequisites: AUTO 117 or consent of instructor.

#### **AUTO 139. Automotive Computer Controls**

#### 4 Credits (2+4P)

Same as OEPM 139.

#### AUTO 162. Advanced Non-Structural Repair I 4 Credits (2+4P)

This course will involve the students in all phases of minor non-structural collision damage repairs. It will encompass sheet metal repair, advanced panel replacement and alignment.

Prerequisite(s): AUTO 161.

# AUTO 163. Advanced Non-Structural Repair II 4 Credits (2+4P)

This course is a continuation of AUTO 162 with emphasis in all phases of minor non-structural damage repair. The student will be instructed in sheet metal repair and panel alignment as well as the R&I of automotive glass and related components.

Prerequisite(s): AUTO 162.

#### AUTO 164. Automotive Industry Collision Repair I 4 Credits (2+4P)

This advanced course is a continuation of AUTO 161, 162, and 163. This course will incorporate all areas of major non-structural collision damage repair. Through practical application the student will learn how to effectively repair all heavy collision damage using current I-CAR repair standards and procedures.

Prerequisite(s): AUTO 163.

### AUTO 165. Automotive Industry Collision Repair II 4 Credits (2+4P)

This advanced course is a continuation of AUTO 164 with emplasis on time efficiency. This course will involve the student in all areas of major collision damage repair. The student will be exposed to all applicable I-CAR industry procedures and standards involved in sheet metal and composite panel repair.

Prerequisite(s): AUTO 164.

### AUTO 172. Introduction to Automotive Refinishing 4 Credits (2+4P)

This course is designed to incorporate all aspects of surface preparation, paint safety, refinishing materials, and refinishing fundamentals. Students will receive instructions for the application of acrylic enamel and base coat/clear coat refinishing systems.

# AUTO 174. Intermediate Automotive Refinishing 4 Credits (2+4P)

This course encompasses all areas of surface preparation, damage repair and refinishing procedures that are necessary for achieving a proper spot repair. Students will also be exposed to safe work habits in the refinishing area and correct automotive detailing procedures.

Prerequisite(s): AUTO 172.

# AUTO 176. Automotive Color Adjustment & Blending 4 Credits (2+4P)

This course will help develop the skills needed to match any type of paint. It will expose the student to color theory, color evaluation, color matching, and other color adjustment factors. The student will be instructed in multiple panel paint blending techniques as well.

Prerequisite(s): AUTO 174.

#### **AUTO 178. Automotive Overall Refinishing** 4 Credits (2+4P)

This course encompasses all areas of automotive refinishing. This advanced course is a continuation of AUTO 176 with emphasis in achieving industry refinishing times and standards consistent with that of I-CAR. The student will be exposed to surface preparation and refinishing techniques involved with overall coat/clear coat refinishing system. Prerequisite(s): AUTO 176.

#### **AUTO 181. Frame and Structural Repair** 4 Credits (2+4P)

This course will involve the student in all areas of frame and structural damage repairs. Through theory and practical application, the student will learn how to diagnose and repair various types of damage include: mash, twist, sag, and side sway. This course will expose the students to safe work habits while using measuring and straightening equipment. Prerequisite(s): AUTO 165.

#### **AUTO 182. Structural Panel Replacement** 4 Credits (2+4P)

This course is a continuation of AUTO 181 with infancies in structural panel replacement. The student will be exposed to frame and unibody measuring equipment and their proper use in sectioning procedures. Through theory and practical application the student will learn how to ID structural components, properly separate spot welds, position and weld new body panels in place.

Prerequisite(s): AUTO 181.

#### **AUTO 201. Engine Performance I** 4 Credits (2+4P)

Theory, function, service and analysis of engine related subsystems including ignition, fuel, starting, and charging systems. Emphasis is placed on diagnosis and operation of electronic engine control management systems. Restricted to Community Colleges only.

#### **AUTO 203. Engine Performance II** 4 Credits (2+4P)

Study of engine management systems and emission control systems, their function and relationship to vehicle performance and air pollution. Emphasis is placed on the analysis and repair of non-compliant vehicles. Restricted to Community Colleges only.

#### **AUTO 204. Engine Performance III** 4 Credits (2+4P)

Study of advanced level diagnostic test procedures and the equipment used to analyze OBD-II emission and drivability concerns. Use of Digital Storage Oscilloscopes, current ramping, Scan Tool analysis of 4 and 5 gas analyzers is mastered. Hybrid vehicles and the latest engine control systems are introduced. Restricted to Community Colleges only.

#### **AUTO 205. Manual Drive Train and Axles** 4 Credits (2+4P)

Operation, diagnosis, maintenance, repair or replacement of manual transmissions, clutch assemblies, differentials, drivelines, axles, and manual transaxles. Restricted to Community Colleges only.

#### **AUTO 206. Automatic Transmissions** 5 Credits (2+6P)

Operation, diagnosis, maintenance, and repair of automatic transmissions including rear wheel drive, front wheel drive, and electronically controlled transmissions and transaxles. Restricted to Community Colleges only.

#### **AUTO 208. Introduction to Alternative Fueled Vehicles** 3 Credits (3)

Course will familiarize student with conditions that are resulting in the alternative fueled vehicle movement as well as the design and safety precautions unique to each alternative fuel. Propulsion systems covered include electric vehicles, bio-fueled vehicles, hybrid-electric vehicles and hydrogen powered vehicles, along with other emerging technologies as appropriate. Restricted to: Community Colleges only.

Prerequisite(s): AUTO 113 and AUTO 114.

#### **AUTO 209. Hybrid Vehicle Service Techniques** 3 Credits (3)

Designed for experienced automotive technicians, this course will cover safety procedures, design, operational overview and service techniques as well as minor diagnosis and repair of all classifications of hybridelectric vehicles. Each student must possess legal Class '0' high voltage gloves and liners to attend this class. Restricted to: Community Colleges only.

Prerequisite(s): AUTO 113 and AUTO 114.

#### **AUTO 221. Cooperative Experience I**

#### 1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

#### **AUTO 255. Special Problems in Automotive Technology** 1-5 Credits

Individual studies in areas directly related to automotive technologies. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

### **AUTO 290. ASE Certification Preparation**

#### 1 Credit (1)

This is the capstone course for the Automotive Technology Program and is a requirement for graduation. Consent of Instructor required. Restricted to: AUTO majors. Restricted to Community Colleges campuses

#### **AUTO 295. Special Topics**

#### 1-6 Credits

Topics to be announced in the Schedule of Classes.

### **Auto Body Collision Repair -Associate of Applied Science**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 75 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education	on	
Choose one cours of 12-14 credits <sup>1,</sup>	se from four of the following six content areas for a total 2	12-14
Area I: Comm	unications	
ENGL 1110G	Composition I (Recommended)	
Area II: Mathe	ematics	
Area III: Labor	ratory Science	
Area IV: Socia	l/Behavioral Sciences	
Area V: Huma	nities	
Area VI: Creat	ive and Fine Arts	
General Education	n Elective <sup>2</sup>	3-4

Core Requirements		
OETS 118	Mathematics for Technicians	3
AUTO 120	Electrical Systems	4
AUTO 221	Cooperative Experience I	3
AUTO 162	Advanced Non-Structural Repair I	4
AUTO 163	Advanced Non-Structural Repair II	4
AUTO 164	Automotive Industry Collision Repair I	4
AUTO 165	Automotive Industry Collision Repair II	4
AUTO 172	Introduction to Automotive Refinishing	4
AUTO 174	Intermediate Automotive Refinishing	4
AUTO 176	Automotive Color Adjustment & Blending	4
AUTO 178	Automotive Overall Refinishing	4
AUTO 181	Frame and Structural Repair	4
AUTO 182	Structural Panel Replacement	4
Approved AUTO Elec	tive Courses	10
Total Credits		75-78

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses

### A Suggested Plan of Study

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Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
OETS 118	Mathematics for Technicians	3
AUTO 172	Introduction to Automotive Refinishing	4
GEN Ed Course – One	course from Areas I-VI <sup>1, 2</sup>	3
Approved AUTO Electi	ve	3
	Credits	13
Spring		
AUTO 120	Electrical Systems	4
Approved AUTO Electi	ve	4
AUTO 174	Intermediate Automotive Refinishing	4
AUTO 221	Cooperative Experience I	3
	Credits	15
Second Year		
Fall		
ган		
AUTO 162	Advanced Non-Structural Repair I	4
AUTO 162 AUTO 176	Automotive Color Adjustment & Blending	4
AUTO 162 AUTO 176	•	·
AUTO 162 AUTO 176	Automotive Color Adjustment & Blending	4
AUTO 162 AUTO 176	Automotive Color Adjustment & Blending course from Areas I-VI <sup>1, 2</sup>	4
AUTO 162 AUTO 176 GEN Ed Course – One	Automotive Color Adjustment & Blending course from Areas I-VI <sup>1, 2</sup>	4
AUTO 162 AUTO 176 GEN Ed Course – One Spring	Automotive Color Adjustment & Blending course from Areas I-VI <sup>1, 2</sup> Credits	3
AUTO 162 AUTO 176 GEN Ed Course – One Spring AUTO 163 AUTO 178 Approved AUTO Electi	Automotive Color Adjustment & Blending course from Areas I-VI 1, 2 Credits  Advanced Non-Structural Repair II Automotive Overall Refinishing	4 3 11
AUTO 162 AUTO 176 GEN Ed Course – One Spring AUTO 163 AUTO 178 Approved AUTO Electi	Automotive Color Adjustment & Blending course from Areas I-VI <sup>1, 2</sup> Credits  Advanced Non-Structural Repair II Automotive Overall Refinishing	4 3 11 4 4
AUTO 162 AUTO 176 GEN Ed Course – One Spring AUTO 163 AUTO 178 Approved AUTO Electi	Automotive Color Adjustment & Blending course from Areas I-VI 1, 2 Credits  Advanced Non-Structural Repair II Automotive Overall Refinishing	4 3 11 4 4 3
AUTO 162 AUTO 176 GEN Ed Course – One Spring AUTO 163 AUTO 178 Approved AUTO Electi	Automotive Color Adjustment & Blending course from Areas I-VI 1, 2 Credits  Advanced Non-Structural Repair II Automotive Overall Refinishing ve course from Areas I-VI 1, 2	4 3 11 4 4 3 3-4
AUTO 162 AUTO 176 GEN Ed Course – One Spring AUTO 163 AUTO 178 Approved AUTO Electi GEN Ed Course – One	Automotive Color Adjustment & Blending course from Areas I-VI 1, 2 Credits  Advanced Non-Structural Repair II Automotive Overall Refinishing ve course from Areas I-VI 1, 2	4 3 11 4 4 3 3-4
AUTO 162 AUTO 176 GEN Ed Course – One Spring AUTO 163 AUTO 178 Approved AUTO Electi GEN Ed Course – One Third Year	Automotive Color Adjustment & Blending course from Areas I-VI 1, 2 Credits  Advanced Non-Structural Repair II Automotive Overall Refinishing ve course from Areas I-VI 1, 2	4 3 11 4 4 3 3-4

GEN Ed Course – One course from Areas I-VI <sup>1, 2</sup>		3-4
ENGL 1110G	Composition I (Recommended)	
	Credits	11-12
Spring		
AUTO 181	Frame and Structural Repair	4
AUTO 182	Structural Panel Replacement	4
General Education Elective - Any 'G' Course <sup>2</sup>		3-4
	Credits	11-12
	Total Credits	75-78

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses

### **Automotive Refinishing - Certificate**

Prefix	Title	Credits
Core Curriculum Requ	uirements	
OETS 118	Mathematics for Technicians	3
AUTO 172	Introduction to Automotive Refinishing	4
AUTO 174	Intermediate Automotive Refinishing	4
AUTO 176	Automotive Color Adjustment & Blending	4
AUTO 178	Automotive Overall Refinishing	4
AUTO 221	Cooperative Experience I	3
Approved AUTO Elect	ive	3
Total Credits		25

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
	Title	Credits
First Year		
Fall		
OETS 118	Mathematics for Technicians	3
Approved AUTO	Elective	3
AUTO 172	Introduction to Automotive Refinishing	4
AUTO 176	Automotive Color Adjustment & Blending	4
	Credits	14
Spring		
AUTO 174	Intermediate Automotive Refinishing	4
AUTO 178	Automotive Overall Refinishing	4
AUTO 221	Cooperative Experience I	3
	Credits	11
	Total Credits	25

# Non-Structural Collision Repair - Certificate

Prefix	Title	Credits
Core Curriculum Rec	quirements	
OETS 118	Mathematics for Technicians	3
AUTO 162	Advanced Non-Structural Repair I	4
AUTO 163	Advanced Non-Structural Repair II	4
AUTO 164	Automotive Industry Collision Repair I	4

AUTO 165	Automotive Industry Collision Repair II	4
Approved AUTO Electiv	ve	4
Approved AUTO Electiv	ve	3
Total Credits		26

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
AUTO 162	Advanced Non-Structural Repair I	4
AUTO 164	Automotive Industry Collision Repair I	4
OETS 118	Mathematics for Technicians	3
	Credits	11
Spring		
AUTO 163	Advanced Non-Structural Repair II	4
AUTO 165	Automotive Industry Collision Repair II	4
Approved AUTO I	Elective	3
Approved Auto E	lective	4
	Credits	15
	Total Credits	26

# Structural Collision Repair - Certificate

Prefix	Title	Credits
Core Curriculum Re	quirements	
OETS 118	Mathematics for Technicians	3
AUTO 162	Advanced Non-Structural Repair I	4
AUTO 163	Advanced Non-Structural Repair II	4
AUTO 181	Frame and Structural Repair	4
AUTO 182	Structural Panel Replacement	4
Approved AUTO Elec	ctive	4
Approved AUTO Elec	ctive	3
Total Credits		26

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
OETS 118	Mathematics for Technicians	3
AUTO 181	Frame and Structural Repair	4
AUTO 162	Advanced Non-Structural Repair I	4
	Credits	11
Spring		
AUTO 163	Advanced Non-Structural Repair II	4
AUTO 182	Structural Panel Replacement	4
Approved AUTO Electiv	ve	3

Approved AUTO Elective	4
Credits	15
Total Credits	26

### **Automotive Technology**

The **Automotive Technology** program teaches individuals the technical knowledge and skills needed to repair, service, and maintain all types of automobiles. Students study brake systems, electrical systems, engine performance and repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems. The program is competency-based as required by the National Automotive Foundation (NAFEF).

### **Graduation Requirements**

Certificate in Automotive Technology: WorkKeys® scores of level 4 in Reading for Information, Locating Information, and Applied Mathematics; cumulative GPA of 2.0 or higher. A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic program may have additional requirements.

AAS in Automotive Technology: ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements. TOTAL CREDITS REQUIRED FOR DEGREE: (63)

Automotive Technology - Certificate (p. 107)

**Gainful Employment Disclosure**: Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following <u>Gainful Employment</u> Disclosure

Automotive Technology - Associate of Applied Science (p. 107)

# AUTO 102. Electrical Measuring Instruments 2 Credits (1+2P)

Selection, operation, and care of electrical measuring instruments.

# AUTO 111. Automotive Mechanics Basics 4 Credits (4)

Basic maintenance procedures of the major components of the automobile using service repair manuals, hand and power tools, precision measurement equipment, fasteners and chemicals. Restricted to: Community Colleges only.

# AUTO 112. Basic Gasoline Engines 5 Credits (2+6P)

Principles of gasoline engine operation. Identification, design, function of engine components; engine disassembly and reassembly; trouble shooting, and rebuilding heads.

# AUTO 113. Automotive Electricity and Electronics PT I 4 Credits (2+4P)

Topics include mastery of DC electricity, use of digital multimeters, troubleshooting electrical problems in starting, charging and accessory systems. Restricted to Community Colleges only.

# AUTO 114. Automotive Electricity and Electronics PT II 4 Credits (2+4P)

Advanced AC and DC automotive electronic circuits. Troubleshooting electronically controlled components including supplemental restraint systems and convenience accessories. May be repeated up to 4 credits. **Prerequisite(s)/Corequisite(s):** AUTO 113. Restricted to Community

# Colleges campuses only. AUTO 115. Automotive Engine Repair

#### 5 Credits (2+6P)

Principles of gasoline engine operation. Identification of engine parts, operation, and function. Disassembly and reassembly. Engine problem diagnoses (cooling system, lubrication system, engine noises). Restricted to Community Colleges only.

# AUTO 117. Electronic Analysis and Tune-Up of Gasoline Engines 5 Credits (2+6P)

Theory and operation of ignition and emission control systems and fuel system. Use of troubleshooting equipment and diagnostic equipment. **Prerequisite:** AUTO 120 or consent of instructor.

#### AUTO 119. Manual Transmission/Clutch

#### 5 Credits (2+6P)

Manual transmission, transfer cases, and clutch operating principles. Students will diagnose problems, remove and replace, disassemble, repair, and assemble units.

#### **AUTO 120. Electrical Systems**

#### 4 Credits (2+4P)

Troubleshooting and repair of starters, alternators, and associated circuits. Reading electrical diagrams, diagnosis and repair of electrical accessories.

Prerequisite: consent of instructor.

#### **AUTO 122. Automotive Brakes**

#### 4 Credits (2+4P)

Focus is on theory, diagnosis, and service of drum, disc, and anti-lock braking systems, brake component machining, hydraulic component reconditioning, friction and hardware replacement. Restricted to Community Colleges only.

### AUTO 124. Automotive Heating and Air Conditioning

#### 4 Credits (2+4P)

R12 and R134A air conditioning systems maintenance diagnosis and repair. R12 to R134A conversion procedures. Troubleshooting automatic temperature controls and leak detection. Restricted to Community Colleges only.

#### AUTO 125. Brakes

#### 5 Credits (2+6P)

Theory of operation, diagnosis, repair, and maintenance of disc and drum brakes; safety and use of special tools.

### AUTO 126. Suspension, Steering, and Alignment

#### 5 Credits (2+6P)

Types of steering systems, suspension maintenance and repair, four-wheel alignment procedures.

#### **AUTO 127. Basic Automatic Transmission**

#### 4 Credits (2+4P)

Theory and operation of the automatic transmission; maintenance, troubleshooting, diagnosis, and repair of components.

# AUTO 129. Automotive Steering and Suspension 4 Credits (2+4P)

Diagnosis/service of suspension components including shocks, springs, ball joints, manual and power steering systems and four wheel alignment are some areas covered. Restricted to Community Colleges only.

#### **AUTO 130. Introduction to Transportation Industry**

#### 3 Credits (3)

State and national traffic statutes that relate to the trucking industry. A Commercial Driver's License Learner s Permit will be obtained through successful completion of the course.

**Prerequisites:** Must be 18 years of age, have a current driver's license and consent of instructor.

#### AUTO 131. Class A CDL

#### 3 Credits (1+4P)

Instruction in how to perform proper pre-trip inspection; hands-on training with a tractor-trailer unit on the backing range and street driving to develop skills necessary to pass Class A DCL exam. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Class A CDL restricted license (permit) and either restriction of D.O.T.

### AUTO 132. Automotive Air-Conditioning and Heating Systems 4 Credits (2+4P)

Theory and operation, reading schematic diagrams, troubleshooting, repair, and replacement operations performed.

# AUTO 137. Fuel Systems and Emission Controls 4 Credits (2+4P)

Covers theory and operation of fuel system and emission control. Troubleshooting, vacuum diagrams, overhaul, repair and adjustment of carburetion and fuel injection.

Prerequisites: AUTO 117 or consent of instructor.

#### **AUTO 139. Automotive Computer Controls**

#### 4 Credits (2+4P)

Same as OEPM 139.

#### AUTO 162. Advanced Non-Structural Repair I

#### 4 Credits (2+4P)

This course will involve the students in all phases of minor non-structural collision damage repairs. It will encompass sheet metal repair, advanced panel replacement and alignment.

Prerequisite(s): AUTO 161.

#### AUTO 163. Advanced Non-Structural Repair II 4 Credits (2+4P)

This course is a continuation of AUTO 162 with emphasis in all phases of minor non-structural damage repair. The student will be instructed in sheet metal repair and panel alignment as well as the R&I of automotive glass and related components.

Prerequisite(s): AUTO 162.

#### AUTO 164. Automotive Industry Collision Repair I 4 Credits (2+4P)

This advanced course is a continuation of AUTO 161, 162, and 163. This course will incorporate all areas of major non-structural collision damage repair. Through practical application the student will learn how to effectively repair all heavy collision damage using current I-CAR repair standards and procedures.

Prerequisite(s): AUTO 163.

# AUTO 165. Automotive Industry Collision Repair II 4 Credits (2+4P)

This advanced course is a continuation of AUTO 164 with emplasis on time efficiency. This course will involve the student in all areas of major collision damage repair. The student will be exposed to all applicable I-CAR industry procedures and standards involved in sheet metal and composite panel repair.

Prerequisite(s): AUTO 164.

### AUTO 172. Introduction to Automotive Refinishing 4 Credits (2+4P)

This course is designed to incorporate all aspects of surface preparation, paint safety, refinishing materials, and refinishing fundamentals. Students will receive instructions for the application of acrylic enamel and base coat/clear coat refinishing systems.

# AUTO 174. Intermediate Automotive Refinishing 4 Credits (2+4P)

This course encompasses all areas of surface preparation, damage repair and refinishing procedures that are necessary for achieving a proper spot repair. Students will also be exposed to safe work habits in the refinishing area and correct automotive detailing procedures.

Prerequisite(s): AUTO 172.

# AUTO 176. Automotive Color Adjustment & Blending 4 Credits (2+4P)

This course will help develop the skills needed to match any type of paint. It will expose the student to color theory, color evaluation, color matching, and other color adjustment factors. The student will be instructed in multiple panel paint blending techniques as well.

Prerequisite(s): AUTO 174.

### AUTO 178. Automotive Overall Refinishing 4 Credits (2+4P)

This course encompasses all areas of automotive refinishing. This advanced course is a continuation of AUTO 176 with emphasis in achieving industry refinishing times and standards consistent with that of I-CAR. The student will be exposed to surface preparation and refinishing techniques involved with overall coat/clear coat refinishing system.

Prerequisite(s): AUTO 176.

# AUTO 181. Frame and Structural Repair 4 Credits (2+4P)

This course will involve the student in all areas of frame and structural damage repairs. Through theory and practical application, the student will learn how to diagnose and repair various types of damage include: mash, twist, sag, and side sway. This course will expose the students to safe work habits while using measuring and straightening equipment.

Prerequisite(s): AUTO 165.

### AUTO 182. Structural Panel Replacement 4 Credits (2+4P)

This course is a continuation of AUTO 181 with infancies in structural panel replacement. The student will be exposed to frame and unibody measuring equipment and their proper use in sectioning procedures. Through theory and practical application the student will learn how to ID structural components, properly separate spot welds, position and weld new body panels in place.

Prerequisite(s): AUTO 181.

#### AUTO 201. Engine Performance I 4 Credits (2+4P)

Theory, function, service and analysis of engine related subsystems including ignition, fuel, starting, and charging systems. Emphasis is placed on diagnosis and operation of electronic engine control management systems. Restricted to Community Colleges only.

# AUTO 203. Engine Performance II 4 Credits (2+4P)

Study of engine management systems and emission control systems, their function and relationship to vehicle performance and air pollution. Emphasis is placed on the analysis and repair of non-compliant vehicles. Restricted to Community Colleges only.

### AUTO 204. Engine Performance III 4 Credits (2+4P)

Study of advanced level diagnostic test procedures and the equipment used to analyze OBD-II emission and drivability concerns. Use of Digital Storage Oscilloscopes, current ramping, Scan Tool analysis of 4 and 5 gas analyzers is mastered. Hybrid vehicles and the latest engine control systems are introduced. Restricted to Community Colleges only.

# AUTO 205. Manual Drive Train and Axles 4 Credits (2+4P)

Operation, diagnosis, maintenance, repair or replacement of manual transmissions, clutch assemblies, differentials, drivelines, axles, and manual transaxles. Restricted to Community Colleges only.

### AUTO 206. Automatic Transmissions 5 Credits (2+6P)

Operation, diagnosis, maintenance, and repair of automatic transmissions including rear wheel drive, front wheel drive, and electronically controlled transmissions and transaxles. Restricted to Community Colleges only.

# AUTO 208. Introduction to Alternative Fueled Vehicles 3 Credits (3)

Course will familiarize student with conditions that are resulting in the alternative fueled vehicle movement as well as the design and safety precautions unique to each alternative fuel. Propulsion systems covered include electric vehicles, bio-fueled vehicles, hybrid-electric vehicles and hydrogen powered vehicles, along with other emerging technologies as appropriate. Restricted to: Community Colleges only.

Prerequisite(s): AUTO 113 and AUTO 114.

### AUTO 209. Hybrid Vehicle Service Techniques 3 Credits (3)

Designed for experienced automotive technicians, this course will cover safety procedures, design, operational overview and service techniques as well as minor diagnosis and repair of all classifications of hybrid-electric vehicles. Each student must possess legal Class '0' high voltage gloves and liners to attend this class. Restricted to: Community Colleges only

Prerequisite(s): AUTO 113 and AUTO 114.

#### AUTO 221. Cooperative Experience I

#### 1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

# AUTO 255. Special Problems in Automotive Technology 1-5 Credits

Individual studies in areas directly related to automotive technologies. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

#### **AUTO 290. ASE Certification Preparation**

#### 1 Credit (1)

This is the capstone course for the Automotive Technology Program and is a requirement for graduation. Consent of Instructor required. Restricted to: AUTO majors. Restricted to Community Colleges campuses

#### **AUTO 295. Special Topics**

#### 1-6 Credits

Topics to be announced in the Schedule of Classes.

# **Automotive Technology - Associate of Applied Science**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 62 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Choose one course from of 12-14 credits. 1, 2	om four of the following six content areas for a total	12-14
Area I: Communio	cations	
Area II: Mathema	tics	
Area III: Laboratory Science		
Area IV: Social/Behavioral Sciences		
Area V: Humanitie	es	
Area VI: Creative	and Fine Arts	
General Education Ele	ective <sup>2</sup>	3-4
Core Curriculum Rec	uirements	
AUTO 112	Basic Gasoline Engines	5
AUTO 117	Electronic Analysis and Tune-Up of Gasoline Engines	5
OETS 118	Mathematics for Technicians	3
AUTO 119	Manual Transmission/Clutch	5
AUTO 120	Electrical Systems	4
AUTO 125	Brakes	5
AUTO 126	Suspension, Steering, and Alignment	5
AUTO 127	Basic Automatic Transmission	4
or AUTO 132	Automotive Air-Conditioning and Heating Systems	
AUTO 137	Fuel Systems and Emission Controls	4
Related Requiremen	ts	
Approved BMGT Elective		3
OECS 105	Introduction to Information Technology	3
or OECS 227	Computer Applications for Technicians	
OETS 102	Career Readiness Certification Preparation	1
Total Credits		62-65

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
AUTO 112	Basic Gasoline Engines	5
AUTO 120	Electrical Systems	4
AUTO 126	Suspension, Steering, and Alignment	5
	Credits	14

Spring			
AUTO 117	Electronic Analysis and Tune-Up of Gasoline Engines	5	
AUTO 125	Brakes	5	
AUTO 119	Manual Transmission/Clutch	5	
OETS 102	Career Readiness Certification Preparation	1	
	Credits	16	
Second Year			
Fall			
GEN Ed Course - One course from Areas I-VI 1,2			
OETS 118	Mathematics for Technicians	3	
OECS 105 or OECS 227	Introduction to Information Technology or Computer Applications for Technicians	3	
GEN Ed Course - One course from Areas I-VI 1, 2			
ENGL 1110G	Composition I (Recommended)		
GEN Ed Course - One course from Areas I-VI <sup>1, 2</sup>			
	Credits	15-17	
Spring			
AUTO 127 or AUTO 132	Basic Automatic Transmission or Automotive Air-Conditioning and Heating	4	
	Systems		
AUTO 137	Fuel Systems and Emission Controls	4	
Approved BMGT Elective			
GEN Ed Course - One course from Areas I-VI 1,2		3	
General Education Elective - Any 'G' Course <sup>2</sup>			
	Credits	17-18	
	Total Credits	62-65	

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

### **Automotive Technology - Certificate**

Prefix	Title	Credits		
Core Curriculum Requirements				
AUTO 112	Basic Gasoline Engines	5		
AUTO 117	Electronic Analysis and Tune-Up of Gasoline Engines	5		
AUTO 119	Manual Transmission/Clutch	5		
AUTO 120	Electrical Systems	4		
AUTO 125	Brakes	5		
AUTO 126	Suspension, Steering, and Alignment	5		
AUTO 127	Basic Automatic Transmission	4		
or AUTO 132	Automotive Air-Conditioning and Heating Systems			
AUTO 137	Fuel Systems and Emission Controls	4		
Related Program Requirements				
OETS 102	Career Readiness Certification Preparation	1		
OETS 118	Mathematics for Technicians	3		
DRFT 190	Finding and Maintaining Employment	2		
Total Credits		43		

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
AUTO 112	Basic Gasoline Engines	5
AUTO 120	Electrical Systems	4
AUTO 126	Suspension, Steering, and Alignment	5
	Credits	14
Spring		
AUTO 117	Electronic Analysis and Tune-Up of Gasoline Engines	5
AUTO 125	Brakes	5
AUTO 137	Fuel Systems and Emission Controls	4
	Credits	14
Second Year		
Fall		
AUTO 119	Manual Transmission/Clutch	5
OETS 118	Mathematics for Technicians	3
	Credits	8
Spring		
AUTO 127	Basic Automatic Transmission	4
or AUTO 132	or Automotive Air-Conditioning and Heating Systems	
DRFT 190	Finding and Maintaining Employment	2
OETS 102	Career Readiness Certification Preparation	1
	Credits	7
	Total Credits	43

### **Building Technology**

Building Construction Technology is a program that will prepare you to enter the growing construction industry. Your hands-on education will encompass project management, sustainable (green) building, construction law, blueprint reading, basic surveying, use of wood building materials, concrete work, and weatherization, and masonry, correct use of hand and power tools, safety procedures, math skills, painting, and communication skills to help you work with both colleagues and clients.

### **Graduation Requirements**

Certificate in Building Trades: WorkKeys® scores of level 4 in Reading for Information, Locating Information, and Applied Mathematics; cumulative GPA of 2.0 or higher. A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic program may have additional requirements.

AAS in Building Technology: ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements. TOTAL CREDITS REQUIRED FOR DEGREE: (61)

Building Trades - Certificate (p. 111)

Gainful Employment Disclosure: Important information about the educational debt, earnings, and completion rates of students who

attend this program can be found on the following <u>Gainful Employment</u> Disclosure

Building Technology - Associate of Applied Science (p. 110)

#### BCT 100. Building Trades I

#### 8 Credits (2+12P)

Equipment and general safety. Human relations, building construction surveying, footings, foundation form work, framing, sheathing, insulation. Basic electrical wiring and plumbing. Classroom instruction, on-the-job training, and problem solving.

### BCT 101. Introduction to Construction I 2 Credits (2+1P)

Basic safety, including personal protective equipment, how to perform basic construction tasks safely, and what to do if an accident occurs. Includes basic construction methods. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 102;BCT 103.

### BCT 102. Introduction to Construction II 2 Credits (2+1P)

Introduction to power and hand tools, blueprints, and basic rigging hardware and techniques. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 101;BCT 103.

### BCT 103. Introduction to Construction Laboratory 3 Credits (3)

Provides students the opportunity to practice skills they have acquired in BCT 101 and BCT 102. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 101; BCT 102.

#### BCT 104. Woodworking Skills I

#### 3 Credits (1+4P)

Use and care of hand tools and elementary power tools, safety procedures, and supervised project construction.

#### BCT 105. Woodworking Skills II

#### 3 Credits (1+4P)

Advanced woodworking skills to include use of advanced power tools, power tool safety, and supervised construction.

Prerequisite: BCT 104 or consent of instructor.

### BCT 106. Woodworking Theory and Practice 3 Credits (2+2P)

History of wood manufacturing, industrial techniques, wood characteristics, stains and finishes. Design and construction of minor wood projects.

#### BCT 107. Painting I

#### 4 Credits (2+4P)

Types and applications of paints and clear coatings. Use of fasteners, caulks, and sealants. Restricted to: Community Colleges only.

#### BCT 109. Plumbing I

#### 3 Credits (2+3P)

Covers orientation to the trade. Students will learn about materials used in the plumbing industry and the different types of plumbing fixtures. It includes task-oriented projects in which the students apply many of the skills and knowledge that are presented through the National Center for Construction and Education Research (NCCER) Plumbing Program. May be repeated up to 3 credits.

**Prerequisite(s)/Corequisite(s):** BCT 101, BCT 102. Restricted to Community Colleges campuses only.

### BCT 110. Blueprint Reading for Building Trades 4 Credits (2+4P)

Same as DRFT 151, OEET 101, OEPB 110.

### BCT 111. Small Equipment Maintenance and Repair 4 Credits (2+4P)

Covers small engine theory, troubleshooting and repair, auto maintenance, hydraulic theory and repair lubricants, batteries and scheduled tool maintenance. Restricted to: Community Colleges only.

#### **BCT 114. Basic Carpentry**

#### 3 Credits (1+4P)

Covers orientation to the trade; wood building materials, fasteners, and adhesives; detailed description and explanations of hand-operated and power tools, including safety; framing basics including laying out and constructing of wood floors, walls and ceilings and includes roughing in of door and window openings. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 115; BCT 116.

#### BCT 115. Carpentry Level I

#### 3 Credits (1+4P)

Describes the various kinds of roofs and provides instructions for lay out of the different roofing systems. Describes the various types of windows, skylights, and exterior doors and provides instruction for installation. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114; BCT 116.

#### **BCT 116. Basic Carpentry Lab**

#### 2 Credits (2)

Provides students the opportunity to practice skills they have acquired in BCT 114 and BCT 115. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114; BCT 115.

#### BCT 117. Plumbing 1A

#### 3 Credits (2+2P)

This course will introduce students to the plumbing profession. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field. Restricted to Community Colleges campuses only.

#### **BCT 118. Math for Building Trades**

#### 3 Credits (3)

Geometry, algebra, arithmetic, and basic trigonometry pertaining to mathematical applications in the building trades field. Same as OEET 118, DRFT 118, OEPB 118.

Prerequisite: CCDM 103 N.

#### BCT 123. Residential Wiring I

#### 3 Credits (2+3P)

Introduction to residential electrical wiring trade, electrical safety practices, basic electrical circuits and theory, reading and interpreting applicable construction prints/drawings, introduction to basic National Electric Code (NEC), and preparation for entry-level employment in residential electrical wiring. Restricted to Community Colleges campuses only.

### BCT 130. Professional Development and Leadership 1 Credit (1)

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing or participating in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: BCT majors. Graded: S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

#### **BCT 150. Forklift Operation**

#### 1 Credit (1)

Classroom instruction and hands-on practice to prepare students to operate a forklift safely in the workplace. Students will have the opportunity to earn a forklift operator's permit. Consent of Instructor required. Restricted to Community Colleges campuses only.

#### BCT 200. Building Trades II 8 Credits (2+12P)

Continuation of BCT 100: roofing; exterior and interior finish; masonry; door, window, and cabinet installation.

#### BCT 206. Advanced Cabinetmaking

#### 3 Credits (1+3P)

Advanced cabinetmaking skills, to include expert use of hand and power tools, professional construction and finishing techniques.

Prerequisites: BCT 105, BCT 106, or consent of instructor.

#### BCT 209. Plumbing II

#### 3 Credits (2+3P)

Continuation of BCT 109. Provides students the opportunity to gain more practice in the skills and knowledge learned in Plumbing I. Students will install fixtures and run the various plumbing supply lines from Plumbing Level I. The course included hands on projects in which the students apply many of the competencies that have been presented through the National Center for Construction and Education Research (NCCER) Plumbing Program. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): BCT 109.

#### BCT 217. Building and the Environment

#### 3 Credits (3)

Introduction to LEED's, and Green Building Fundamentals, sustainability, sustainable design and green building evaluating cost implication of green building. Describes site development; managing site water runoff, improving a project's water use efficiency. Discusses renewable energy sources, and introduces student to generating power on-site using renewable energy sources, improving a building's indoor environment quality, improving the building industries' environmental performance and environmental aspects of building maintenance, re-use and conservation. Restricted to: Community Colleges only.

#### BCT 218. Plumbing 2

#### 4 Credits (2+4P)

This course builds on the skills and knowledge students have gained in previous BCT introduction to plumbing courses, focusing on installation of plumbing systems. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field.

Prerequisite(s): BCT 117 and BCT 119.

### BCT 219. Weatherization in Construction 3 Credits (2+2P)

Introduction to industry weatherization standards and practices utilized in the construction of buildings for the purpose of energy conservation. Economic and environmental impacts of the use of energy in heating and cooling building will be examined.

Prerequisite(s): BCT 101, BCT 102 and BCT 103.

#### **BCT 221. Cooperative Experience I**

#### 1-4 Credits

Supervised cooperative work program. Student is employed in an approved occupation and is supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

#### BCT 223. Residential Wiring II

#### 3 Credits (2+3P)

Introduction to electrical raceways and fittings; electrical conductors and cables; basic electrical construction drawings, residential electrical services, and electrical test equipment. Restricted to Community Colleges campuses only.

Prerequisite(s): BCT 123.

#### BCT 255. Special Topics 1-6 Credits (1-6)

Topics to be announced in the Schedule of Classes. May be repeated up to 12 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

### BCT 290. Special Problems in Building Technology

#### 1-4 Credits

Individual studies in areas directly related to building technologies. **Prerequisite:** consent of instructor.

# **Building Technology - Associate of Applied Science**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60-63 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Educa	ition	
Choose one color of 12-14 credits	urse from four of the following six content areas for a total s. <sup>1,2</sup>	12-14
Area I: Com	nmunications	
Area II: Mat	thematics	
Area III: Lal	boratory Science	
Area IV: So	cial/Behavioral Sciences	
Area VI: Cre	eative and Fine Arts	
General Educat	tion Elective <sup>2</sup>	3-4
Core Requirem	nents	
Prereauisite Re	equirements	

DDET 105	T 1 1 10 1 C 1 1 .	•
DRFT 105	Technical Drawing for Industry	3
DRFT 130	General Building Codes	3
DRFT 160	Construction Take-Offs and Estimating	3
BCT 118	Math for Building Trades	3
Major Requirements		
Technical Requirement	's	
BCT 100	Building Trades I	8
BCT 104	Woodworking Skills I	3
BCT 105	Woodworking Skills II	3
BCT 110	Blueprint Reading for Building Trades	4
BCT 200	Building Trades II	8
BCT 255	Special Topics	4
BCT 290	Special Problems in Building Technology	3
Total Credits		60-63

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

### A Suggested Plan of Study

Title

Course

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Credits

First Year		
Fall		
BCT 100	Building Trades I	8
BCT 104	Woodworking Skills I	3
DRFT 130	General Building Codes	3
	Credits	14
Spring		
BCT 200	Building Trades II	8
BCT 105	Woodworking Skills II	3
BCT 110	Blueprint Reading for Building Trades	4
GEN Ed course - On	e course from Areas I-VI	3
	Credits	18
Second Year		
Fall		
DRFT 160	Construction Take-Offs and Estimating	3
BCT 255	Special Topics	4
BCT 118	Math for Building Trades	3
DRFT 105	Technical Drawing for Industry	3
GEN Ed course - On	e coruse from Areas I-VI <sup>1</sup>	3
	Credits	16
Spring		
BCT 290	Special Problems in Building Technology	3
GEN Ed course - On	e course from Areas I-VI <sup>1</sup>	3-4
GEN Ed course - One course from Areas I-VI		3-4
General Education I	Elective - Any 'G' course <sup>1</sup>	3-4
	Credits	12-15
-	Total Credits	60-63

See the <u>General Education</u> section of the catalog for a full list of courses.

### **Building Trades - Certificate**

Prefix	Title	Credits
Core Curriculum Requ	irements	
BCT 100	Building Trades I	8
BCT 104	Woodworking Skills I	3
BCT 105	Woodworking Skills II	3
BCT 110	Blueprint Reading for Building Trades	4
BCT 200	Building Trades II	8
BCT 255	Special Topics	1-6
BCT 290	Special Problems in Building Technology	1-4
Total Credits		28-36

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
BCT 100	Building Trades I	8
BCT 104	Woodworking Skills I	3
BCT 255	Special Topics	1-6
	Credits	12-17
Spring		
BCT 200	Building Trades II	8
BCT 105	Woodworking Skills II	3
BCT 290	Special Problems in Building Technology	1-4
BCT 110	Blueprint Reading for Building Trades	4
	Credits	16-19
	Total Credits	28-36

### **Business Management**

The Associate of Applied Science in Business Management prepares students for managerial and supervisory positions in a variety of businesses and industry. The curriculum emphasizes accounting, economics, finance, data analysis, marketing, business communication, and human resources. Students will apply their knowledge and skills through a capstone course as well as a cooperative experience.

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Business Management - Associate of Applied Science (p. 113)

#### BMGT 112. Banks and Your Money

#### 3 Credits (3)

Banking in today's economy: language and documents of banking, check processing, teller functions, deposit function, trust services, bank bookkeeping, loans, and investments. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

#### **BMGT 126. Retail Management**

#### 3 Credits (3)

Phases of retailing, including types of retail outlets and basic problems of organizing and operating a retail store. Restricted to: Community Colleges only.

#### **BMGT 132. Principles of Selling**

#### 3 Credits (3)

Analysis of customer behavior, persuasive communication, process of the sales interview. Restricted to: Community Colleges only.

#### BMGT 136. Forecasting Business Activity

#### 3 Credits (3)

Course covers the important elements of forecasting all types of business activities including inventory control, revenue forecasts, staffing, and other industry specific activities using metrics and data analysis processes. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110.

#### BMGT 138. Advertising

#### 3 Credits (3)

Psychological approach to non-personal consumer persuasion; applied techniques in media selection, layout mechanics, production methods, and campaign structures. Restricted to: Community Colleges only.

#### BMGT 140. Principles of Supervision I

#### 3 Credits (3)

Principles of supervision emphasizing planning, organization, rating of employees and procedures to develop good morale. Introduction to interpretation of case studies. Restricted to: Community Colleges only.

#### **BMGT 150. Income Taxation**

#### 3 Credits (3)

Federal income taxation of individuals, sole proprietorships, partnerships, corporations, trusts, and estates with particular reference to CLU, life insurance and annuities. Restricted to: Community Colleges only.

#### BMGT 155. Special Topics I

#### 1-3 Credits (1-3)

Introductory special topics of lower division level work that provides a variety of timely subjects and content material. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

#### BMGT 160. Self-Presentation and Etiquette

#### 3 Credits (3)

Introduction to business etiquette based on tradition, social expectations, and professional behavior standards. Restricted to: Community Colleges only.

#### BMGT 201. Work Readiness and Preparation

#### 3 Credits (3)

Instruction in methods of selection, seeking, acquiring and retaining employment. Addresses work success skills, business etiquette, employer expectation and workplace norms. Restricted to Community Colleges campuses only.

#### **BMGT 205. Customer Service in Business**

#### 3 Credits (3)

Establishes concepts of service quality in relationship to business success and maximization of returns to the organization. Explores techniques for delivering quality and service in a variety of business settings. Restricted to: Community Colleges only.

#### **BMGT 208. Business Ethics**

#### 3 Credits (3)

The course examines the underlying dimensions of ethics in business, investigating ethics in relationship to the organization, the stakeholders, and society. Exploration of ethical issues from a historical context, analyzing actual events through the lens of business decision making, including legal/political, sociocultural, economic, and environmental considerations will be undertaken. Restricted to Community Colleges campuses only.

#### BMGT 216. Business Math

#### 3 Credits (3)

Application of basic mathematical procedures to business situations, including percentage formula applications, markup, statement analysis, simple and compound interest, and annuities. Restricted to: Community Colleges only.

Prerequisite(s): CCDM 103 N or satisfactory math score on ACT.

#### BMGT 221. Internship I

#### 1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: BMGT majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

### BMGT 225. Introduction to Commercial Lending 3 Credits (3)

Commercial lending overview, the lending process, portfolio management, and regulation and business development. Restricted to: Community Colleges only.

Prerequisite(s): BMGT 112.

#### **BMGT 232. Personal Finance**

#### 3 Credits (3)

Budgeting, saving, credit, installment buying, insurance, buying vs. renting a home, income tax statement preparation, investment, and estate disposal through will and trust. Restricted to: Community Colleges only.

#### BMGT 236. Small Business Start-Up

#### 3 Credits (3)

Starting a small business is a complex endeavor that requires specialized knowledge. This course prepares students to take the first step in business ownership and operations. Restricted to Community Colleges campuses

#### **BMGT 237. Managing Small Businesses**

#### 3 Credits (3)

Managing a small business requires the owner/operator to be proficient in a number of skills and technical areas. This course provides small business owners/operators with the training and essential knowledge to manage a small business. Restricted to Community Colleges campuses

#### **BMGT 240. Human Relations**

#### 3 Credits (3)

Human interactions in business and industrial settings. Motivation and learning experiences as related to problems of the worker and supervisor. Practical applications of human behavior. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

#### BMGT 247. Customer Relationship Management

#### 3 Credits (3)

The course addresses the application of positive customer relationship practices and demonstrates the connection between managing excellent customer experiences and business success. Customer related decision making processes through the use of data based decision matrices are introduced. Restricted to Community Colleges campuses

### BMGT 248. Introduction to Quality Management 3 Credits (3)

Introductory practices of total quality management practices aimed at all levels of an organization to continually improve performance to include competitiveness in today s business world. Restricted to: Community Colleges only.

#### BMGT 250. Diversity in the Workplace

#### 3 Credits (3)

Concepts of culture, diversity, prejudice, and discrimination within the domestic workforce/society. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110.

#### **BMGT 260. Real Estate Practice**

#### 3 Credits (3)

This course is a requirement for licensure in real estate for the state of New Mexico. Topics covered include: real estate finance, settlement, foreclosure, federal taxation, valuation and appraisal, land descriptions and math skills. These topics are requirements of the New Mexico Real Estate Commission. Restricted to: Community Colleges only.

#### **BMGT 264. Real Estate Law**

#### 3 Credits (3)

This course is a requirement for licensure in real estate for the state of New Mexico. Topics covered include: ownership of real estate, real estate brokerage relationships, contracts, environmental concerns and federal laws that affect real estate. These topics are requirements of the New Mexico Real Estate Commission. Restricted to: Community Colleges only. Crosslisted with: PL S 264

#### **BMGT 272. E-Commerce Operations**

#### 3 Credits (3)

Includes the many forms of e-commerce and emerging technologies that will impact the business of tomorrow. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 105 or BCIS 1110.

### BMGT 277. Entrepreneurship II - Small Business Management 3 Credits (3)

This course is designed to acquaint the student with the opportunities encountered in the management and operations of a small business enterprise. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ENTR 1110.

### BMGT 280. Introduction to Human Resources 3 Credits (3)

Personnel functions encompassing job analysis, recruitment, selection, training, appraisals, discipline, and terminations. Prerequisite(S): BUSA 1110 or B A 104. Restricted to Community Colleges campuses only.

### BMGT 282. Introduction to International Business Management 3 Credits (3)

Overview of the social, economic and cultural environment of international business transactions. Restricted to Community Colleges only.

Prerequisite(s): BUSA 1110.

### BMGT 285. Introduction to Manufacturing Operations 3 Credits (3)

Introduction to issues related to manufacturing, including an overview of the production function, product design and development, location, layout, forecasting, planning, purchasing, materials/inventory, and quality management. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110 and (BMGT 140 or MGMT 2110).

### BMGT 286. Introduction to Logistics

3 Credits (3)

Overview on the planning, organizing, and controlling of transportation, inventory maintenance, order processing, purchasing, warehousing, materials, handling, packaging, customer service standards, and product scheduling. Restricted to: Community Colleges only.

### BMGT 287. Introduction to Export/Import 3 Credits (3)

Procedures and documentation for exporting and importing products. Emphasis on NAFTA regulations and other U.S. border operations crossings. Restricted to Community Colleges only.

Prerequisite(s): BUSA 1110.

### BMGT 290. Applied Business Capstone 3 Credits (3)

Refines skills and validates courses taken in BMGT program. Business simulations, case studies and projects used to test and improve business practices. Student must be within 25 credits of graduation. May be repeated up to 3 credits. Restricted to: BMGT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110, and (BMGT 140 or MGMT 2110), and (BMGT 240 or SOCI 1110G or PSYC 1110G), and MKTG 2110 and BFIN 2110.

#### **BMGT 298. Independent Study**

3 Credits (3)

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Sophomore standing with 3.0 GPA.

# **Business Management - Associate of Applied Science**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Choose one course to of 12-14 credits. 1, 2	from four of the following six content areas for a total	12-14
Area I: Commun	ications	
Area II: Mathem	atics	
Area III: Laborat	ory Science	
Area IV: Social/E	Behavioral Sciences	
Area V: Humanit	ies	
Area VI: Creative	e and Fine Arts	
General Education Elective <sup>2</sup>		3-4
Related Requirements		
ACCT 2110	Principles of Accounting I	3
or OATS 120	Accounting Procedures I	

BMGT 140	Principles of Supervision I	3
or MGMT 2110	Principles of Management	
BUSA 1110	Intro to Business	3
MKTG 2110	Principles of Marketing	3
BFIN 2110	Introduction to Finance	3
OATS 106	Business Mathematics	3
or MATH 1215	Intermediate Algebra	
Choose one from the	following:	3
OECS 215	Spreadsheet Applications	
OECS 220	Database Application and Design	
OATS 207	Machine Transcription	
OATS 211	Information Processing I	
<b>Technical Requireme</b>	nts	
BMGT 201	Work Readiness and Preparation	3
BMGT 221	Internship I	3
BLAW 2110	Business Law I	3
or BLAW 316	Legal Environment of Business	
BMGT 290	Applied Business Capstone	3
General Management	Courses	
Select four from the f	following:	12
BMGT 248	Introduction to Quality Management	
BMGT 250	Diversity in the Workplace	
BMGT 277	Entrepreneurship II - Small Business Management	
BMGT 280	Introduction to Human Resources	
BMGT 282	Introduction to International Business Management	
BMGT 285	Introduction to Manufacturing Operations	
DI ACT COC	Introduction to Logistics	
BMGT 286		
BMGT 286 BMGT 287	Introduction to Export/Import	

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course First Year	Title	Credits
Fall		
ACCT 2110 or OATS 120	Principles of Accounting I or Accounting Procedures I	3
BUSA 1110	Intro to Business	3
BMGT 201	Work Readiness and Preparation	3
GEN Ed Course - One o	ourse from Areas I-VI <sup>1, 2</sup>	3
GEN Ed Course - One of	ourse from Areas I-VI <sup>1, 2</sup>	3
	Credits	15
Spring		
BMGT 140 or MGMT 2110	Principles of Supervision I or Principles of Management	3
OATS 106 or MATH 1215	Business Mathematics or Intermediate Algebra	3
GEN Ed Course - One o	ourse from Areas I-VI <sup>1, 2</sup>	3-4

GEN Ed Course - One course from Areas I-VI <sup>1, 2</sup> Choose one from the following:  OECS 215 Spreadsheet Applications	3-4 3
3	3
OECS 215 Spreadsheet Applications	
opicadonect/tppiloations	
OECS 220 Database Application and Design	
OATS 207 Machine Transcription	
OATS 211 Information Processing I	
Credits	15-17
Second Year	
Fall	
BLAW 2110 Business Law I	3
or BLAW 316 or Legal Environment of Business	
General Education Elective - Any 'G' course <sup>2</sup>	3-4
BFIN 2110 Introduction to Finance	3
General Management course <sup>3</sup>	3
General Management course <sup>3</sup>	3
Credits	15-16
Spring	
BMGT 221 Internship I	3
MKTG 2110 Principles of Marketing	3
BMGT 290 Applied Business Capstone	3
General Management course <sup>3</sup>	3
General Management course <sup>3</sup>	3
Credits	15
Total Credits	60-63

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses
- <sup>3</sup> General Management Courses
  - BMGT 248 Introduction to Quality Management
  - BMGT 250 Diversity in the Workplace
  - BMGT 277 Entrepreneurship II Small Business Management
  - BMGT 280 Introduction to Human Resources
  - · BMGT 282 Introduction to International Business Management
  - BMGT 285 Introduction to Manufacturing Operations
  - · BMGT 286 Introduction to Logistics
  - · BMGT 287 Introduction to Export/Import

### **Business Office Technology**

The Business Office Technology program is for students interested in acquiring or updating skills for employment in an office environment. The curriculum covers basic computer skills as well as software programs such as word processing and spreadsheet applications, record keeping, filing, or database management. At the certificate level, students may complete a Certificate of Business Office Technology. The Associate degree offers concentrations in Accounting and Administrative Assistant. At the certificate level, students my complete a Certificate of Business Office Technology.

### **Graduation Requirements**

Certificate in Business Office Technology: WorkKeys® scores of level 4 in Reading for Information, Locating Information, and Applied Mathematics; cumulative GPA of 2.0 or higher. A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must

be completed at NMSU or one of its community colleges. Individual academic program may have additional requirements.

Associate of Applied Science in Business Office Technology: ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Business Office Technology - Certificate (p. 118)

Gainful Employment Disclosure: Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following <u>Gainful Employment Disclosure</u>

Business Office Technology (Accounting) - Associate of Applied Science (p. 117)

Business Office Technology (Administrative Assistant) - Associate of Applied Science (p. 117)

#### **BOT 298. Independent Study**

#### 1-3 Credits

Individual studies directed by consenting faculty with prior approval of department head. May be repeated for a maximum of 3 credits. **Prerequisite:** sophomore standing with 3.0 GPA.

#### OATS 101. Keyboarding Basics

#### 3 Credits (2+2P)

Covers the skills necessary to touch type on the computer keyboard using correct techniques. This includes the development of speed, accuracy, and formatting of basic business documents. May be repeated up to 3 credits. Restricted to Community Colleges campuses

### OATS 102. Keyboarding: Document Formatting 3 Credits (2+2P)

Designed to improve keyboarding speed and accuracy; introduce formats of letters, tables and reports. A speed and accuracy competency requirement must be met.

Prerequisite: OATS 101 or consent of instructor.

#### OATS 105. Business English

#### 3 Credits (3)

Training and application of the fundamentals of basic grammar, capitalization, punctuation, basic writing, sentence structure, and editing skills. May be repeated up to 3 credits. Restricted to Community Colleges campuses

#### **OATS 106. Business Mathematics**

#### 3 Credits (2+2P)

Mathematical applications for business. May be repeated up to 3 credits. Restricted to Community Colleges campuses

**Prerequisite(s):** CCDM 103 N or adequate score on math placement exam.

#### **OATS 110. Records Management**

#### 3 Credits (3)

Principles, methods and procedures for the selection, operation and control of manual and automated records systems.

#### OATS 120. Accounting Procedures I

#### 3 Credits (2+2P)

Business accounting principles and procedures. Use of special journals, cash control, and merchandising concepts. Reports for sole proprietorships.

### OATS 121. Accounting Procedures II 3 Credits (2+2P)

Continuation of OATS 120, emphasizing accounting principles and procedures for notes and interest, depreciation, partnerships and corporations, cash flow and financial statement analysis. May be repeated up to 3 credits. Restricted to Community Colleges campuses only

Prerequisite(s): OATS 120 or ACCT 2110.

#### **OATS 140. Payroll Accounting**

#### 3 Credits (2+2P)

Payroll procedures including payroll tax forms and deposits. May be repeated up to 3 credits. Restricted to Community Colleges campuses only

Prerequisite(s): ACCT 2110 or OATS 120.

#### OATS 150. Medical Terminology

#### 3 Credits (3)

Understanding of the basic elements of medical words. Use of medical abbreviations. Same as NURS 150 and OEHO 120. May be repeated up to 3 credits. Crosslisted with: NURS 150, AHS 120 and HIT 150. Restricted to Community Colleges campuses only.

### OATS 169. Spanish Grammar for Business Administration 3 Credits (3)

Introductory course in Spanish grammar and practical business terms required for the proper application of fundamental oral and written business communication skills for Spanish speakers in the field of business administration. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Spanish-speaking ability and computer keyboarding ability.

### OATS 170. Office Communications in Spanish I 3 Credits (3)

Develop oral and written communications skills of native or near-native speakers of Spanish. The student will learn basic letter writing skills, customer service techniques, and telephone etiquette in Spanish. Spanish speaking ability is required to enroll in this course. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses

### OATS 171. Office Communications in Spanish II 3 Credits (3)

Develop oral and written communications skills of native or nearnative speakers of Spanish. Emphasis placed on learning the office assistant's role within the office environment. Compose complex business correspondence and learn to make international travel arrangements. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s): OATS 170, Spanish speaking ability.

#### OATS 191. Taking Minutes & Proofreading

#### 3 Credits (3)

Preparation and practice producing minutes suited for different meeting types and purposes. Provides strategies to prepare for meetings, to record proceedings, and to transcribe minutes while incorporating proofreading skills practice. Topics include legal requirements, meeting types, minute formats, and duties/expectations of the minute taker and the meeting chair. Graded: S/U. May be repeated up to 3 credits. Restricted to Community Colleges campuses

### OATS 202. Keyboarding Document Production 3 Credits (2+2P)

Further development of keyboarding speed and accuracy. Production of complex letters, memos, tables, reports and business forms. A speed and accuracy competency requirement must be met. Restricted to Community Colleges campuses

### OATS 203. Office Equipment and Procedures I 3 Credits (2+2P)

Office organization, telephone techniques, equipment and supplies, handling meetings, human relations, mail procedures, and travel. May be repeated up to 3 credits. Restricted to Community Colleges campuses

#### OATS 205. Accounting Software I

#### 3 Credits (2+2P)

Introduction to accounting software. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Working knowledge of computers and accounting or consent of instructor.

### OATS 206. Accounting Software II 3 Credits (2+2P)

Accounting software and office applications. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** OATS 121 or OATS 215.

### OATS 207. Machine Transcription

#### 3 Credits (2+2P)

Creating office documents using transcribing equipment and word processing software. Emphasis on proofreading, editing and grammar. May be repeated up to 3 credits. Restricted to Community Colleges campuses

Prerequisite(s): BOT 105.

#### **OATS 208. Medical Office Procedures**

#### 3 Credits (2+2P)

Current computerized and traditional administrative medical office procedures will be introduced. Practical knowledge on managing required record keeping in a medical office environment will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s):** HIT 150 or AHS 120, and computer keyboarding ability or consent of instructor.

### OATS 209. Business and Technical Communications 3 Credits (3)

Effective written communication skills and techniques for career success in the work place. Composition of letters, memos, short reports, forms, and proposals, and technical descriptions and directions.

**Prerequisites:** ENGL 1110G and computer keyboarding ability or consent of instructor.

#### OATS 211. Information Processing I

#### 3 Credits (2+2P)

Defining and applying fundamental information processing concepts and techniques using the current version of leading software. May be repeated up to 6 credits. Restricted to Community Colleges campuses

#### OATS 213. Word Processing I

#### 3 Credits (2+2P)

Operation and function of a word processor. Specific equipment to be announced in the Schedule of Classes.

Prerequisite: OATS 101 or keyboarding proficiency.

#### OATS 214. Word Processing II

#### 3 Credits (2+2P)

Advanced operation and functions of a word processor. Specific equipment to be announced in the Schedule of Classes.

Prerequisite: OATS 213 or consent of instructor.

#### **OATS 215. Spreadsheet Applications**

#### 1-3 Credits

Use of spreadsheets to include graphics and business applications. Same as OECS 215. May be repeated under different subtitles listed in the Schedule of Classes.

#### **OATS 217. Powerpoint Presentation**

#### 3 Credits (3)

Comprehensive, hands-on approach to learning and applying basic and advanced features of PowerPoint. These include text enhancements, objects, fills, colors, animation, charts, sound, video, and hyperlinks. Students demonstrate appropriate audience and communication tools to deliver presentations.

**Prerequisites:** OATS 211 or ability to demonstrate keyboarding and Windows proficiency.

#### **OATS 218. Information Processing II**

#### 3 Credits (2+2P)

Advanced information processing techniques using current version of leading software. May be repeated for a maximum of 6 credits.

Prerequisite: OATS 211 or consent of instructor.

### OATS 220. Internship in Business Office Technology 2 Credits (2)

Experience in a supervised office position. Student must work at least eight hours per week. May be repeated for a maximum of 4 credits. **Prerequisites:** sophomore standing and consent of instructor.

#### OATS 221. Internship I

#### 1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. C- or better in the course is required. Consent of Instructor required. Restricted to: BOT,HIT. majors. Restricted to Community Colleges campuses

#### OATS 222. Internship II

#### 1-3 Credits

Continuation of OATS 221. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: OATS & HIT majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. **Prerequisite(s):** OATS 221 and consent of instructor.

#### OATS 223. Medical Transcription I

#### 3 Credits (2+2P)

Concepts in medical transcription are introduced on how to produce a variety of reports required in a medical office or facility utilizing accurate medical terminology, spelling, grammar, and document formatting. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 150 or AHS 120 and HIT 158 and OATS 209.

#### **OATS 228. Medical Insurance Billing**

#### 3 Credits (2+2P)

Comprehensive overview of the insurance concepts and applications required for successfully and accurately completing and submitting insurance claims and reimbursement processes for various insurance carriers, both private and government, will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s)**: HIT 150 or AHS 120.

#### OATS 233. Advanced Medical Transcription

#### 3 Credits (2+2P)

Builds upon the concepts introduced in Medical Transcription I providing greater understanding of how to produce advanced reports dictated by physicians with increasing speed and accuracy. Emphasis will be on proofreading and editing of operative reports, patient history and physicals, office notes, labor and delivery reports, consultation reports, discharge summaries, and other medical reports. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 223 and HIT 130.

#### **OATS 239. Personal Development**

#### 3 Credits (3)

Development of a marketable, employable office systems person, to include interview, voice, manners, and apparel.

#### **OATS 240. Introduction to Individual Taxation**

#### 3 Credits (3)

Overview of Individual Federal Taxation; awareness of tax problems pitfalls and planning opportunities; focus on individual personal financial concerns and tax planning. One semester of accounting principles/procedures is recommended.

#### OATS 241. Auditing and Business Issues

#### 3 Credits (3)

Introduction to basic auditing concepts, the purpose for the auditing process, and requirements of persons assisting with the audit process. The course will also deal with issues of business law including contracts, sales, torts, strict liability, and business ethics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 120 or ACCT 2110.

#### OATS 244. Tax Preparation

#### 3 Credits (3)

Introduces basic federal and state tax codes for preparing individual income tax returns. Emphasis on use of tax software.

Prerequisite: keyboarding proficiency.

### OATS 250. Electronic Office Systems

#### 3 Credits (2+2P)

Management of the electronic office. Office use of computers, printers, fax machines, copiers, and scanner concepts will be covered.

Prerequisite: OATS 211.

#### OATS 255. Special Topics

#### 1-4 Credits

Specific subjects to be announced in the Schedule of Classes.

### OATS 260. Bookkeeping Simulation Capstone 3 Credits (2+2P)

Refines the professional and technical skills students have learned while completing the Bookkeeping Assistant Option curriculum by demonstrating how coursework ties together. Designed as a bookkeeping assistant capstone course.

**Prerequisite(s):** OATS 121 or ACCT 2110, OATS 140, OATS 205, and OATS 244, or consent of instructor.

### OATS 270. Office Administration Technology Capstone 3 Credits (2+2P)

Refines professional skills learned in the BOT program and ties all BOT coursework together. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s): OATS 102 or OATS 129; and OATS 120; and OAT S 209 or ENGL 2210G; and OATS 211 or OECS 211.

### Business Office Technology (Accounting) - Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Choose one course fro of 12-14 credits <sup>1, 2</sup>	om four of the following six content areas for a total	12-14
Area I: Communic	eations	
Area II: Mathema	tics	
Area III: Laborato	ry Science	
Area IV: Social/Be	ehavioral Sciences	
Area V: Humanitie	es	
Area VI: Creative	and Fine Arts	
General Education Ele	ective <sup>2</sup>	3-4
Core Requirements		
Technical Requiremen	nts	
ACCT 200	A Survey of Accounting	3
OATS 102	Keyboarding: Document Formatting	3
OATS 105	Business English	3
OATS 106	Business Mathematics	3
OATS 110	Records Management	3
OATS 239	Personal Development	3
or BMGT 201	Work Readiness and Preparation	
OATS 270	Office Administration Technology Capstone	3
OECS 211	Word Processing Applications	3
OECS 215	Spreadsheet Applications	3
Additional Business F	Related Courses	
BLAW 2110	Business Law I	3
BUSA 1110	Intro to Business	3
<b>Major Requirements</b>		
<b>Concentrations Cour</b>	sework	
ACCT 2110	Principles of Accounting I	3
ACCT 2120	Principles of Accounting II	3
BMGT 150	Income Taxation	3
OECS 200	Accounting on Microcomputers	3
Total Credits		60-63

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course First Year	Title	Credits
Fall		
OATS 102	Keyboarding: Document Formatting	3
OATS 106	Business Mathematics	3
BUSA 1110	Intro to Business	3
GEN Ed Course - On	ie course from Areas I-VI <sup>1, 2</sup>	3
	ie course from Areas I-VI <sup>1, 2</sup>	3
	Credits	15
Spring		
ACCT 200	A Survey of Accounting	3
OATS 110	Records Management	3
GEN Ed Course - On	e course from Areas I-VI <sup>1, 2</sup>	3-4
OECS 211	Word Processing Applications	3
OECS 215	Spreadsheet Applications	3
	Credits	15-16
Second Year		
Fall		
OATS 105	Business English	3
GEN Ed Course - On	e course from Areas I-VI <sup>1, 2</sup>	3-4
OATS 239 or BMGT 201	Personal Development or Work Readiness and Preparation	3
General Education E	lective - Any 'G' course <sup>2</sup>	3-4
ACCT 2110	Principles of Accounting I	3
	Credits	15-17
Spring		
BLAW 2110	Business Law I	3
ACCT 2120	Principles of Accounting II	3
BMGT 150	Income Taxation	3
OATS 270	Office Administration Technology Capstone	3
OECS 200	Accounting on Microcomputers	3
	Credits	15
	Total Credits	60-63

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

### Business Office Technology (Administrative Assistant) -Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
<b>General Education</b>		
Choose one course from of 12-14 credits <sup>1, 2</sup>	m four of the following six content areas for a total	12-14
Area I: Communic	ations	
Area II: Mathemat	ics	
Area III: Laborator	y Science	
Area IV: Social/Be	havioral Sciences	
Area V: Humanitie	s	
Area VI: Creative a	and Fine Arts	
General Education Ele	ctive <sup>2</sup>	3-4
Core Requirements		
Technical Requiremen	ts	
ACCT 200	A Survey of Accounting	3
OATS 102	Keyboarding: Document Formatting	3
OATS 105	Business English	3
OATS 106	Business Mathematics	3
OATS 110	Records Management	3
OATS 239	Personal Development	3
or BMGT 201	Work Readiness and Preparation	
OATS 270	Office Administration Technology Capstone	3
OECS 211	Word Processing Applications	3
OECS 215	Spreadsheet Applications	3
Additional Business R	elated Courses	
BLAW 2110	Business Law I	3
BUSA 1110	Intro to Business	3
<b>Major Requirements</b>		
Concentrations Cours	sework	
OATS 202	Keyboarding Document Production	3
OATS 191	Taking Minutes & Proofreading	3
OECS 280	Desktop Publishing I	3
or FDMA 1120	Desktop Publishing	
OECS 220	Database Application and Design	3
Total Credits		60-63

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
BUSA 1110	Intro to Business	3
OATS 102	Keyboarding: Document Formatting	3
OATS 106	Business Mathematics	3
GEN Ed Course – One	course from Areas I-VI <sup>1, 2</sup>	3
GEN Ed Course – One	course from Areas I-VI <sup>1, 2</sup>	3
	Credits	15
Spring		
ACCT 200	A Survey of Accounting	3
OATS 110	Records Management	3

GEN Ed Course – Or	ne course from Areas I-VI <sup>1, 2</sup>	3-4
OECS 211	Word Processing Applications	3
OECS 215	Spreadsheet Applications	3
	Credits	15-16
Second Year		
Fall		
OATS 105	Business English	3
GEN Ed Course – Or	ne course from Areas I-VI <sup>1, 2</sup>	3-4
OATS 239 or BMGT 201	Personal Development or Work Readiness and Preparation	3
General Education E	lective - Any 'G' course <sup>2</sup>	3-4
OECS 280 or FDMA 1120	Desktop Publishing I or Desktop Publishing	3
	Credits	15-17
Spring		
BLAW 2110	Business Law I	3
OATS 270	Office Administration Technology Capstone	3
OATS 202	Keyboarding Document Production	3
OATS 191	Taking Minutes & Proofreading	3
OECS 220	Database Application and Design	3
	Credits	15
	Total Credits	60-63

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

# **Business Office Technology - Certificate**

Prefix	Title	Credits
Core Curriculum Re	quirements	
ACCT 200	A Survey of Accounting	3
BUSA 1110	Intro to Business	3
ENGL 1110G	Composition I	4
ENGL 2210G	Professional & Technical Communication	3
OATS 102	Keyboarding: Document Formatting	3
OATS 106	Business Mathematics	3
OATS 110	Records Management	3
OECS 211	Word Processing Applications	3
OECS 215	Spreadsheet Applications	3
Choose one from th	e following:	3
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
Total Credits		31

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
OATS 102	Keyboarding: Document Formatting	3

OATS 106	Business Mathematics	3
BUSA 1110	Intro to Business	3
Choose one from the	following:	3
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
ENGL 1110G	Composition I	4
	Credits	16
Spring		
ACCT 200	A Survey of Accounting	3
OATS 110	Records Management	3
ENGL 2210G	Professional & Technical Communication	3
OECS 211	Word Processing Applications	3
OECS 215	Spreadsheet Applications	3
	Credits	15
	Total Credits	31

# Computer and Information Technology

The **Certificate in Microcomputer Applications** is designed for students interested in microcomputer operations and systems. Upon completion, students are prepared to take the Microsoft Office Specialist certification exams in Word and Excel.

The Associate of Applied Science Degree in Computer and Information Technology equips students for employment which involves the analysis and design of computerized information and management decision systems. Graduates of the program are prepared to take the CompTIA A+certification exam which demonstrates competency in the maintenance of PCs, mobile devices, operating systems and printers. The program is broken down into three concentrations. Students must take 15 credit hours in one of the following concentrations to obtain their degree in that field: IT Specialist Concentration, Networking Concentration or Programming Concentration.

### **Graduation Requirements**

Certificate in Microcomputer Applications: WorkKeys® scores of level 5 in Reading for Information, level 4 in Locating Information, and level 5 in Applied Mathematics; cumulative GPA of 2.0 or higher. A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic program may have additional requirements.

AAS in Computer and Information Technology: ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Microcomputer Applications - Certificate (p. 125)

Gainful Employment Disclosure: Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following Gainful Employment Disclosure

Computer and Information Technology (IT Specialist) - Associate of Applied Science (p. 122)

Computer and Information Technology (Networking) - Associate of Applied Science (p. 123)

Computer and Information Technology (Programming) - Associate of Applied Science (p. 124)

#### OECS 101. Computer Basics

#### 1 Credit (1)

Hands-on instruction to introduce computer use and commonly used software. Graded S/U.

### OECS 105. Introduction to Information Technology 3 Credits (3)

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communication, data analysis, information management and decision-making. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### OECS 110. Introduction to Power Point 1-3 Credits (1-3)

An introduction to Power Point software to develop business presentations. Includes concepts of basic presentation methods and graphic design principles. Students will create and deliver presentations using text, charts, digitized images, and sound. Restricted to Community Colleges campuses only.

#### **OECS 125. Operating Systems**

#### 1-3 Credits

Installation, configuration and optimization of current operating systems. Restricted to: Community Colleges only.

### OECS 128. Operating Systems Linux/Unix 3 Credits (3)

Installation, configuration, and use of Linux/Unix operating system software and utilities including hardware management, file management, use of command line, and scripting. Restricted to: Community Colleges only.

### OECS 140. Introduction to Game Production Industry 1-3 Credits (1-3)

Students explore the business behind game production, understanding how game companies are organized and funded, positions within the game industry, and what skills game producers need. Restricted to Community Colleges campuses only.

### OECS 141. Introduction to Interactive Game Programming 1-3 Credits (1-3)

This introductory programming class reviews the basics of programming, including the object-oriented approach. Students will de-construct existing games, develop their own code, and gain an appreciation for coding strategies. May be repeated for a maximum of 6 credits. Restricted to Community Colleges campuses only.

### OECS 145. Mobile Application Development 1-3 Credits (1-3)

Introduction to elements of mobile application coding including concepts, design strategies, tools needed to create, test and deploy applications for mobile devices. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

### OECS 155. Special Topics - Introductory Computer Technology 0.5-4 Credits (.5-4)

Topics to be announced in the Schedule of Classes. May be repeated up to 8 credits.

#### OECS 185. PC Maintenance and Repair I

#### 1-3 Credits

Introduction to most common types of PC configurations, installations, and failures. This course will explore troubleshooting skills for maintaining and repairing common hardware and software related problems. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

#### OECS 192. C++ Programming I

#### 3 Credits (3)

Development of skills in programming using the C++ programming language. Restricted to: Community Colleges only.

#### **OECS 195. Java Programming I**

#### 1-3 Credits

Developing of skills in programming using the Java programming language. Restricted to: Community Colleges only.

#### OECS 200. Accounting on Microcomputers

#### 3 Credits (3)

Fundamental accounting principles using popular microcomputer soft ware to include G/L, A/R, A/P, purchase order, billing, inventory, and forecasting modules.

Prerequisite: ACCT 2110 or OATS 121.

#### **OECS 204. Linux Operating System**

#### 1-3 Credits

Install and configure the Linux operating system on X86 systems. Covers issues involved in maintaining operating system, networking, creating and managing users, and installing and updating software. General procedures for working with operating system includes maintaining disk space, preserving system security, and other related topics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### OECS 205. Advanced Operating Systems: Administration 3 Credits (3)

Examines operating systems designed for PC, minicomputers and mainframes. Covers maintaining operating systems, creating and managing users, and installing and updating software. General procedures for working with operating systems will include maintaining disk space, preserving system security, providing mail services, among other topics. May be repeated for a maximum of 6 credits.

### Prerequisite: OECS 128. OECS 207. Windows

#### 0.5-3 Credits

Covers local installation, configuration of core local services, managing users, and the general local management and maintenance of Windows workstations. May be repeated up to 6 credits.

Prerequisite(s)/Corequisite(s): OECS 185. Restricted to Community Colleges campuses only.

#### **OECS 208. Internet Applications**

#### 1-3 Credits

Survey of the Internet to include e-mail, file transfer, current search techniques, the World Wide Web and basic Web page development. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

#### **OECS 209. Computer Graphic Arts**

#### 1-3 Credits

Basic graphics composition using computer programs to include editing and manipulating graphic images, clip-art, and printing of pictures. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes.

Prerequisite: OECS 105, BCIS 1110, or OECS 101.

#### **OECS 211. Word Processing Applications**

#### 1-3 Credits

Basic word processing to include composing, editing, formatting, and printing of documents. May be repeated under different subtitles listed in the Schedule of Classes for a maximum of 6 credits.

Prerequisites: BCIS 1110 or OECS 105.

#### **OECS 215. Spreadsheet Applications**

#### 1-3 Credits

Use of spreadsheets to include graphics and business applications. May be repeated for a maximum of 6 credits.

Prerequisites: BCIS 1110 or OECS 105.

#### OECS 216. Programming for the Web

#### 3 Credits (3)

Designing web-based applications using appropriate programming language(s) such as, but not limited to HTML, PHP, MySQL, SQL, Java, Perl, C or C++. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): One semester of any programming course.

#### OECS 220. Database Application and Design

#### 1-3 Credits

Creating, sorting, and searching of single and multifile databases to include report generation and programming database commands. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes. Restricted to: Community Colleges only.

Prerequisite(s): BCIS 1110 OR ET 120 OR ET 122 OR OECS 105.

#### OECS 221. Internship I

#### 1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

#### OECS 222. Internship II

#### 1-3 Credits

Continuation of OECS 221. Each credit requires specified number of hours of on-the-job work experience. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 221 and consent of instructor.

### OECS 227. Computer Applications for Technicians 3 Credits (3)

Computer applications for service technicians in various disciplines. Hardware and software applications explored. Includes operating systems, high level programming, and networking hardware and software.

#### **OECS 230. Data Communications and Networks I**

#### 1-3 Credits

Definition of data communication; survey of hardware applications and teleprocessor software; examination and design of networks. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 185.

#### **OECS 231. Data Communications and Networks II**

#### 1-3 Credits

Installation and application of popular microcomputer network software. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 230.

OECS 234. Linux Server

#### 3-4 Credits (3-4)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Linux Server(s). It provides in-depth, hands-on training for planning, implementation, management and support of Linux networking services. May be repeated up to 8 credits.

**Prerequisite(s)/Corequisite(s):** OECS 204. Restricted to: OECS majors. Restricted to Community Colleges campuses only.

#### OECS 235. Structured Query Language (SQL)

#### 1-3 Credits

Installation, configuration, administration, and troubleshooting of SQL client/server database management system. May be repeated up to 3 credits

Prerequisite(s)/Corequisite(s): OECS 220. Restricted to Community Colleges campuses only.

#### **OECS 237. Windows Server**

#### 3-4 Credits (3-4)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Microsoft Windows Server Active Directory Domain Services in medium to large businesses. It provides in-depth, hands-on training for Information Technology (IT) professionals responsible for the planning, implementation, management, and support of Windows Active Directory services. May be repeated up to 4 credits

**Prerequisite(s)/Corequisite(s):** OECS 207. Restricted to Community Colleges campuses only.

#### OECS 245. Game Programming I

#### 3 Credits (3)

Development of programming skills for games and animation using current programming languages and tools. May be repeated for a maximum of 6 credits.

Prerequisite: consent of instructor.

#### **OECS 246. Game Programming II**

#### 3 Credits (3)

Continuation of OECS 245. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 245.

#### OECS 250. Systems Analysis and Design I

#### 3 Credits (3)

Analysis, configuration, design and testing of organizations' work flow as it relates to hardware, software, data, procedures and personnel. Systems Life Cycle approach matching end users' needs to feasible financial, technical and operational solutions. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 220.

#### **OECS 255. Special Topics**

#### 1-4 Credits

Topics to be announced in the Schedule of Classes.

#### OECS 260. Hypertext Markup Language (HTML)

#### 1-3 Credits

Coverage of HTML as used for web-page development for Internet and Intranet. Text manipulation, graphics, hypertext links, lists, and tables. May be repeated for a maximum or 3 credits.

Prerequisite: BCIS 1110 or OECS 105.

#### **OECS 261. Introduction to Networks**

#### 3-4 Credits (3-4)

Introduction to networking principles including the practical and conceptual skills for understanding basic networking, planning and designing networks, implementing IP addressing schemes, examining the OSI and TCP/IP layers, and performing basic configurations for routers and switches. Aligns to the first course of the Cisco Networking Academy CCNA curriculum. Restricted to Community Colleges campuses only.

#### OECS 262. Essentials of Routing and Switching

#### 3-4 Credits (3-4)

Examination of the architecture, components, and operations of routers and switches in a small network. Student will learn how to configure, verify and troubleshoot: routers and switches, static routing, default routing, VLANs, and ACLs. Aligns to the second course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits. **Prerequisite(s)/Corequisite(s):** OECS 261. Restricted to Community Colleges campuses only.

#### **OECS 263. Network Fundamentals**

#### 3-4 Credits (3-4)

Fundamentals of networking architecture, components, and operations including practical and conceptual skills using routers and switches. Student will learn how to configure, verify and troubleshoot static routing, default routing, VLANs, and ACLs. This course aligns to the third course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OECS 262. Restricted to Community Colleges campuses only.

#### OECS 264. Network Routing Protocols

#### 3-4 Credits (3-4)

Fundamentals of routing protocols for troubleshooting advanced network operations. Covers common networking issues such as RIP, OSPF, and EIGRP for IPv4 and IPv6 networks. This course aligns to the fourth course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits

Prerequisite(s)/Corequisite(s): OECS 263. Restricted to Community Colleges campuses only.

#### **OECS 269. Network Security**

#### 3-4 Credits (3-4)

Fundamentals of design and implementation of network security solutions that will reduce the risk of system vulnerability. May be repeated up to 8 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 204 or OECS 207 or OECS 261 or consent of instructor.

#### OECS 275. PC Maintenance and Repair II

#### 1-3 Credits

Continuation of OECS 185. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 185.

#### OECS 280. Desktop Publishing I

#### 3 Credits (3)

Design and production of publication materials to fill the needs of business communities, using a microcomputer. May be repeated for a maximum of 6 credits. Same as OATS 280.

Prerequisites: either BCIS 1110, OECS 105.

#### OECS 290. Computer Technology Capstone

#### 1-3 Credits

Refines skills learned in the OECS program. Culminates in a review and practice of advanced software applications. May be repeated up to 3 credits. Restricted to: OECS & OECT majors. Restricted to Community Colleges campuses only.

**Prerequisite(s):** (OECS 125, OECS 128, OECS 207, OR OECS 203) AND (OECS 185 OR E T 283).

#### **OECS 299. Independent Study**

#### 1-3 Credits

Specific subjects to be determined based on need. Restricted to: Community Colleges only.

### Computer and Information Technology (IT Specialist) -Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60-64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

General Education	
General Education	
Choose one course from four of the following six content areas for a total of 12-14 credits. 1,2	-14
Area I: Communications	
Area II: Mathematics	
Area III: Laboratory Science	
Area IV: Social/Behavioral Sciences	
Area V: Humanities	
Area VI: Creative and Fine Arts	
General Education Elective <sup>2</sup>	3-4
Core Requirements	
Select one from the following:	3
BCIS 1110 Introduction to Information Systems	
ET 120 Computation Software	
MATH 1215 Intermediate Algebra (or Approved technology- related math course)	3
OECS 220 Database Application and Design	3
Business/Computer Electives	
Select one from the following:	3
ACCT 2120 Principles of Accounting II	
BCIS 1110 Introduction to Information Systems	
BFIN 2110 Introduction to Finance	
BUSA 1110 Intro to Business	
ET 120 Computation Software	
MGMT 2110 Principles of Management	
MKTG 2110 Principles of Marketing	
Approved programming-related course	3
Major Requirements	

#### **Technical Requirements**

Total Credits		60-64
Approved computer	-related courses	15
Concentration Cours	ework	
ET 155	Network Operating Systems I	
ET 153	Introduction to Computer Networks	
OECS 261	Introduction to Networks	
Select 3-4 credits fr	om the following:	3-4
or OECS 290	Computer Technology Capstone	
OECS 250	Systems Analysis and Design I	3
OECS 207	Windows	3
OECS 227	Computer Applications for Technicians	
OECS 185	PC Maintenance and Repair I	
E T 283	Hardware PC Maintenance	
Select 3 credits from	n the following:	3
OECS 128	Operating Systems Linux/Unix	3

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course First Year	Title	Credits
GEN Ed course - One o	ourse from Areas I-VI <sup>1, 2</sup>	3
MATH 1215	Intermediate Algebra (or alternate)	3
Select one from the fo	llowing:	3
BCIS 1110	Introduction to Information Systems	
ET 120	Computation Software	
Concentration course	3	3
Approved programmin	g-related course	3
	Credits	15
Spring		
GEN Ed course - One of	ourse from Areas I-VI <sup>1, 2</sup>	3
GEN Ed course - One of	ourse from Areas I-VI <sup>1, 2</sup>	3-4
OECS 128	Operating Systems Linux/Unix	3
OECS 207	Windows	3
Concentration course	3	3
	Credits	15-16
Second Year		
Fall		
OECS 220	Database Application and Design	3
Select one from the fo	llowing:	3
ET 283	Hardware PC Maintenance	
OECS 185	PC Maintenance and Repair I	
OECS 227	Computer Applications for Technicians	
Choose one from the f	following:	3-4
ET 153	Introduction to Computer Networks	
ET 155	Network Operating Systems I	
OECS 261	Introduction to Networks	
Concentration course	3	3

Business/Compute	r elective Course <sup>4</sup>	3
	Credits	15-16
Spring		
GEN Ed course - On	e course from Areas I-VI <sup>1, 2</sup>	3-4
General Education	Elective - Any 'G' course <sup>2</sup>	3-4
OECS 250 or OECS 290	Systems Analysis and Design I or Computer Technology Capstone	3
Concentration cour	rse <sup>3</sup>	3
Concentration cour	se <sup>3</sup>	3
	Credits	15-17
	Total Credits	60-64

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- 3 See the Requirements Tab (p. 122) for specific courses.
- Business/Computer Electives:
  - · ACCT 2120 Principles of Accounting II
  - · BCIS 1110 Introduction to Information Systems
  - · BUSA 1110 Intro to Business
  - · ET 120 Computation Software
  - · BFIN 2110 Introduction to Finance
  - · MGMT 2110 Principles of Management
  - · MKTG 2110 Principles of Marketing

### Computer and Information Technology (Networking) - Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60-64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

General Education  Choose one course from four of the following six content areas for a total of 12-14 credits. 1, 2  Area I: Communications  Area II: Mathematics  Area III: Laboratory Science  Area IV: Social/Behavioral Sciences  Area V: Humanities  Area VI: Creative and Fine Arts  General Education Elective 2 3-4  Core Requirements  Select one from the following: 3  BCIS 1110 Introduction to Information Systems  E T 120 Computation Software  MATH 1215 Intermediate Algebra (or Approved technology-related math course)  OECS 220 Database Application and Design 3  Business/Computer Electives  Select one from the following: 3  ACCT 2120 Principles of Accounting II	Prefix	Title	Credits
of 12-14 credits. 1, 2  Area I: Communications  Area II: Mathematics  Area III: Laboratory Science  Area IV: Social/Behavioral Sciences  Area V: Humanities  Area VI: Creative and Fine Arts  General Education Elective 2 3-4  Core Requirements  Select one from the following: 3  BCIS 1110 Introduction to Information Systems  E T 120 Computation Software  MATH 1215 Intermediate Algebra (or Approved technology-related math course)  OECS 220 Database Application and Design 3  Business/Computer Electives  Select one from the following: 3	General Education	on	
Area II: Mathematics Area III: Laboratory Science Area IV: Social/Behavioral Sciences Area V: Humanities Area VI: Creative and Fine Arts  General Education Elective 2 3-4  Core Requirements  Select one from the following: 3  BCIS 1110 Introduction to Information Systems ET 120 Computation Software  MATH 1215 Intermediate Algebra (or Approved technology-related math course)  OECS 220 Database Application and Design 3  Business/Computer Electives Select one from the following: 3			12-14
Area III: Laboratory Science Area IV: Social/Behavioral Sciences Area V: Humanities Area VI: Creative and Fine Arts  General Education Elective 2 3-4  Core Requirements  Select one from the following: 3  BCIS 1110 Introduction to Information Systems ET 120 Computation Software  MATH 1215 Intermediate Algebra (or Approved technology-related math course)  OECS 220 Database Application and Design 3  Business/Computer Electives Select one from the following: 3	Area I: Comm	unications	
Area IV: Social/Behavioral Sciences  Area V: Humanities  Area VI: Creative and Fine Arts  General Education Elective 2 3-4  Core Requirements  Select one from the following: 3  BCIS 1110 Introduction to Information Systems  E T 120 Computation Software  MATH 1215 Intermediate Algebra (or Approved technologyrelated math course)  OECS 220 Database Application and Design 3  Business/Computer Electives  Select one from the following: 3	Area II: Mathe	ematics	
Area V: Humanities Area VI: Creative and Fine Arts  General Education Elective 2 3-4  Core Requirements  Select one from the following: 3  BCIS 1110 Introduction to Information Systems ET 120 Computation Software  MATH 1215 Intermediate Algebra (or Approved technology-related math course)  OECS 220 Database Application and Design 3  Business/Computer Electives  Select one from the following: 3	Area III: Labo	ratory Science	
Area VI: Creative and Fine Arts  General Education Elective 2 3-4  Core Requirements  Select one from the following: 3  BCIS 1110 Introduction to Information Systems  E T 120 Computation Software  MATH 1215 Intermediate Algebra (or Approved technology-related math course)  OECS 220 Database Application and Design 3  Business/Computer Electives  Select one from the following: 3	Area IV: Socia	al/Behavioral Sciences	
General Education Elective 2 3-4  Core Requirements  Select one from the following: 3  BCIS 1110 Introduction to Information Systems  E T 120 Computation Software  MATH 1215 Intermediate Algebra (or Approved technologyrelated math course)  OECS 220 Database Application and Design 3  Business/Computer Electives  Select one from the following: 3	Area V: Huma	nities	
Core Requirements  Select one from the following: 3  BCIS 1110 Introduction to Information Systems  ET 120 Computation Software  MATH 1215 Intermediate Algebra (or Approved technologyrelated math course)  OECS 220 Database Application and Design 3  Business/Computer Electives  Select one from the following: 3	Area VI: Creat	tive and Fine Arts	
Select one from the following:  BCIS 1110 Introduction to Information Systems  ET 120 Computation Software  MATH 1215 Intermediate Algebra (or Approved technology-related math course)  OECS 220 Database Application and Design 3  Business/Computer Electives  Select one from the following: 3	General Education	n Elective <sup>2</sup>	3-4
BCIS 1110 Introduction to Information Systems E T 120 Computation Software  MATH 1215 Intermediate Algebra (or Approved technology-related math course)  OECS 220 Database Application and Design 3  Business/Computer Electives Select one from the following: 3	Core Requiremen	nts	
ET 120 Computation Software  MATH 1215 Intermediate Algebra (or Approved technology-related math course)  OECS 220 Database Application and Design 3  Business/Computer Electives  Select one from the following: 3	Select one from	the following:	3
MATH 1215 Intermediate Algebra (or Approved technology-related math course)  OECS 220 Database Application and Design 3  Business/Computer Electives  Select one from the following: 3	BCIS 1110	Introduction to Information Systems	
related math course)  OECS 220 Database Application and Design 3  Business/Computer Electives  Select one from the following: 3	ET 120	Computation Software	
Business/Computer Electives Select one from the following: 3	MATH 1215	2	3
Select one from the following: 3	OECS 220	Database Application and Design	3
	Business/Compu	ter Electives	
ACCT 2120 Principles of Accounting II	Select one from	the following:	3
	ACCT 2120	Principles of Accounting II	

Select 3 OEC: ET1 ET1 Concent Select 1 ET2 ET2 OEC: OEC: OEC: OEC: OEC: OEC:	155 tration Coursewo 15 credits from 1 253	the following: Introduction to Networks Introduction to Computer Networks Network Operating Systems I	
Select 3 OEC: ET1 ET1 Concent Select 1 ET2 ET2 OEC: OEC: OEC: OEC: OEC:	S 261 153 155 tration Coursewo 15 credits from 1 253 277 S 230 S 231 S 234 S 235 S 262 S 263	the following: Introduction to Networks Introduction to Computer Networks Network Operating Systems I ork the following: Networking Operating Systems II Computer Networking I for IET Data Communications and Networks I Data Communications and Networks II Linux Server Structured Query Language (SQL) Essentials of Routing and Switching Network Fundamentals	
Select 3 OEC: ET1 ET1 Concent Select 1 ET2 ET2 OEC: OEC: OEC: OEC:	S 261 153 155 tration Coursewo 15 credits from 1 253 277 S 230 S 231 S 234 S 235 S 262	the following: Introduction to Networks Introduction to Computer Networks Network Operating Systems I  ork the following: Networking Operating Systems II Computer Networking I for IET Data Communications and Networks I Data Communications and Networks II Linux Server Structured Query Language (SQL) Essentials of Routing and Switching	3-4
Select 3 OEC: ET1 ET1 Concent Select 1 ET2 ET2 OEC: OEC: OEC:	S 261 153 155 tration Coursewo 15 credits from 1 253 277 S 230 S 231 S 234 S 235	the following: Introduction to Networks Introduction to Computer Networks Network Operating Systems I ork the following: Networking Operating Systems II Computer Networking I for IET Data Communications and Networks I Data Communications and Networks II Linux Server Structured Query Language (SQL)	
Select 3 OEC: ET1 ET1 Concent Select 1 ET2 ET2 OEC: OEC:	S 261 153 155 tration Coursewo 15 credits from 1 253 277 S 230 S 231 S 234	the following: Introduction to Networks Introduction to Computer Networks Network Operating Systems I ork the following: Networking Operating Systems II Computer Networking I for IET Data Communications and Networks I Data Communications and Networks II Linux Server	
Select 3 OECS ET1 ET1 Concent Select 1 ET2 ET2 OECS	S 261 153 155 tration Coursewo 15 credits from 1 253 277 S 230 S 231	the following: Introduction to Networks Introduction to Computer Networks Network Operating Systems I ork the following: Networking Operating Systems II Computer Networking I for IET Data Communications and Networks I Data Communications and Networks II	
Select 3 OECS ET1 ET1 Concent Select 1 ET2 ET2 OECS	S 261 153 155 tration Coursewo 15 credits from 1 253 277 S 230	the following: Introduction to Networks Introduction to Computer Networks Network Operating Systems I ork the following: Networking Operating Systems II Computer Networking I for IET Data Communications and Networks I	
Select 3 OECS ET1 ET1 Concent Select 1 ET2	S 261 153 155 tration Coursewo 15 credits from 1 253 277	the following: Introduction to Networks Introduction to Computer Networks Network Operating Systems I ork the following: Networking Operating Systems II Computer Networking I for IET	
Select 3 OECS ET1 ET1 Concent Select 1 ET2	S 261 153 155 tration Coursewo 15 credits from 1 253	the following: Introduction to Networks Introduction to Computer Networks Network Operating Systems I ork the following: Networking Operating Systems II	
Select 3 OECS ET1 ET1 Concent Select 1	S 261 153 155 tration Coursewo 15 credits from t	the following: Introduction to Networks Introduction to Computer Networks Network Operating Systems I ork the following:	
Select 3 OECS ET1 ET1 Concent	S 261   53   55 tration Coursewo	the following: Introduction to Networks Introduction to Computer Networks Network Operating Systems I	
Select 3 OECS ET1 ET1	S 261 153 155	the following: Introduction to Networks Introduction to Computer Networks Network Operating Systems I	3-4
Select 3 OECS E T 1	S 261 153	the following: Introduction to Networks Introduction to Computer Networks	3-4
Select 3	S 261	the following: Introduction to Networks	3-4
Select 3		the following:	3-4
	3-4 credits from	, , ,	3-4
or Of			
	ECS 290	Computer Technology Capstone	
OECS 2	50	Systems Analysis and Design I	3
OECS 20	07	Windows	3
OECS	S 227	Computer Applications for Technicians	
OECS	S 185	PC Maintenance and Repair I	
ET2	283	Hardware PC Maintenance	
Select 3	3 credits from th	ne following:	3
OECS 12		Operating Systems Linux/Unix	3
	al Requirements		
	Requirements		
Approve	ed programming	g-related course	3
MKT	G 2110	Principles of Marketing	
MGN	ИТ 2110	Principles of Management	
ET1	120	Computation Software	
	A 1110	Intro to Business	
	3 1110 N 2110	Introduction to Information Systems Introduction to Finance	

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
GEN Ed course - O	ne course from Areas I-VI <sup>1, 2</sup>	3
MATH 1215	Intermediate Algebra (or alternate)	3
Select one from th	e following:	3
BCIS 1110	Introduction to Information Systems	
ET 120	Computation Software	
Concentration cou	rse <sup>3</sup>	3
Approved program	ming-related course	3
	Credits	15

Spring		
GEN Ed course - On	ne course from Areas I-VI <sup>1, 2</sup>	3
GEN Ed course - On	ne course from Areas I-VI <sup>1, 2</sup>	3-4
OECS 128	Operating Systems Linux/Unix	3
OECS 207	Windows	3
Concentration cour	rse <sup>3</sup>	3
	Credits	15-16
Second Year		
Fall		
OECS 220	Database Application and Design	3
Select one from the	e following:	3
ET 283	Hardware PC Maintenance	
OECS 185	PC Maintenance and Repair I	
OECS 227	Computer Applications for Technicians	
Choose one from th	ne following:	3-4
ET 153	Introduction to Computer Networks	
ET 155	Network Operating Systems I	
OECS 261	Introduction to Networks	
Concentration cour	rse <sup>3</sup>	3
Business/Compute	er elective Course <sup>4</sup>	3
	Credits	15-16
Spring		
GEN Ed course - On	ne course from Areas I-VI <sup>1, 2</sup>	3-4
General Education	Elective - Any 'G' course <sup>2</sup>	3-4
OECS 250 or OECS 290	Systems Analysis and Design I or Computer Technology Capstone	3
Concentration cour	rse <sup>3</sup>	3
Concentration cour	rse <sup>3</sup>	3
	Credits	15-17
	Total Credits	60-64

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- See the <u>Requirements Tab</u> (p. 123) for specific courses.
- Business/Computer Electives:
  - · ACCT 2120 Principles of Accounting II
  - BCIS 1110 Introduction to Information Systems
  - BUSA 1110 Intro to Business
  - ET 120 Computation Software
  - BFIN 2110 Introduction to Finance
  - MGMT 2110 Principles of Management
  - MKTG 2110 Principles of Marketing

### Computer and Information Technology (Programming) -Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60-64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
<b>General Education</b>		
Choose one course from of 12-14 credits. 1, 2	m four of the following six content areas for a total	12-14
Area I: Communica	ations	
Area II: Mathemati	cs	
Area III: Laboratory	/ Science	
Area IV: Social/Beh	navioral Sciences	
Area V: Humanities	3	
Area VI: Creative a		
General Education Elec	tive <sup>2</sup>	3-4
Core Requirements		
Select one from the fo	ollowing:	3
BCIS 1110	Introduction to Information Systems	
ET 120	Computation Software	
MATH 1215	Intermediate Algebra	3
0ECS 220	Database Application and Design	3
Business/Computer Ele	ectives	
Select one from the fo	ollowing:	3
ACCT 2120	Principles of Accounting II	
BCIS 1110	Introduction to Information Systems	
BFIN 2110	Introduction to Finance	
BUSA 1110	Intro to Business	
ET 120	Computation Software	
MGMT 2110	Principles of Management	
MKTG 2110	Principles of Marketing	
Approved programmir	ng-related course	3
Major Requirements		
Technical Requirement	s	
OECS 128	Operating Systems Linux/Unix	3
Select 3 credits from t	the following:	3
ET 283	Hardware PC Maintenance	
OECS 185	PC Maintenance and Repair I	
0ECS 227	Computer Applications for Technicians	
0ECS 207	Windows	3
OECS 250	Systems Analysis and Design I	3
or OECS 290	Computer Technology Capstone	
Select 3-4 credits from	n the following:	3-4
OECS 261	Introduction to Networks	
ET 153	Introduction to Computer Networks	
ET 155	Network Operating Systems I	
Concentration Coursew	vork	
Select 15 credits from	<u> </u>	15
E T 253	Networking Operating Systems II	
E T 283	Hardware PC Maintenance	
OECS 140	Introduction to Game Production Industry	
OECS 141	Introduction to Interactive Game Programming	
OECS 192	C++ Programming I	
OECS 195	Java Programming I	
OECS 216	Programming for the Web	
OECS 235	Structured Query Language (SQL)	
OECS 245	Game Programming I	
Total Credits		60-64

Each course selected must be from a different area and students cannot take multiple courses in the same area.

See the <u>General Education</u> section of the catalog for a full list of courses.

### A Suggested Plan of Study

Title

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
GEN Ed course - Or	ne course from Areas I-VI <sup>1, 2</sup>	3
MATH 1215	Intermediate Algebra (or alternate)	3
Select one from the	e following:	3
BCIS 1110	Introduction to Information Systems	
ET 120	Computation Software	
Concentration cour	rse <sup>3</sup>	3
Approved programi	ming-related course	3
	Credits	15
Spring		
GEN Ed course - Or	ne course from Areas I-VI <sup>1, 2</sup>	3
GEN Ed course - Or	ne course from Areas I-VI <sup>1, 2</sup>	3-4
OECS 128	Operating Systems Linux/Unix	3
OECS 207	Windows	3
Concentration cour	rse <sup>3</sup>	3
	Credits	15-16
Second Year		
Fall		
OECS 220	Database Application and Design	3
Select one from the	e following:	3
ET 283	Hardware PC Maintenance	
OECS 185	PC Maintenance and Repair I	
OECS 227	Computer Applications for Technicians	
Choose one from th	ne following:	3-4
E T 153	Introduction to Computer Networks	
ET 155	Network Operating Systems I	
OECS 261	Introduction to Networks	
Concentration cour	rse <sup>3</sup>	3
Business/Compute	r elective Course <sup>4</sup>	3
	Credits	15-16
Spring		
GEN Ed course - Or	ne course from Areas I-VI <sup>1, 2</sup>	3-4
General Education	Elective - Any 'G' course <sup>2</sup>	3-4
OECS 250 or OECS 290	Systems Analysis and Design I or Computer Technology Capstone	3
Concentration cour		3
Concentration cour	rse <sup>3</sup>	3
	Credits	15-17
	Total Credits	60-64
	. Star Greate	00 04

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- See the Requirements Tab (p. 124) for specific courses.

- Business/Computer Electives:
  - · ACCT 2120 Principles of Accounting II
  - BCIS 1110 Introduction to Information Systems
  - · BUSA 1110 Intro to Business
  - ET 120 Computation Software
  - BFIN 2110 Introduction to Finance
  - MGMT 2110 Principles of Management
  - · MKTG 2110 Principles of Marketing

# **Microcomputer Applications - Certificate**

Prefix	Title	Credits	
Core Curriculum Requirements			
BCIS 1110	Introduction to Information Systems	3	
COMM 1115G	Introduction to Communication	3	
OECS 110	Introduction to Power Point	1	
OECS 255	Special Topics	1	
OECS 125	Operating Systems	3	
OECS 200	Accounting on Microcomputers	3	
OECS 209	Computer Graphic Arts	3	
OECS 211	Word Processing Applications	3	
OECS 215	Spreadsheet Applications	3	
OECS 220	Database Application and Design	3	
OECS 260	Hypertext Markup Language (HTML)	3	
OECS 280	Desktop Publishing I	3	
Total Credits		32	

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
BCIS 1110	Introduction to Information Systems	3
OECS 125	Operating Systems	3
OECS 211	Word Processing Applications	3
OECS 255	Special Topics	1
OECS 220	Database Application and Design	3
OECS 215	Spreadsheet Applications	3
	Credits	16
Spring		
OECS 209	Computer Graphic Arts	3
OECS 200	Accounting on Microcomputers	3
OECS 260	Hypertext Markup Language (HTML)	3
COMM 1115G	Introduction to Communication	3
OECS 280	Desktop Publishing I	3
OECS 110	Introduction to Power Point	1
	Credits	16
	Total Credits	32

### **Criminal Justice**

The **Associate in Criminal Justice** introduces the graduate to three facets of the Criminal Justice System (e.g., Police, Courts, and Corrections). This

degree plan is broadly interdisciplinary in nature embracing the study of the humanities, law, and natural, behavioral, and social sciences. The curriculum seeks to balance theoretical inquiry with applied knowledge.

This degree plan is designed to prepare students to transfer to NMSU Las Cruces to complete a Bachelor of Criminal Justice Degree. NMSU Las Cruces, through the College of Distance Education, also offers an online Criminal Justice Bachelor's degree with required upper division courses offered online. Note that 100 and 200 level Bachelor degree requirements are not part of that online offering therefore students who are planning on taking the Criminal Justice Online degree program are advised to take a second English 200 level course as the recommended elective in the Associate degree and to complete a second or heritage language sequence at the 200 level (that is, 211-212; 213-214).

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Criminal Justice - Associate in Criminal Justice (p. 126)

### CJUS 1110G. Introduction to Criminal Justice 3 Credits (3)

This course provides an overall exploration of the historical development and structure of the United States criminal justice system, with emphasis on how the varied components of the justice system intertwine to protect and preserve individual rights. The course covers critical analysis of criminal justice processes and the ethical, legal, and political factors affecting the exercise of discretion by criminal justice professionals.

### CJUS 1120. Criminal Law 3 Credits (3)

This course covers basic principles of substantive criminal law including elements of crimes against persons, property, public order, public morality, defenses to crimes, and parties to crime. May be repeated up to 3 credits.

### CJUS 1996. Special Topics in Criminal Justice 1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated under different topics for a maximum of 6 credits.

### CJUS 2120. Criminal Courts and Procedure 3 Credits (3)

This course covers the structures and functions of American trial and appellate courts, including the roles of attorneys, judges, and other court personnel, the formal and informal process of applying constitutional law, rules of evidence, case law and an understanding of the logic used by the courts.

### CJUS 2140. Criminal Investigations 3 Credits (3)

This course introduces criminal investigations with in the various local, state, and federal law enforcement agencies. Emphasis is given to the theory, techniques, aids, technology, collection, and preservation procedures which insure the evidentiary integrity. Courtroom evidentiary procedures and techniques will be introduced. Community Colleges only. (Note: students completing CJUS 2140 may not take CJUS 321.)

### CJUS 2150. Corrections System 3 Credits (3)

This course introduces the corrections system in the United States, including the processing of an offender in the system and the responsibilities and duties of correctional professionals. The course covers the historical development, theory, and practice, as well as the institutional and community-based alternatives available in the corrections process.

### CJUS 2160. Field Experience in Criminal Justice 3-6 Credits

This course is designed to provide actual experience working for a criminal justice agency and the opportunity to apply criminal justice concepts and theory to a field situation. Students already working in an agency will complete an approved learning project while on the job.

Prerequisites: CJUS 1110G, prior arrangement and consent of instructor and a GPA of 2.0 or better in major.

### CJUS 2220. The American Law Enforcement System 3 Credits (3)

This course covers the historical and philosophical foundations of law and order, with an in-depth examination of the various local, state, ad federal law enforcement agencies and how they interact within the criminal justice system.

# **Criminal Justice - Associate in Criminal Justice**

A grade of C- or better is required in all Criminal Justice courses, Second Language courses, and any courses filling the Core Requirements.

A maximum of 3-5 credit hours of applied coursework may be counted towards a C J degree. PL S (Paralegal Studies) courses can never replace or substitute for a Criminal Justice (C J) course but may be used as electives within the 3-5 credits applied course limit. Please contact an advisor.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
<b>General Education</b>		
Area I: Communication	ns	
English Composition -	Level 1	
ENGL 1110G	Composition I	4
English Composition -	Level 2	
Choose one from the	following:	3
ENGL 2210G	Professional & Technical Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
Oral Communication		
Choose one from the	following:	3
COMM 1130G	Public Speaking	
or COMM 1115	G Introduction to Communication	
Area II: Mathematics		
MATH 1220G	College Algebra	3
or MATH 1350G	Introduction to Statistics	
Area III/IV: Laboratory	Sciences and Social/Behavioral Sciences	10
CJUS 1110G	Introduction to Criminal Justice (Core requirement)	

SOCI 2310G	Contemporary Social Problems	
Area III: Laborator	ry Sciences Course (4 credits) <sup>2</sup>	
Area V: Humanities		
Choose one from the Requirement):	following (course will also count as Core	3
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 2230G	Philosophical Thought	
Area VI: Creative and I	Fine Arts <sup>2</sup>	3
General Education Ele	ctive	
POLS 1120G	American National Government	3
Core Requirements		
Both CJUS 1110G an and General Education	d one PHIL course will count towards both Core on Requirements	
CJUS 1120	Criminal Law	3
CJUS 2120	Criminal Courts and Procedure	3
CJUS 2150	Corrections System	3
CJUS 2220	The American Law Enforcement System	3
Second Language: (r	equired)	
Choose one of the fo Requirement	llowing option to complete the Second Language	8
Completion of a s	econd language through the 1120 level	
Completion of a s for Heritage speal	econd language through the 1130 or 1140 level kers	
Fulfilling one of th	ne alternatives (see an advisor for specifics)	
Electives, to bring to	tal credits to 60 <sup>3</sup>	8
Recommended Electiv	ves	
CJUS 2140	Criminal Investigations	
CJUS 2160	Field Experience in Criminal Justice	
PSYC 2221	Applied Psychology	
Total Credits		60

- A Mathematics course is required for the degree but students may need to take any prerequisites needed to enter the course first.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
CJUS 1110G	Introduction to Criminal Justice	3
ENGL 1110G	Composition I	4
POLS 1120G	American National Government	3
Area VI: Creative	and Fine Arts Course <sup>2</sup>	3
	Credits	13

#### Spring

Choose one from the f	following:	3
ENGL 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science	
CJUS 2220	The American Law Enforcement System	3
CJUS 2150	Corrections System	3
Area III: Laboratory Sc	ience Course <sup>2</sup>	4
Elective <sup>3</sup>		3
	Credits	16
Second Year		
Fall		
SPAN 1110	Spanish I (Foreign Language) <sup>4</sup>	4
MATH 1220G or MATH 1350G	College Algebra <sup>1</sup> or Introduction to Statistics	3
PHIL 1115G or PHIL 2230G or PHIL 1120G	Introduction to Philosophy or Philosophical Thought or Logic, Reasoning, & Critical Thinking	3
CJUS 1120	Criminal Law	3
Elective Course 3, 5		3
	Credits	16
Spring		
SPAN 1120	Spanish II 4	4
CJUS 2120	Criminal Courts and Procedure	3
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
SOCI 2310G	Contemporary Social Problems	3
Elective Course <sup>3</sup>		2
	Credits	15
	Total Credits	60

- A Mathematics course is required for the degree but students may need to take any prerequisites needed to enter the course first.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.
- Students can follow one of the options below to complete the Second Language Requirement (the one displayed in this roadmap is option 1 with SPAN courses)
  - 1. Completion of a second language through the 1120 level
  - 2. Completion of a second language through the 1130 or 1140 level for Heritage speakers
  - 3. Fulfilling one of the alternatives (see an advisor for specifics)
- Or any additional English Composition Level 2 course

### **Digital Media Technology**

The **Digital Media Technology** program offers instruction and handson learning in in graphic design, digital video production, gaming, animation, simulation, and web design. Students may choose from several certificates which also apply towards the Associate of Applied Science degree in Digital Media Technology. Those include:

- · Digital Animation: three-dimensional computer graphic animation
- Digital Graphics: the creation, publication and management of digital graphics for online distribution
- · Digital Video: video production techniques for digital media
- Digital Video Game Animation: video game design and development for entertainment

### **Graduation Requirements**

Digital Media Certificates (all): WorkKeys® scores of level 5 in Reading for Information, level 4 in Locating Information, and level 5 in Applied Mathematics; cumulative GPA of 2.0 or higher. A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic program may have additional requirements.

AAS in Digital Media Technology: ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements. TOTAL CREDITS REQUIRED FOR DEGREE: 60 credit hours

Digital Animation - Certificate (p. 132)

Digital Graphics - Certificate (p. 133)

Digital Video - Certificate (p. 133)

Digital Video Game Animation - Certificate (p. 133)

**Gainful Employment Disclosure**: Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following <u>Gainful Employment Disclosure</u>

<u>Digital Media Technology (Digital Animation) - Associate of Applied Science</u> (p. 134)

<u>Digital Media Technology (Digital Graphics) - Associate of Applied Science</u> (p. 135)

<u>Digital Media Technology (Digital Video)</u> - <u>Associate of Applied Science</u> (p. 136)

#### FDMA 1110. Film History

#### 3 Credits (3)

This course surveys the history of cinema -investigating the process by which the original "cinema of attractions" evolved into a globally dominant form of visual storytelling. We will explore the development of cinema both as an art form and as an industry, and consider the technological, economic, cultural factors, and key international movements that shape it.

### FDMA 1120. Desktop Publishing 3 Credits (2+2P)

This course is designed to teach introductory skills for designing and creating publications and presentations with layout software. The course will focus on graphics and typographic design, fonts, and other skills for print and web publishing.

### FDMA 1210. Digital Video Production I 3 Credits (2+4P)

An introduction to digital video production. Students learn camera operation, lights and audio equipment. Hands-on production is completed in the studio and on location.

### FDMA 1220. Introduction to Digital Video Editing 3 Credits (3)

In this course, students learn the basics of the post-production process for non-linear video editing. Students work with multiple video formats and create short movies for multiple distribution platforms. Skills include media management and professional terminology.

Prerequisite(s)/Corequisite(s): FDMA 2382.

### FDMA 1260. Introduction to Digital Media

#### 1-3 Credits (1-3)

Explores concepts of how text, graphics, sound, images and video come together in a digital media program and researching new trends and current issues related to media applications and design. Students will be involved in teamwork, communication and workplace interaction simulation. May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

### FDMA 1360. Web Design I 3 Credits (2+2P)

This course provides an introduction to web development techniques, theory, and design. Students will learn HTML, CSS application, and strategies for effective site navigation and design, along with industry standard web editing software to develop various websites. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ARTS 1520 OR FDMA 1515.

#### FDMA 1410. Audio Production I

#### 3 Credits (2+2P)

Students will learn about and apply essential tools and techniques in analog and digital audio production. Topics include acoustic science, microphones, recording and mixing techniques, analog and digital audio hardware and software, including, multi-track, computer-based recording and editing systems. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 1210 and FDMA 2410.

#### FDMA 1415. Principles of Sound

#### 3 Credits (2+2P)

The creation of a professional quality original media soundtrack is possible for relatively low production/post production cost. This class is designed to give the student and overview of creating sound for a variety of digital media. Topics include acoustic principles, sound design, audio hardware, recording techniques; and editing, processing, and multi-track mixing, using software applications. Restricted to: Community Colleges only.

Prerequisite(s)/Corequisite(s): FDMA 1220.

#### FDMA 1510. Introduction to 3D Animation

#### 3 Credits (3)

This course provides an overview of 3D animation production processes. Students will be introduced to basic story development and the creation of computer-generated assets and cinematic sequences. The course will survey specialty areas of digital animation and various software and techniques applied in entertainment and information media. Students will review and critique other's animation, as well as plan and produce original animation for review by classmates and as part of a CGI demo reel.

Prerequisite(s): FDMA 2382 or FDMA 2381 or consent of instructor.

### FDMA 1515. Introduction to Digital Image Editing - Photoshop 3 Credits (2+2P)

In this course, students will learn how to use the tools in Adobe Photoshop to create new images and edit existing images. Tools used will include selections, layers, and adjustments, among other pixel editing tools. Basic composition and output will be emphasized in all projects. May be repeated for a maximum of 6 credits.

### FDMA 1531. Evolution of Electronic Games 3 Credits (2+2P)

Focus on the evolution of video games and how they have shaped mainstream entertainment. May be repeated up to 6 credits.

### FDMA 1535. Introduction to Illustrator 3 Credits (2+2P)

Students receive instruction on vector graphics creation using vector illustration software. The students will create professional-quality artwork for print publishing and multimedia graphics. Instruction includes creating and manipulating basic shapes, drawing with the pen tool, using various brushes, working with type and preparing graphics for web, print, and digital publication. May be repeated for a maximum of 6 credits.

### FDMA 1536. Advanced Computer Illustration 3 Credits (2+2P)

Advanced techniques in 2D vector drawing and fundamentals of 3D illustration for use in print, web, and multimedia applications. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1535.

### FDMA 1545. Introduction to Photography & Digital Imaging 3 Credits (2+2P)

This course is a study of the principles and techniques of photography using digital equipment, and discusses how digital cameras, imaging editing, and technology have changed the world of photography. Students will learn about studies in resolution, lighting, software, editing, printing, and web applications. They will gain fundamental knowledge in the rapidly expanding technology of photography and imaging, and be able to incorporate the knowledge into all areas of digital graphics.

### FDMA 1555. Introduction to the Creative Media Industry 3 Credits (3)

This class is an introductory course for students who are beginning their understanding of Media and how it affects them and our society. It offers a broad-stroked view of the entire industry including Marketing, Production, History, Jobs, Design, Architecture, New Media Literacy, and industry standards. Students will listen to experts in the field, get involved in open discussions about the industry and use new information to complete hands-on individual & group assignments.

### FDMA 1630. Principles of Design 3 Credits (2+2P)

This course will explore how we see and use visuals to communicate information. Students will develop critical thinking skills in applying concepts of basic design principles. Students will apply the concepts with hands-on and analysis assignments. These concepts will then be applied to design for advertising, print, digital media, and web design. The business of design will also be covered with emphasis on client relations and networking Restricted to: Community Colleges only. Prerequisite(s): FDMA 1535

#### FDMA 1710. 2D Animation

#### 3 Credits (2+2P)

Concepts and techniques in storyboarding and creating interactive 2D animations for web, multimedia and video.

Prerequisite(s): FDMA 1535.

#### FDMA 1715. 2-D COMPOSING & FX

#### 3 Credits (3)

The purpose of this course is to familiarize students with the powerful compositing and special effects tools of Adobe After Effects for 2D, traditional animation. Students will learn how to assemble an existing unrendered animation into a final piece with advanced 3D lighting, spacing, and digital effects so that it can achieve a dynamic, professionally rendered look. Restricted to Las Cruces campus only.

#### FDMA 1720. 3-D Character Design

#### 3 Credits (2+4P)

Focus on designing a character and then taking that design and building it in 3D using intermediate modeling techniques. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1510 or FDMA 2530.

#### FDMA 1996. Selected Topics

#### 1-4 Credits (1-4)

Specific titles to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits. Restricted to Community Colleges campuses only.

#### FDMA 2111. Environmental Scene Design

#### 3 Credits (2+4P)

Modeling design techniques used to create environments and scenes for use in animated films and games. Investigation of both natural and architectural environments to be recreated in the virtual world.

Prerequisite(s): FDMA 1510 or FDMA 2530.

### FDMA 2120. Film Crew I/ Introduction to Film and Media Workflow 9 Credits (9)

An introduction to the film industry. This class teaches film production processes, film crew hierarchy, film production set-safety and etiquette and provides hands-on training in industry standard film production equipment. Students complete the semester by participating as a below-the-line crew member on a short film. Restricted to: Community Colleges only.

#### FDMA 2125. Film Crew II

#### 9 Credits (9)

The second course designed to train students to become working members of film crews. It will be taught by working film professionals. Content will be lecture and hands-on. Students complete the semester by working as part of an actual film crew as below-the-line and above-the-line crew members. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 2120.

#### FDMA 2144. Pre-production Management

#### 3 Credits (2+2P)

Pre-production planning paperwork breakdowns, budgeting, and scheduling; taking a project from start to finish from a producers standpoint.

Prerequisite(s): FDMA 1210.

### FDMA 2150. Desktop Publishing II

3 Credits (2+2P)

This class will enhance and build upon student layout/design skills developed in the Introduction to Desktop Publishing course, incorporating intermediate to advanced concepts in typography and layout design. Upon completion of this course, students will be able to use page layout software to prepare a variety of documents for presentation and critique, including newsletters, instructional flyers, and other complex design/typographic pieces May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1120.

#### FDMA 2210. Digital Video Production II

#### 3 Credits (2+2P)

Advanced techniques of the tools and application of professional film making. May be repeated for a maximum of 6 credits.

Prerequisite: FDMA 1210.

### FDMA 2235. Music Production Master 3 Credits (2+2P)

Advanced digital audio post production and recording techniques using current entertainment industry-standard software and hardware. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 1415 and FDMA 2410.

#### FDMA 2241. Advanced Camera Techniques

#### 3 Credits (2+2P)

Professional camera techniques and training for electronic news gathering and studio filmmaking. Utilizes high-end handheld shooting techniques, cranes, dollies, and steadicam training. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1210.

### FDMA 2285. Digital Video Production and Editing II 3 Credits (2+2P)

Advanced features of digital video, audio/music, and titling production software. Included are color correction, vector scopes, motion effects, and advanced editing techniques used by filmmakers. Restricted to Community Colleges campuses only. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1220.

#### FDMA 2287. Digital Design Studio

#### 1-3 Credits

A design studio environment in which students obtain real-world experience while providing service to college and non-profit associations with faculty supervision using a variety of media. Can be used with permission to fulfill cooperative requirement. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1630 or ARTS 1712.

#### FDMA 2310. History of Cinema I

#### 3 Credits (3)

This course surveys the history of cinema - investigating the process by which the original "cinema of attractions" evolved into a globally dominant form of visual storytelling. We will explore the development of cinema both as an art form and as an industry, and consider the technological, economic, cultural factors, as well as many key international movements that helped shape it. Restricted to: G-CMI, DFM, ANVE majors.

#### FDMA 2311. History of Animation

#### 3 Credits (3)

Explores the history of Animation as an art form and industry through readings, screenings, lecture and periodic guest speakers. Restricted to: G-CMI, ANVE, DFM majors. Restricted to Las Cruces campus only.

#### FDMA 2312. History of Media Design

#### 3 Credits (3)

An introduction to the principles of design history and theory within a chronological framework of historical and emerging media.

#### FDMA 2325. Advanced Photoshop

#### 3 Credits (2+2P)

This course expands on the Photoshop skill set to develop proficiency with selections, masking, channels, filters, color correction, painting tools, vector integration, video, special effects, and compositing techniques. The focus is on the core image-editing tools of Photoshop that can be universally applied to photography, print, film or the web. The material is covered in production-oriented projects and students develop work suitable for portfolios. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1515.

### FDMA 2326. Digital Photography and Imaging II 3 Credits (2+2P)

Provide understanding and skills needed for advanced digital capture, editing, optimizing and manipulating photographic images for print, web and multimedia applications. The course will prepare students to make more advanced technical and more refined aesthetic decisions relative to specific photographic applications. Restricted to: Alamogordo campus, Carlsbad campus, Dona Ana campus.

Prerequisite(s): FDMA 1545.

#### FDMA 2360. Web Design II

#### 3 Credits (2+2P)

In this course, students will refine their skills in coding and web graphic design as well as be introduced to methods in constructing sites that adhere to the standards of responsive web design. Students will expand their knowledge of HTML and CSS using a code editor, and they will both analyze existing websites and also construct an interactive website. May be repeated up to 6 credits. Restricted to Community Colleges campuses only

Prerequisite(s): FDMA 1360.

### FDMA 2365. Web Design for Small Business 3 Credits (2+2P)

Technology and techniques for designing and building a web presence for small business. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1360.

#### FDMA 2370. Advanced Web Techniques

#### 3 Credits (2+2P)

Creating and managing complex web sites using advanced techniques and tools. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 1515 and FDMA 2360.

#### FDMA 2381. Storyboarding

#### 3 Credits (3)

Examines effective writing principles to create storyboards that communicate the overall picture of a project, timing, scene complexity, emotion and resource requirements. Further, the purpose of this course is to introduce students to the principles of visual storytelling—in film--through the use of the storyboard. In other words, to show how storyboards are critical 'architectural component' of the filmmaking process, used as a blueprint (or guide) to communicate the complex elemnts of a film story. Crosslisted with: ENGL 2381. Restricted to: DFM,ANVE, G-CMI majors. Restricted to Las Cruces campus only.

### FDMA 2382. Principles of Story Across the Media 3 Credits (3)

The purpose of this course is to help students understand the basic elements of narrative structure (e.g. character, dramatic conflict, theme, etc.) and how these elements may be used effectively in media expression. Crosslisted with: ENGL 2382. Restricted to: G-CMI, DFM, ANVE majors. Restricted to Las Cruces campus only.

### FDMA 2410. Audio Production II 3 Credits (2+2P)

Students will use skills developed in the Audio Production I course to produce audio projects utilizing a variety of analog and digital audio hardware and software, including continued use of multi-track, computer-based recording and editing systems, as well as exploring more advanced audio techniques and concepts. Restricted to: Community Colleges only.

### FDMA 2510. Introduction to Sound Design for Film 3 Credits (3)

This couse is an introduction to the principles, techniques and applications of sound design and film scoring. Students learn how sound affects storytelling in a film, examine the role of sound from the script to screen, and the professional process of creating a soundtrack. Students learn how to use sound equipment in a production environment and execute basic techniques used to develop a soundtrack. Crosslisted with: FDMA 1415.

**Prerequisite(s)/Corequisite(s):** FDMA 2382. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

### FDMA 2520. Introduction to Cinematography 3 Credits (3)

The Director of Photography (or Cinematographer), in close collaboration with the Director and Production Designer, helps determine the look of a film. This course is designed to intorduce students to the technical and aesthetic fundamentals of creating, developing, and collaborating on the visual elements of storytelling, using camera framing, lensing, and lighting fundamentals such as shadows, light and color. May be repeated up to 6 credits. only. Prerequisite(s)/Corequisite(s): FDMA 2382 (Las Cruces Campus) or FDMA 1210 (Community College Campus(es)

### FDMA 2530. Introduction to 3D Modeling 3 Credits (3)

This course will introduce 3D modeling methods and current practices. Students will learn preliminary and detailed modeling techniques using industry standard software. Methods will emphasize formal and functional aspects of modeling as they apply to mechanical, organic, and sculpted topology for application in animation, games, and information media. May be repeated for a maximum of 6 credits.

#### FDMA 2535. Digital Illustration

#### 3 Credits (3)

Introductory course examining traditional artistic expressions and translating visual art experiences into a digital art medium to enhance visual storytelling. Students acquire basic principles of drawing and painting through hands-on experience manipulating tonal value, composition, form development, light and shadow, color theory, rendering realism, and graphic design. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

### FDMA 2570. Creative Media Studio 3 Credits (2+2P)

A studio environment where students specialize in creating film-festival quality and portfolio-ready projects under the supervision of faculty. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1210 and FDMA 1220 or FDMA 2530.

#### FDMA 2710. Beginning 2-D Animation

#### 3 Credits (3)

Students will learn the basics of digital 2D animation by working through a variety of exercises, creating an original storyboard, and animating five or more shots utilizing industry standard software. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

#### FDMA 2715. Special Effects

#### 3 Credits (2+4P)

Creating advanced virtual special effects for both rigid and soft bodies. Using MEL, dynamic principles, mixing nodes, and advanced particle systems. How to drive particles over surfaces, add texture to flow, create surface tensions, and use collision events to drive texture. Study of integrating computer-generated images with real-life video and audio. **Prerequisite(s):** FDMA 2530 or FDMA 2765.

#### FDMA 2720. 3-D Animation

#### 3 Credits (3)

Overview of the essentials and principles of 3D animation; creative methods for using industry standard tools to produce the illusion of movement for storytelling. Topics include, keyframe and curve animation, kinematics, cycle animation, camera animation, deformers, and constraints.

Prerequisite(s): FDMA 1510, FDMA 2710 or consent of instructor.

### FDMA 2725. Rigging for 3D Animation 3 Credits (3)

This course will introduce principles and practices of current 3D animation rigging. Students will develop fundamental methods necessary to create character rigs. Students will learn aesthetic, technical, and optimization concepts as they apply to organic and mechanical designs. Topics will include: hierarchies, constraints, deformation rigging, skeleton creation, skinning, forward and inverse kinematics, controls, body and facial rigging. Restricted to: DFM, ANVE majors.

Prerequisite(s): FDMA 1510.

### FDMA 2730. Advanced Character Animation 3 Credits (2+2P)

Focus on complex rigging techniques as well as utilizing advanced animation functions to blend multiple animations into complex animations. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 2530.

### FDMA 2735. Advanced 3D Animation Workshop A 3 Credits (2+4P)

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits. Consent of instructor required. **Corequisite(s):** FDMA 2740.

### FDMA 2740. Advanced 3D Animation Workshop B 3 Credits (2+4P)

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits. Consent of instructor is required. **Corequisite(s):** FDMA 2735.

#### FDMA 2745. Light, Shade, Render 3 Credits (3)

This course will explore the theory and practice of 3D lighting and rendering methodologies. Techniques covered will implement cameras, lighting sources, textures, surface-mapping and algorithmic rendering to produce stylized and photo realistic images. Topics covered will include

direct and indirect lighting, shaders that simulate physical substances and effects, rendering multiple passes and simulating physical lens effects. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

Prerequisite(s): FDMA 1510, FDMA 2530, or Consent of Instructor.

#### FDMA 2750. Digital Sculpting

#### 3 Credits (3)

Introduce students to the 3D Sculpting programs which are the industry standard sculpting programs. Students will learn how to create complex high polygon sculpts and normal maps and transfer the models into 3D studio Max and Autodesk Maya. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 2530.

#### FDMA 2755. Drawing for Animation

#### 3 Credits (3)

Introductory study of the human and animal form in relation to animation. Students learn fundamentals and exaggeration of the figure, as related to proportion, rhythm, mechanics, and motion. Areas of focus are: basic form, proportion, shape, contour, gesture, anatomy, portraiture, perspective, clothing effects and drawing from observation. Restricted to: CMT,DFM,ANVE majors.

#### FDMA 2770. Critical Game Studies

#### 3 Credits (2+2P)

Focus on creating a complete design document utilizing techniques and standards used in the industry today. May be repeated for up to 6 credits. Restricted to: Community Colleges only.

#### FDMA 2775. Game Tools and Techniques

#### 3 Credits (2+2P)

Focus on the different engines and gaming technologies that power the games of today. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 2770.

#### FDMA 2785. Level Design Concepts

#### 3 Credits (2+2P)

Focus on the design and creation of video game levels. Dealing with the challenges and pitfalls of different video game genres. May be repeated for a maximum of 6 credits. Prerequisite(s): FDMA 2770

#### FDMA 2993. Workshops (Advanced Photogrophy-Subtitle) 1 Credit (1)

This is a series of 1-credit workshops offering specialized and intense advanced skill training and upgrading applications of photography for commercial purposes and training in photographic skills and styles presented by a variety of professional lecturers. May be repeated up to 7 credits. Restricted to Community Colleges only.

Prerequisite(s): FDMA 1545.

#### FDMA 2994. Portfolio Design & Development

#### 1-3 Credits

Personalized design and creation of the student's professional portfolio including hard-copy, demo reel, and online. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

#### FDMA 2995. Film Crew Cooperative Experience 3-6 Credits (3-6)

Industry production experience in specific craft areas for film crew technicians who have successfully completed two semesters of FTTP. Restricted to: Dona Ana campus, Carlsbad campus.

Prerequisite(s): FDMA 2125.

#### FDMA 2996. Special Topics

#### 1-4 Credits

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits.

#### FDMA 2997. Independent Study

#### 1-3 Credits

Individual studies directed by consenting faculty with prior approval of department head. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Minimum GPA of 3.0 and sophomore standing.

#### FDMA 2998. Internship

#### 1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 9 credits. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. Consent of instructor required.

### **Digital Animation - Certificate**

Prefix	Title	Credits
Core Curriculum F	Requirements	
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
FDMA 1710	2D Animation	3
FDMA 1720	3-D Character Design	3
FDMA 2530	Introduction to 3D Modeling	3
FDMA 2730	Advanced Character Animation	3
FDMA 2735	Advanced 3D Animation Workshop A	3
FDMA 2740	Advanced 3D Animation Workshop B	3
Total Credits		24

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
FDMA 1535	Introduction to Illustrator	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
	Credits	6
Spring		
FDMA 1710	2D Animation	3
FDMA 2530	Introduction to 3D Modeling	3
	Credits	6

Second Year		
Fall		
FDMA 1720	3-D Character Design	3
FDMA 2730	Advanced Character Animation	3
	Credits	6
Spring		
FDMA 2735	Advanced 3D Animation Workshop A	3
FDMA 2740	Advanced 3D Animation Workshop B	3
	Credits	6
	Total Credits	24

### **Digital Graphics - Certificate**

Prefix	Title	Credits
Core Curriculum Requ	uirements	
FDMA 1120	Desktop Publishing	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
FDMA 1630	Principles of Design	3
FDMA 2150	Desktop Publishing II	3
FDMA 2360	Web Design II	3
Approved FDMA Elect	tives	6
Total Credits		24

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course First Year	Title	Credits
Fall		
FDMA 1120	Desktop Publishing	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
	Credits	6
Spring		
FDMA 1535	Introduction to Illustrator	3
FDMA 2150	Desktop Publishing II	3
	Credits	6
Second Year		
Fall		
FDMA 1630	Principles of Design	3
FDMA 2360	Web Design II	3
	Credits	6
Spring		
Approved FDMA Electi	ive	3
Approved FDMA Electi	ive	3
	Credits	6
	Total Credits	24

### **Digital Video - Certificate**

Prefix	Title	Credits
Core Curriculum Req	uirements	
FDMA 1110	Film History	3

FDMA 1210	Digital Video Production I	3
FDMA 1220	Introduction to Digital Video Editing	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 2210	Digital Video Production II	3
FDMA 2285	Digital Video Production and Editing II	3
FDMA 2520	Introduction to Cinematography	3
FDMA 2994	Portfolio Design & Development	3
Total Credits		24

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year Fall		
	the transfer of the second	
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1110	Film History	3
	Credits	6
Spring		
FDMA 2210	Digital Video Production II	3
FDMA 2285	Digital Video Production and Editing II	3
	Credits	6
Second Year		
Fall		
FDMA 1210	Digital Video Production I	3
FDMA 1220	Introduction to Digital Video Editing	3
	Credits	6
Spring		
FDMA 2520	Introduction to Cinematography	3
FDMA 2994	Portfolio Design & Development	3
	Credits	6
	Total Credits	24

# **Digital Video Game Animation - Certificate**

Prefix	Title	Credits
Core Curriculum R	equirements	
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
FDMA 1710	2D Animation	3
FDMA 1720	3-D Character Design	3
FDMA 2530	Introduction to 3D Modeling	3
FDMA 2730	Advanced Character Animation	3
FDMA 2735	Advanced 3D Animation Workshop A	3
FDMA 2740	Advanced 3D Animation Workshop B	3
Approved FDMA E	lectives	9
Total Credits		33

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
FDMA 1535	Introduction to Illustrator	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
-	Credits	6
Spring		
FDMA 1710	2D Animation	3
FDMA 2530	Introduction to 3D Modeling	3
Approved FDMA E	Elective	3
	Credits	9
Second Year		
Fall		
FDMA 1720	3-D Character Design	3
FDMA 2730	Advanced Character Animation	3
Approved FDMA E	Elective	3
	Credits	9
Spring		
FDMA 2735	Advanced 3D Animation Workshop A	3
FDMA 2740	Advanced 3D Animation Workshop B	3
Approved FDMA E	Elective	3
	Credits	9
	Total Credits	33

# Digital Media Technology (Digital Animation) - Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60-62 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix General Education	Title	Credits
	om four of the following six content areas for a total	12-14
of 12-14 credits. <sup>1, 2</sup>	mirous of the following dix doncent uread for a total	,,,,
	res courses from Areas I, II, III, and V; students are additional courses to complete the General ments.	
Area I: Communic	ations	
ENGL 1110G	Composition I	
Area II: Mathemat	ics	
MATH 1220G	College Algebra <sup>3</sup>	
or MATH 1130	G Survey of Mathematics	
Area III: Laborator	y Science	
Choose one from	the following :	
ASTR 1115G	Introduction Astro (lec+lab)	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	

PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
Area V: Humanities	•	
Choose one from th	ne following:	
ENGL 2520G	Film as Literature	
HIST 1150G	Western Civilization I	
HIST 1130G	World History I	
General Education Elect	tive	
PSYC 1110G	Introduction to Psychology (Core Requirement)	3
Core Requirements		
PSYC 1110G is going t and Core Requirement	o satisfy both the General Education Elective s for this degree	
ARTH 1115G	Orientation in Art	3
ARTS 1240	Design I	3
COMM 1115G	Introduction to Communication (Core Requirement)	3
or COMM 1130G	Public Speaking	
ENGL 2382	Narrative: Principles of Story Across the Media	3
FDMA 1260	Introduction to Digital Media	3
0EGR 221	Cooperative Experience I	1-3
or FDMA 2287	Digital Design Studio	
Program Concentration	Coursework	
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
FDMA 1710	2D Animation	3
FDMA 1720	3-D Character Design	3
FDMA 2530	Introduction to 3D Modeling	3
FDMA 2730	Advanced Character Animation	3
FDMA 2735	Advanced 3D Animation Workshop A	3
FDMA 2740	Advanced 3D Animation Workshop B	3
Electives, to bring the	total credits to 60 <sup>4</sup>	3
Total Credits		60-62

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- MATH 1220G College Algebra or MATH 1130G Survey of Mathematics is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G or MATH 1130G first.
- For electives, select from ART, CMT, CMI or OEGR courses. Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor.

#### A Suggested Plan of Study

Additional classes may be needed based on placement test results and/ or course prerequisites. Visit with an advisor for help with creating a customized plan.

Credits

Course First Year Fall	Title	Credits
FDMA 1260	Introduction to Digital Media	3
ENGL 1110G	Composition I	4
MATH 1220G or MATH 1130G	College Algebra <sup>1</sup> or Survey of Mathematics	3
Choose one from the	following:	3
ENGL 2520G	Film as Literature	
HIST 1150G	Western Civilization I	
HIST 1130G	World History I	
Program Concentration	on Course <sup>2</sup>	3
Spring	Credits	16
ARTS 1240	Design I	3
Choose one from the		4
ASTR 1115G	Introduction Astro (lec+lab)	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
PSYC 1110G	Introduction to Psychology	3
ARTH 1115G	Orientation in Art	3
Program Concentration	on Course <sup>2</sup>	3
Second Year	Credits	16
Fall		
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	3
Program Concentration	on Courses <sup>2</sup>	9
Elective Course <sup>3</sup>		3
	Credits	15
Spring		
ENGL 2382	Narrative: Principles of Story Across the Media	3
OEGR 221 or FDMA 2287	Cooperative Experience I or Digital Design Studio	1-3
Program Concentration	on Course <sup>2</sup>	9
	Credits	13-15
	Total Credits	60-62

MATH 121G College Algebra or MATH 210G Mathematics
Appreciation is required for the degree but students may need to take any prerequisites needed to enter MATH 121G or MATH 210G first.

#### Program Concentration Coursework:

- FDMA 1535 Introduction to Illustrator
- FDMA 1515 Introduction to Digital Image Editing Photoshop
- FDMA 1710 2D Animation
- · FDMA 2530 Introduction to 3D Modeling
- FDMA 1720 3-D Character Design
- FDMA 2730 Advanced Character Animation
- FDMA 2735 Advanced 3D Animation Workshop A
- FDMA 2740 Advanced 3D Animation Workshop B

For electives, select from ART, CMT, CMI or OEGR courses. Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

# Digital Media Technology (Digital Graphics) - Associate of Applied Science

Title

Prefix

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60-62 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

		0.00.00
General Educat	tion	
Choose one cou of 12-14 credits.	urse from four of the following six content areas for a total 1,2	12-14
do not need	requires courses from Areas I, II, III, and V; students I to take additional courses to complete the General equirements.	
Area I: Com	munications	
ENGL 11100	G Composition I	
Area II: Matl	hematics	
MATH 1220	OG College Algebra <sup>3</sup>	
or MATH	11130G Survey of Mathematics	
Area III: Lab	oratory Science	
Choose one	from the following:	
ASTR 11150	G Introduction Astro (lec+lab)	
CHEM 1120	Introduction to Chemistry Lecture and Laboratory (non majors)	
PHYS 12300 & PHYS 123	. , , , , , , , , , , , , , , , , , , ,	
Area V: Hum	nanities	
Choose one	from the following:	
ENGL 25200	G Film as Literature	
HIST 1150G	Western Civilization I	
HIST 1130G	World History I	
General Educati	ion Elective	
PSYC 1110G	Introduction to Psychology (Core Requirement)	3
Core Requirem	ents	
	going to satisfy both the General Education Elective irements for this degree	
ARTH 1115G	Orientation in Art	3
ARTS 1240	Design I	3
COMM 1115G	Introduction to Communication	3
or COMM 11	130G Public Speaking	
ENGL 2382	Narrative: Principles of Story Across the Media	3
FDMA 1260	Introduction to Digital Media	3
OEGR 221	Cooperative Experience I	1-3
or FDMA 22	287 Digital Design Studio	
Program Concer	ntration Coursework	
FDMA 1120	Desktop Publishing	3

FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
FDMA 1630	Principles of Design	3
FDMA 2150	Desktop Publishing II	3
FDMA 2360	Web Design II	3
Approved FDMA	6	
Electives, to brin	3	
Total Credits		60-62

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- MATH 1220G College Algebra or MATH 1130G Survey of Mathematics is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G or MATH 1130G first
- For electives, select from ART, CMT, CMI or OEGR courses.
  Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor.

#### A Suggested Plan of Study

Additional classes may be needed based on placement test results and/ or course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
ENGL 1110G	Composition I	4
FDMA 1260	Introduction to Digital Media	3
MATH 1220G or MATH 1130G	College Algebra or Survey of Mathematics	3
Choose one from the f	following:	3
ENGL 2520G	Film as Literature	
HIST 1150G	Western Civilization I	
HIST 1130G	World History I	
Program Concentratio	n Course <sup>2</sup>	3
	Credits	16
Spring		
ARTS 1240	Design I	3
Choose one from the f	following:	4
ASTR 1115G	Introduction Astro (lec+lab)	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
ARTH 1115G	Orientation in Art	3
PSYC 1110G	Introduction to Psychology	3
Program Concentratio	n Course <sup>2</sup>	3
	Credits	16

#### Second Year

#### Fall

Prefix

COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	3
Program Concentration	on Courses <sup>2</sup>	9
Elective Course <sup>3</sup>		3
	Credits	15
Spring		
ENGL 2382	Narrative: Principles of Story Across the Media	3
OEGR 221 or FDMA 2287	Cooperative Experience I or Digital Design Studio	1-3
Program Concentration Course <sup>2</sup>		
	Credits	13-15
	Total Credits	60-62

- MATH 121G College Algebra or MATH 210G Mathematics
  Appreciation is required for the degree but students may need to take any prerequisites needed to enter MATH 121G or MATH 210G first.
- Program Concentration Coursework:
  - · FDMA 1120 Desktop Publishing
  - · FDMA 1535 Introduction to Illustrator
  - · FDMA 1515 Introduction to Digital Image Editing Photoshop
  - · FDMA 1630 Principles of Design
  - FDMA 2360 Web Design II
  - FDMA 2150 Desktop Publishing II
  - · Approved FDMA Electives (6 credits)

Title

For electives, select from ART, CMT, CMI or OEGR courses.
Elective credit may vary based on prerequisites, dual credit, AP
credit, and/or certificate coursework. The amount indicated in the
requirements list is the amount needed to bring the total to 60 credits
and may appear in variable form based on the degree. However
students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with
their advisor.

# Digital Media Technology (Digital Video) - Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60-62 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Credits

		0.00.00
General Education		
Choose one course fro of 12-14 credits. <sup>1, 2</sup>	m four of the following six content areas for a total	12-14
	es courses from Areas I, II, III, and V; students e additional courses to complete the General ments.	
Area I: Communic	ations	
ENGL 1110G	Composition I	
Area II: Mathemat	ics	
MATH 1220G	College Algebra <sup>3</sup>	
or MATH 1130	G Survey of Mathematics	
Area III: Laborator	y Science	
Choose one from	the following:	
ASTR 1115G	Introduction Astro (lec+lab)	

CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
Area V: Humani	ties	
Choose one fro	m the following:	
ENGL 2520G	Film as Literature	
HIST 1150G	Western Civilization I	
HIST 1130G	World History I	
General Education E	Elective	
PSYC 1110G	Introduction to Psychology	3
Core Requirements	3	
-	ng to satisfy both the General Education Elective nents for this degree	
ARTH 1115G	Orientation in Art	3
ARTS 1240	Design I	3
COMM 1115G	Introduction to Communication	3
ENGL 2382	Narrative: Principles of Story Across the Media	3
FDMA 1260	Introduction to Digital Media	3
OEGR 221	Cooperative Experience I	1-3
or FDMA 2287	Digital Design Studio	
Program Concentra	tion Coursework	
FDMA 1110	Film History	3
FDMA 1210	Digital Video Production I	3
FDMA 1220	Introduction to Digital Video Editing	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 2210	Digital Video Production II	3
FDMA 2285	Digital Video Production and Editing II	3
FDMA 2520	Introduction to Cinematography	3
FDMA 2994	Portfolio Design & Development	3
Electives, to bring	the total credits to 60 <sup>4</sup>	3
Total Credits		60-62

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- MATH 1220G College Algebra or MATH 1130G Survey of Mathematics is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G or MATH 1130G first.
- For electives, select from ART, CMT, CMI or OEGR courses.

  Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

#### A Suggested Plan of Study

Additional classes may be needed based on placement test results and/ or course prerequisites. Visit with an advisor for help with creating a customized plan.

Course First Year Fall	Title	Credits
FDMA 1260	Introduction to Digital Media	3
ENGL 1110G	Composition I	4
MATH 1220G or MATH 1130G	College Algebra or Survey of Mathematics	3
Choose one from the f	•	3
ENGL 2520G	Film as Literature	
HIST 1130G	World History I	
HIST 1150G	Western Civilization I	
Program Concentration		3
9	Credits	16
Spring		
ARTS 1240	Design I	3
Choose one from the f	-	4
ASTR 1115G	Introduction Astro (lec+lab)	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
PSYC 1110G	Introduction to Psychology	3
ARTH 1115G	Orientation in Art	3
Program Concentration	n Course <sup>2</sup>	3
	Credits	16
Second Year		
Fall		
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	3
Program Concentration	, 3	9
Elective Course <sup>3</sup>		3
	Credits	15
Spring		
ENGL 2382	Narrative: Principles of Story Across the Media	3
OEGR 221 or FDMA 2287	Cooperative Experience I	1-3
	or Digital Design Studio	0
Program Concentration		9
	Credits	13-15
	Total Credits	60-62

- MATH 1220G College Algebra or MATH 1130G Survey of Mathematics is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G College Algebra or MATH 1130G Survey of Mathematics MATH 1130G Survey of Mathematics first.
- Program Concentration Coursework:
  - FDMA 1515 Introduction to Digital Image Editing Photoshop
  - FDMA 1110 Film History
  - FDMA 1210 Digital Video Production I
  - · FDMA 1220 Introduction to Digital Video Editing
  - FDMA 2520 Introduction to Cinematography
  - FDMA 2210 Digital Video Production II
  - FDMA 2285 Digital Video Production and Editing II
  - FDMA 2994 Portfolio Design & Development

For electives, select from ART, CMT, CMI or OEGR courses.
Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor.

### **Drafting and Graphics Technology**

The **Drafting and Graphics Technology** program provides students with the education and experience for entry-level drafting positions with industrial companies, architectural firms, and government agencies. Students will learn how to develop working drawings and electronic simulations for architectural and related construction projects, basic construction and structural design, architectural rendering, architectural-aided drafting (CAD), layout and designs, architectural blueprint interpretation, and basic structural wiring diagramming.

### **Graduation Requirements**

Certificate in Drafting and Graphics Technology. WorkKeys® scores of level 4 in Reading for Information, level 4 in Locating Information, and level 4 in Applied Mathematics; cumulative GPA of 2.0 or higher. A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic program may have additional requirements.

AAS in Drafting and Graphics Technology: ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Drafting and Graphics Technology - Certificate (p. 141)

**Gainful Employment Disclosure**: Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following <u>Gainful Employment</u> Disclosure

<u>Drafting and Graphics Technology (Architectural Technology) - Associate of Applied Science</u> (p. 142)

<u>Drafting and Graphics Technology (General Drafting) - Associate of</u>
Applied Science (p. 143)

### DRFT 100. Introduction to Architecture, Engineering, & Construction 3 Credits (3)

Introduction to and exploration of careers in the fields of architecture, engineering, and construction. Specific fields to include: architecture, civil engineering, mechanical engineering, structural engineering, engineering technology, residential construction, commercial construction, geographical information systems (GIS), surveying, sustainable design, and green building. Crosslisted with: ARCH 1310. Restricted to Community Colleges campuses

### DRFT 101. Introduction to Drafting and Design Technologies 1 Credit (1)

Professional and student organizations associated with the Drafting and Design Technologies program, degree requirements, employment skills and work habits, and university and college policies and procedures will be explored. Students will be introduced to the current learning management system and career-readiness certification. Restricted to Community Colleges only.

### DRFT 105. Technical Drawing for Industry 3 Credits (2+2P)

Technical sketching, basic CAD, and interpretation of drawings with visualization, speed and accuracy highly emphasized. Areas of focus include various trades such as machine parts, welding, heating and cooling, and general building sketches/plan interpretation.

### DRFT 108. Drafting Concepts/Descriptive Geometry 2 Credits (1+2P)

Basic manual drafting skills, sketching, terminology and visualization. Graphical solutions utilizing applied concepts of space, planar, linear and point analyses. Metric and S.I. units introduced.

### DRFT 109. Computer Drafting Fundamentals 3 Credits (2+2P)

Introduction to principles and fundamentals of drafting using both manual drawing techniques and computer-aided drafting (CAD) applications. May be repeated up to 3 credits. Crosslisted with: E T 109 and C E 109. Restricted to Community Colleges campuses only.

### DRFT 112. Drafting Concepts/Computer Drafting Fundamentals I 4 Credits (2+4P)

Basic drafting skills, terminology, and visualization. Introduction to principles and fundamentals of computer-aided drafting. Same as F T 106

Prerequisites: OECS 207, OECS 125 or consent of instructor.

### DRFT 113. Drafting Concepts/Computer Drafting Fundamentals II 4 Credits (2+4P)

Drafting for mechanical/industrial applications; machine part detailing, assemblies in orthographic, isometric, auxiliary, oblique, and sectional views. Two-dimensional AutoCAD with introduction to 3-D AutoCAD. Same as E T 216. Restricted to: Community Colleges only.

Prerequisite: DRFT 112.

### DRFT 114. Introduction to Solid Modeling 3 Credits (2+2P)

2D mechanical drafting and 3D mechanical solid modeling utilizing the latest version of AutoCAD software. Industry dimensioning and annotation standards will be emphasized. 2D multi-view working drawings, 3D solid models, and basic 3D model assemblies will be introduced. Restricted to Community Colleges campuses only. **Prerequisite(s):** DRFT 109.

### DRFT 115. General Construction Safety 3 Credits (3)

Overview of general construction safety related to building, highway and road construction, and surveying field work for entry-level individuals. Students will also have the opportunity to earn a 10-hour construction industry OSHA card. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### DRFT 120. Survey Equipment Fundamentals 2 Credits (2)

Introduces the application and the setup to the following surveying equipment: Automatic Level, Total station, and Global Positioning Systems. Field safety knowledge is required. Restricted to Community Colleges only.

### DRFT 124. Introduction to Geometric Dimensioning and Tolerancing 3 Credits (2+2P)

Introduction to geometric dimensioning and tolerancing (GD&T) for the mechanical CAD drafting, solid modeling, mechanical engineering technology, mechanical engineering, and manufacturing industries. Related industry standard finishes and fasteners will also be introduced and explored.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

### DRFT 130. General Building Codes 3 Credits (2+2P)

Interpretation of the Building Code, local zoning codes, A.D.A. Standards and the Model Energy Code to study construction and design requirements and perform basic plan checking. Restricted to: Community Colleges only.

#### DRFT 135. Electronics Drafting I

#### 3 Credits (2+2P)

Drafting as it relates to device symbols; wiring, cabling, harness diagrams and assembly drawings; integrated circuits and printed circuit boards; schematic, flow and logic diagrams; industrial controls and electric power fields. Drawings produced using various CAD software packages.

Prerequisites: DRFT 108 and DRFT 109.

### DRFT 143. Civil Drafting Fundamentals 3 Credits (2+2P)

Introduction to drafting in the field of Civil Engineering. Drawings, projects, and terminologies related to topographic, contour drawings, plan and profiles, and street/highway layout. Crosslisted with: E T 143. Restricted to Community Colleges only.

Prerequisite(s): DRFT 109.

### DRFT 151. Construction Principles and Print Reading 3 Credits (2+2P)

Introduction to construction materials, methods, and basic cost estimating and print reading applicable in today's residential, commercial, and public works industry. Instruction by print reading and interpretation, field trips, and actual job-site visits and progress evaluation.

### DRFT 153. Survey Drafting Applications 3 Credits (2+2P)

Introduction to drafting in the field of survey engineering. Drawings, projects and terminologies related to Point Data, topography, land/boundary surveys, legal descriptions and plat surveys. Using the current Autodesk software. Crosslisted with: SUR 143. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

### DRFT 160. Construction Take-Offs and Estimating 3 Credits (2+2P)

Computing and compiling materials and labor estimates from working drawings using various techniques common in general building construction and in accordance with standard specifications and estimating formats. Use of spreadsheets and estimating software introduced.

Prerequisite: DRFT 151.

#### **DRFT 163. Civil Infrastructure Detailing**

#### 3 Credits (2+2P)

Infrastructure detailing related to civil engineering projects including: ponding, roadway, sewer, and storm-water structures; concrete foundations; and related utility details. Restricted to Community Colleges campuses

Prerequisite(s): DRFT 109.

### DRFT 164. Intermediate Mechanical Drafting/Solid Modeling 3 Credits (2+2P)

Intermediate 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Autodesk Inventor software. The creation of 2D working drawings from 3D solid models will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), basic material properties, and industry standard fastening and manufacturing methods will be introduced.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

### DRFT 165. Introduction to Building Information Modeling 3 Credits (2+2P)

Introduction to Building Information Modeling (BIM) in the development of virtual 3D building models, construction documents, renderings and basic animations related to architectural, structural, and mechanical/electrical/plumbing building components. Utilizes the latest BIM technologies in the integration one, parametric BIM. Restricted to Community Colleges campuses only.

### DRFT 176. Solid Modeling, Rendering and Animation 3 Credits (2+2P)

Introduction to three dimensional drafting and solid modeling, rendering and animation for architecture and engineering fields. Material application, mapping, and scene lighting will be introduced. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

#### **DRFT 180. Residential Drafting**

#### 3 Credits (2+2P)

Basic residential drafting including, floor plans, foundation plans, sections, roof plans, exterior and interior elevations, and site plans. Applicable residential building and zoning codes, construction methods and materials, adaptable residential design, and drawing and sheet layout for architectural drafting will be introduced. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 109.

#### **DRFT 181. Commercial Drafting**

#### 3 Credits (2+2P)

Drafting principles, plan coordination, and code analysis applicable in the development of working drawings for commercial, public, and industrial building projects. Students will utilize National Cad Standards, ADA Standards, and will be introduced to modern office practice. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s)**: DRFT 109.

### DRFT 190. Finding and Maintaining Employment 2 Credits (2)

Techniques in self-evaluations, resume writing, application completion, job interviewing, and job retention. Exposure to work ethics, employee attitudes, and employer expectations.

### DRFT 204. Geographic Information Systems Technology 3 Credits (2+2P)

The use of digital information for which various digitized data creation methods are captured. Users will capture, store, analyze and manage spatially referenced data in a modeled mapping procedure. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### DRFT 214. Advanced Solid Modeling 3 Credits (2+2P)

Advanced 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Solidworks software. The creation of 2D working drawings from 3D solid models and the creation of 3D models for machining/manufacturing will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), material properties, and industry standard fastening and manufacturing methods will be further explored. **Prerequisite(s)/Corequisite(s):** DRFT 114. Restricted to Community Colleges campuses only.

### DRFT 222. Surveying Fundamentals 3 Credits (2+3P)

Theory and practice of geomatics as applied to plane surveying in the areas of linear measurements, angle measurements, area determination, differential and trigonometric leveling, and topographic mapping. Crosslisted with: SUR 222. Restricted to Community Colleges campuses only.

Prerequisite(s): MATH 1250G.

### DRFT 230. Building Systems Drafting 3 Credits (2+2P)

Development of working drawings for electrical, plumbing, and HVAC systems, for residential and commercial building through the applications of both 2D Drafting and 3D Building Information Modeling (BIM) techniques. Basics of project setup, National CAD Standards, ADA Standards, modern office practice, code analysis, as well as Sustainability and LEED for new construction. Restricted to: Community Colleges only. **Prerequisite(s):** DRFT 180 or DRFT 181.

### DRFT 231. Construction Methods and Equipment 3 Credits (2+2P)

Introduction to methods and equipment utilized in the construction industry including, common construction equipment, equipment utilization, equipment operating costs, site and earthwork, applicable specifications and testing, and related planning and safety considerations. Restricted to Community Colleges campuses only. **Prerequisite(s):** DRFT 151.

### DRFT 240. Structural Systems Drafting 3 Credits (2+2P)

Study of foundations, wall systems, floor systems and roof systems in residential, commercial and industrial design/construction. Produce structural drawings including foundation plans, wall and building sections, floor and roof framing plans, shop drawings and details; schedules, materials lists and specifications. Use of various software. May be repeated up to 3 credits.

**Prerequisite(s)/Corequisite(s):** DRFT 180 or DRFT 181. Restricted to Community Colleges campuses only.

#### DRFT 242. Roadway Development Drafting

3 Credits (2+2P)

Advanced civil/survey technology and drafting related to roadway development. Emphasis is on relevant terminology, codes/standards, and the production of complex working drawings such as topographical/grading, drainage, master utilities, roadway P P/details/etc., according to agency standards. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 143.

### DRFT 243. Land Development Drafting 3 Credits (2+2P)

Advanced civil/survey technology and drafting related to land development. Emphasis is on relevant terminology codes/standards, and the production of complex working drawings such as subdivision plats, local utility and drainage plans, construction details roadway P P, etc., according to local development/ agency standards.

Prerequisite: DRFT 143 and DRFT 153.

### DRFT 250. Principles of Detailing and Design 3 Credits (2+2P)

Advanced practice in construction documentation in the development and coordination of working drawings & specifications. In particular, will utilize Architectural Graphic Standards, National CAD Standards, and ADA standards to develop detail drawings related to Architectural, Civil, Structural and Building Mechanical systems. Will also be introduced to basic principles, factors, and process of building design such as space planning, site analysis, and basic architectural programming. May be repeated up to 3 credits.

**Prerequisite(s)/Corequisite(s):** DRFT 180 or DRFT 181. Restricted to Community Colleges campuses only.

### DRFT 254. Spatial Data Processing 3 Credits (2+2P)

Utilizes the tools and technologies of GIS, processing volumes of geodata identifying a numerical, coded or listed map. Involves the analysis of spatial data from various diverse applications and place in a descriptive mapping process. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 204.

### DRFT 255. Independent Study

1-3 Credits (1-3)

Instructor-approved projects in drafting or related topics specific to the student's individual areas of interest and relevant to the drafting and graphics technology curriculum. Consent of instructor required. May be repeated for a maximum of 6 credits.

### DRFT 258. Introduction to Infraworks

3 Credits (2+2P)

Introduction to the utilization of Infraworks software for the conceptualization, optimization, and visualization of infrastructure projects in the context of the built and natural environment. Restricted to Community Colleges campuses

Prerequisite(s): DRFT 143.

### DRFT 261. Construction Scheduling and Project Management 3 Credits (2+2P)

Introduction to construction scheduling and project management. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 161.

### DRFT 265. Advanced Building Information Modeling Applications 3 Credits (2+2P)

Advanced applications of Building Information Modeling (BIM) including the creation of, and practice in collaborative work sets, data and design analyses, energy modeling and analysis, preliminary LEED analysis, construction take-offs & estimation, and construction animation, through use of various BIM and related software. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 165.

#### DRFT 274. GIS Theory and Analysis

#### 3 Credits (2+2P)

Analyzes the hypothesis in which location and spatial data sufficiently quantifies the appropriate statistical methodology. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 254.

### DRFT 276. Computer Rendering and Animation I 3 Credits (2+2P)

Introduction to technical applications of computer generated renderings and animations for the architecture and engineering fields. 3D models, photo-realistic renderings, and basic animation movie files will be produced utilizing industry standard modeling and animation software.

### DRFT 278. Advanced CAD Applications 3 Credits (2+2P)

Introduction to advanced CAD commands, applications, usage techniques, and user customization. the latest version of the National CAD Standards will also be explored. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

### DRFT 288. Portfolio Development 3 Credits (2+2P)

Production of a portfolio consisting of previously produced student work related to the student's individualized degree option. Process shall include the compilation and organization of working and presentation drawings, construction documents, BIM Models, and renderings/animations. Students will learn the basics of design layout and online portfolio documentation. Job search and resume preparation activities will also be required. Production of new material and content may also be required. This course is designed as a last semester course in the Drafting & Design curricula. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of Instructor.

#### **DRFT 290. Special Topics**

#### 1-4 Credits (1-4)

Topics subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

#### **DRFT 291. Cooperative Experience**

#### 1-6 Credits (1-6)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student meets with advisor weekly. Graded S/U.

Prerequisite: consent of instructor.

### DRFT 295. Professional Development and Leadership DAGA 1 Credit (1)

Students gain experience in leadership, team building, performing community service, and membership and/or leadership in a student organization. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

# **Drafting and Graphics Technology - Certificate**

### **Architectural Drafting Option**

Prefix	Title	Credits
Technical Require	ements	
DRFT 101	Introduction to Drafting and Design Technologies	1
DRFT 108	Drafting Concepts/Descriptive Geometry	2
DRFT 109	Computer Drafting Fundamentals	3
DRFT 112	Drafting Concepts/Computer Drafting Fundamentals I	4
DRFT 113	Drafting Concepts/Computer Drafting Fundamentals II	4
DRFT 114	Introduction to Solid Modeling	3
DRFT 130	General Building Codes	3
DRFT 160	Construction Take-Offs and Estimating	3
DRFT 180	Residential Drafting	3
Total Credits		26

### **General Drafting Option**

Prefix	Title	Credits
Technical Requireme	ents	
DRFT 101	Introduction to Drafting and Design Technologies	1
DRFT 108	Drafting Concepts/Descriptive Geometry	2
DRFT 109	Computer Drafting Fundamentals	3
DRFT 112	Drafting Concepts/Computer Drafting Fundamentals I	4
DRFT 113	Drafting Concepts/Computer Drafting Fundamentals II	4
DRFT 130	General Building Codes	3
DRFT 151	Construction Principles and Print Reading	3
DRFT 160	Construction Take-Offs and Estimating	3
DRFT 176	Solid Modeling, Rendering and Animation	3
DRFT 180	Residential Drafting	3
Total Credits		29

## Architectural Drafting A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course First Year Fall	Title	Credits
DRFT 101	Introduction to Drafting and Design Technologies	1
DRFT 112	Drafting Concepts/Computer Drafting Fundamentals I	4
DRFT 130	General Building Codes	3
DRFT 109	Computer Drafting Fundamentals (DRFT elective)	3
	Credits	11

Spring		
DRFT 108	Drafting Concepts/Descriptive Geometry	2
DRFT 113	Drafting Concepts/Computer Drafting Fundamentals II	4
DRFT 160	Construction Take-Offs and Estimating	3
DRFT 180	Residential Drafting	3
DRFT 114	Introduction to Solid Modeling	3
	Credits	15
	Total Credits	26

## **General Drafting**A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
DRFT 101	Introduction to Drafting and Design Technologies	1
DRFT 108	Drafting Concepts/Descriptive Geometry	2
DRFT 112	Drafting Concepts/Computer Drafting Fundamentals I	4
DRFT 130	General Building Codes	3
DRFT 176	Solid Modeling, Rendering and Animation	3
	Credits	13
Spring		
DRFT 113	Drafting Concepts/Computer Drafting Fundamentals II	4
DRFT 151	Construction Principles and Print Reading	3
DRFT 109	Computer Drafting Fundamentals	3
DRFT 160	Construction Take-Offs and Estimating	3
DRFT 180	Residential Drafting	3
	Credits	16
	Total Credits	29

### Drafting and Graphics Technology (Architectural Technology) -Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title		Credits
General Educa	ntion		
Choose one co of 12-14 credit		owing six content areas for a total	12-14
Area I: Cor	nmunications		
Area II: Ma	themathics		
Area III: So	ience		
Area IV: So	cial/Behavioral Science		
Area V: Hu	manities		
Area VI: Cr	eative and Fine Arts		

General Education Elective <sup>2</sup>			
Core Curriculum Requirements			
DRFT 112	Drafting Concepts/Computer Drafting Fundamentals I	4	
DRFT 113	Drafting Concepts/Computer Drafting Fundamentals II	4	
DRFT 130	General Building Codes	3	
DRFT 143	Civil Drafting Fundamentals	3	
DRFT 176	Solid Modeling, Rendering and Animation	3	
DRFT 180	Residential Drafting	3	
DRFT 181	Commercial Drafting	3	
DRFT 288	Portfolio Development	3	
Approved DRFT Electiv	4		
Program Concentration Coursework			
DRFT 160	Construction Take-Offs and Estimating	3	
DRFT 230	Building Systems Drafting	3	
DRFT 240	Structural Systems Drafting	3	
Approved DRFT Electiv	6		
Total Credits		60-63	

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses

### A Suggested Plan of Study

**DRFT 240** 

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
DRFT 112	Drafting Concepts/Computer Drafting Fundamentals I	4
DRFT 130	General Building Codes	3
Approved DRFT electiv	re	2
GEN Ed course - One co	ourse from Areas I-VI <sup>1, 2</sup>	3
	Credits	12
Spring		
DRFT 113	Drafting Concepts/Computer Drafting Fundamentals II	4
DRFT 160	Construction Take-Offs and Estimating	3
GEN Ed course - One course from Areas I-VI 1, 2		3
GEN Ed course - One course from Areas I-VI 1, 2		3-4
Approved DRFT elective		2
	Credits	15-16
Second Year		
Fall		
DRFT 143	Civil Drafting Fundamentals	3
DRFT 180	Residential Drafting	3
DRFT 230	Building Systems Drafting	3
GEN Ed course - One course from Areas I-IV 1, 2		3-4
Approved DRFT Elective		3
	Credits	15-16
Spring		
DRFT 176	Solid Modeling, Rendering and Animation	3

Structural Systems Drafting

3

DRFT 288	Portfolio Development	3
DRFT 181	Commercial Drafting	3
General Education Elective - Any 'G' course <sup>2</sup>		3-4
Approve DRFT Elective		3
	0 "	10.10
	Credits	18-19

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses

### Drafting and Graphics Technology (General Drafting) - Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits	
General Education			
Choose one course from of 12-14 credits <sup>1, 2</sup>	12-14		
Area I: Communica	tions		
Area II: Mathemath	ics		
Area III: Science			
Area IV: Social/Beh	avioral Science		
Area V: Humanities			
Area VI: Creative ar			
General Education Elec	General Education Elective <sup>2</sup>		
Core Curriculum Requirements			
DRFT 112	Drafting Concepts/Computer Drafting Fundamentals I	4	
DRFT 113	Drafting Concepts/Computer Drafting Fundamentals II	4	
DRFT 130	General Building Codes	3	
DRFT 143	Civil Drafting Fundamentals	3	
DRFT 176	Solid Modeling, Rendering and Animation	3	
DRFT 180	Residential Drafting	3	
DRFT 181	Commercial Drafting	3	
DRFT 288	Portfolio Development	3	
Approved DRFT Elective		4	
Program Concentration Coursework			
DRFT 151	Construction Principles and Print Reading	3	
DRFT 276	Computer Rendering and Animation I	3	
Approved DRFT Electives			
Total Credits		60-63	

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
DRFT 112	Drafting Concepts/Computer Drafting Fundamentals I	4
DRFT 130	General Building Codes	3
Approved DRFT elective		2
GEN Ed course - One	course from Areas I-VI <sup>1, 2</sup>	3
	Credits	12
Spring		
DRFT 113	Drafting Concepts/Computer Drafting Fundamentals II	4
DRFT 276	Computer Rendering and Animation I	3
Approved DRFT elect		2
	course from Areas I-VI <sup>1, 2</sup>	3
GEN Ed course - One	course from Areas I-VI <sup>1, 2</sup>	3-4
	Credits	15-16
Second Year		
Fall		
Approved DRFT elect	ive	6
DRFT 143	Civil Drafting Fundamentals	3
DRFT 180	Residential Drafting	3
GEN Ed course - One	course from Areas I-VI <sup>1, 2</sup>	3-4
	Credits	15-16
Spring		
DRFT 151	Construction Principles and Print Reading	3
DRFT 176	Solid Modeling, Rendering and Animation	3
DRFT 181	Commercial Drafting	3
DRFT 288	Portfolio Development	3
General Education Elective - Any 'G' course <sup>2</sup>		3-4
Approved DRFT Elective		
	Credits	18-19
	Total Credits	60-63

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

### **Early Childhood Education**

The **Early Childhood Education** program prepares students to become highly qualified teachers, assistant teachers, family daycare providers, or administrators of early education programs for children ages birth through age eight. Students will gain a broad understanding of the specific needs of young children and develop strategies for meeting those needs.

The **Early Childhood Education Certificate** is a vocational certificate for students who are interested in the field of education for children birth to eight years of age. This Certificate can be the starting point for individuals who want to complete an Associate Degree in Early Childhood Education. The Certificate is 100% embedded in the Early Childhood Education Associate Degree. The Certificate program can be completed

in one year and requires completion of 33 credits. The Associate Degree in Early Childhood Education program can be completed in two years and requires completion of 60 credits.

The course of study provides opportunities for students to gain knowledge in areas such as child development, health and safety, curriculum, professionalism, assessment, and ethics. Students will receive teacher training for work in public and private schools and other settings. Students who complete the Early Childhood Administrative Certificate are eligible to apply for an early childhood administrative specialist certificate with the New Mexico Office of Child Development; the permanent certificate is granted upon completion the Associate Degree in Early Childhood Education.

Early care and education professionals are eligible for a vocational certificate in the area of Early Childhood Educator. The certificate indicates completion of the early childhood "vocational" courses (approximately 29 credit hours) within the associate degree program's transfer module. The Office of Child Development#awards the certificate when the complete course of study is completed. Contact the#State of New Mexico Office of Child Development#for more information.

The Associate Degree in Early Childhood Education includes lower-division courses required for entry into the Teacher Education Program (TEP) at NMSU Las Cruces. Please note that students are required to pass a security background check to take practicum courses. Past criminal violations may prevent a student from completing the degree and from being hired by school systems or other child care facilities upon graduation.

### **Graduation Requirements**

Early Childhood Administrative Certificate: WorkKeys® scores of level 4 in Reading for Information, level 4 in Locating Information, and level 4 in Applied Mathematics; cumulative GPA of 2.0 or higher; the last 15 credits taken at NMSU. Students must complete ENGL 1110G Composition I with a "C" or better. Students are required to pass a security background check in order to take certain courses. Criminal violations may prevent a student from completing the certificate. Students must have a cumulative 2.5 GPA to apply for this certificate, and a 'C' or better is required in all ECED courses. ECED courses taken more than 7 years prior to graduation must be repeated. A 2.5 GPA is required for acceptance into the Teacher Education Program at NMSU. Completion of all requirements does not guarantee acceptance in the NMSU Teacher Education Program.

Associate Degree in Early Childhood Education: ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher; the last 15 credits taken at NMSU.

Early Childhood Education - Certificate (p. 147)

Early Childhood Education - Associate Degree (p. 146)

### ECED 1110. Child Growth, Development, and Learning 3 Credits (3)

This basic course in the growth, development, and learning of young children, prenatal through age eight, provides students with the theoretical foundation for becoming competent early childhood professionals. The course includes knowledge of how young children grow, develop and learn. Major theories of child development are integrated with all domains of development, including biological-physical, social, cultural, emotional, cognitive and language. The adult's role in supporting each child's growth, development and learning is emphasized.

### ECED 1115. Health, Safety, and Nutrition 2 Credits (2)

This course provides information related to standards and practices that promote children's physical and mental well-being sound nutritional practices, and maintenance of safe learning environments. It includes information for developing sound health and safety management procedures for indoor and outdoor learning environments for young children. The course examines the many scheduling factors that are important for children's total development, healthy nutrition, physical activity, and rest.

### ECED 1120. Guiding Young Children 3 Credits (3)

This course explores various theories of child guidance and the practical applications of each. It provides developmentally appropriate methods for guiding children and effective strategies and suggestions for facilitating positive social interactions. Strategies for preventing challenging behaviors through the use of environment, routines and schedule will be presented Emphasis is placed on helping children become self- responsible, competent, independent, and cooperative learners and including families as part of the guidance approach.

### ECED 1125. Assessment of Children and Evaluation of Programs 3 Credits (3)

This basic course familiarizes students with a variety of culturally appropriate assessment methods and instruments, including systematic observation of typically and non-typically developing children. The course addresses the development and use of formative and summative assessment and evaluation instruments to ensure comprehensive quality of the total environment for children, families, and the community. Students will develop skills for evaluating the assessment process and involving other teachers, professionals and families in the process. **Prerequisite(s):** ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

### ECED 1130. Family and Community Collaboration 3 Credits (3)

This beginning course examines the involvement of families and communities from diverse cultural and linguistic backgrounds in early childhood programs. Ways to establishes collaborative relationships with families in early childhood settings is discussed. Families' goals and desires for their children will be supported through culturally responsive strategies.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

#### ECED 2110. Professionalism

#### 2 Credits (2)

This course provides a broad-based orientation to the field of early care and education. Early childhood history, philosophy, ethics and advocacy are introduced. Basic principles of early childhood systems are explored. Multiple perspectives on early care and education are introduced. Professional responsibilities such as cultural responsiveness and reflective practice are examined.

### ECED 2115. Introduction to Language, Literacy, and Reading 3 Credits (3)

This course is designed to prepare early childhood professionals for promoting children's emergent literacy and reading development. Through a developmental approach, the course addresses ways in which early childhood professionals can foster young children's oral language development, phonemic awareness, and literacy problem solving skills, fluency, vocabulary, and comprehension. This course provides the foundation for early childhood professionals to become knowledgeable about literacy development in young children. Instructional approaches and theory-based and research based strategies to support the emergent literacy and reading skills of native speakers and English language learners will be presented.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H, or ENGL 1110M).

### ECED 2120. Curriculum Development through Play Birth through Age 4 (PreK)

#### 3 Credits (3)

The beginning curriculum course places play at the center of curriculum in developmentally appropriate early childhood programs. It addresses content that is relevant for children birth through age four in developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with special needs and the development of IFSPs is included. Curriculum development in all areas, including literacy, numeracy, the arts, health, science, social skills, and adaptive learning for children, birth through age four, is emphasized. Consent of instructor required.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2121.

### ECED 2121. Curriculum Development through Play Birth through Age 4 (PreK) Practicum

#### 2 Credits (2)

The beginning practicum course is a co-requisite with the course Curriculum Development through Play – Birth through Age 4. The field based component of this course will provide experiences that address curriculum content that is relevant for children birth through age four in developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with special needs and the development of IFSPs is included. Curriculum development in all areas, including literacy, numeracy, the arts, health, science, social skills, and adaptive learning for children, birth through age four, is emphasized. Consent of instructor required.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2120.

### ECED 2130. Curriculum Development and Implementation Age 3 (PreK) through Grade 3

#### 3 Credits (3)

The curriculum course focuses on developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Development and implementation of curriculum in all content areas, including literacy, numeracy, the arts, health and emotional wellness, science, motor and social skills, is emphasized. Information on adapting content areas to meet the needs of children with special needs and the development of IEP's is included. Consent of instructor required. **Prerequisite(s):** ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2131.

### ECED 2131. Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum

#### 2 Credits (2)

The beginning practicum course is a co-requisite with the course Curriculum Development and Implementation: Age 3 through Grade 3. The field based component of this course will provide experiences that address developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Development and implementation of curriculum in all content areas, including literacy, numeracy, the arts, health and emotional wellness, science, motor and social skills is emphasized. Information on adapting content areas to meet the needs of children with special needs and the development of IEPs is included. Consent of instructor required. Corequisite(s): ECED 2130

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

### ECED 2140. Effective Program Development for Diverse Learners and their Families

#### 3 Credits (3)

This course addresses the role of a director/administrator in the implementation of family-centered programming that includes individually appropriate and culturally responsive curriculum in a healthy and safe learning environment for all children and their families.

### ECED 2141. Effective Program Development for Diverse Learners and their Families Practicum

#### 2 Credits (2)

Provides opportunities for students to apply knowledge gained from Curriculum for Diverse Learners and their Families in a practicum setting. Consent of instructor required. Restricted to ECED majors.

Corequisite(s): ECED 2140.

#### ECED 2215. Program Management

#### 3 Credits (3)

This course emphasizes the technical knowledge necessary to develop and maintain an effective early care and education program. It focuses on sound financial management and vision, the laws and legal issues that affect programs, and state and national standards such as accreditation. Consent of instructor required.

### ECED 2280. Professional Relationships 3 Credits (3)

This course addresses staff relations that will foster diverse professional relationships with families, communities and boards. Topics of staff recruitment, retention, support and supervision will lay the foundation for positive personnel, family and community relationships. Consent of instructor required.

Corequisite(s): ECED 2281.

### ECED 2281. Professional Relationships Practicum 2 Credits (2)

Practical experience in the development of staff relationship that will foster professional relationships with families, communities and boards. Issues of staff recruitment, retention, support and supervision will lay a foundation for positive personnel management. Consent of instructor required. Restricted to ECED majors.

Corequisite(s): ECED 2280.

# Early Childhood Education - Associate Degree

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Area I: Communications		
English Comosition - Le	vel 1	
ENGL 1110G	Composition I	4
English Composition - L	evel 2	
Choose one from the fo	ollowing:	3
ENGL 2210G	Professional & Technical Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
Oral Communication		
Choose one from the fo	ollowing:	3
COMM 1115G	Introduction to Communication	
or COMM 1130G	Public Speaking	
Area II: Mathematics		
Choose one from the fo	ollowing:	3
MATH 2134G	Fundamentals of Elementary Math II <sup>1</sup>	
or MATH 1220G	College Algebra	
	Science and Social/Behavioral Sciences	11
Area III: Laboratory	Science	
Choose two course	s from two different areas (8 credits)	
ASTR 1120G	The Planets	
or ASTR 1115G	Introduction Astro (lec+lab)	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and	
& BIOL 2610L	Evolution	
	and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
BIOL 2110G	Principles of Biology: Cellular and Molecular	
& BIOL 2110L	Biology	
	and Principles of Biology: Cellular and	
OUEM 11000	Molecular Biology Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
ENVS 1110G	Environmental Science I	
GEOL 1110G	Physical Geology	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab	
Area IV: Social/Beh	avioral Sciences	
Choose one from th	ne following (3 credits):	

Total Credits		60
Electives, to bring the	total credits to 60 °	1
ECED 1120	Guiding Young Children	3
ECED 2110	Professionalism	2
ECED 2115	Introduction to Language, Literacy, and Reading	3
ECED 2131	Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum	2
ECED 2130	Curriculum Development and Implementation Age 3 (PreK) through Grade 3	3
ECED 2121	Curriculum Development through Play Birth through Age 4 (PreK) Practicum	2
ECED 2120	Curriculum Development through Play Birth through Age 4 (PreK)	3
ECED 1130	Family and Community Collaboration	3
ECED 1115	Health, Safety, and Nutrition	2
ECED 1110	Child Growth, Development, and Learning	3
Professional Education	Courses <sup>2</sup>	
Core Requirements		
CEPY 1120G	Human Growth and Behavior (Recommended)	3
General Education Elect	tive	
THEA 1110G	Introduction to Theatre	
MUSC 1130G	Music Appreciation: Western Music	
ARTH 1115G	Orientation in Art	
Choose one from the f	ollowing:	3
Area VI: Creative and Fi	•	
HIST 1140G	World History II	
HIST 1130G	World History I	
HIST 1120G	United States History II	
Choose one of the follo	owing:	3
Area V: Humanities	introduction to doctology	
or SOCI 1110G	Introduction to Psychology	
PSYC 1110G	Introduction to Psychology	
or POLS 1110G	Introduction to Political Science	
POLS 1120G	Human Geography American National Government	
GEOG 1120G GEOG 1130G	World Regional Geography	
0500 11000	Warld Danianal Oasananha	

- MATH 2134G Fundamentals of Elementary Math II requires a prerequisite of a grade of C or better in MATH 1134 Fundamentals of Elementary Mathematics I. MATH 1220G College Algebra requires a prerequisite of a grade of C or better in MATH 1215 Intermediate Algebra.
- Cumulative GPA of 2.5 and a 'C' or better required in these courses. CEPY, ECED, and ELAD courses taken more than 7 years prior to graduation must be repeated.
- Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor.

### A Suggested Plan of Study

Title

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

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Course	Title	Credits
First Year		
Fall		
CEPY 1120G	Human Growth and Behavior	3
ECED 1110	Child Growth, Development, and Learning	3
ECED 1115	Health, Safety, and Nutrition	2
ECED 1120	Guiding Young Children	3
ENGL 1110G	Composition I	4
	Credits	15
Spring		
ECED 1130	Family and Community Collaboration	3
ECED 2110	Professionalism	2
ECED 2115	Introduction to Language, Literacy, and Reading	3
Choose one from the f	ollowing:	3
HIST 1110G	United States History I	
or HIST 1120G	or United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
Choose one from the f	ollowing:	3
ARTH 1115G	Orientation in Art	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
Elective Course <sup>1</sup>		1
	Credits	15
Second Year		
Fall		
ECED 2120	Curriculum Development through Play Birth through Age 4 (PreK) <sup>2</sup>	3
ECED 2121	Curriculum Development through Play Birth through Age 4 (PreK) Practicum <sup>2</sup>	2
COMM 1130G	Public Speaking	3
or COMM 1115G	or Introduction to Communication	
ž.	iences (choose two from two different areas.	8
Must include lab) 3		
	Credits	16
Spring	4	
Area IV: Social/Behavio		3
ENGL 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science	3
ECED 2130	Curriculum Development and Implementation Age 3 (PreK) through Grade 3	3
ECED 2131	Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum	2
MATH 2134G or MATH 1220G	Fundamentals of Elementary Math II <sup>3</sup> or College Algebra	3
	Credits	14
	Total Credits	60

- Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor.
- ECED 2120 Curriculum Development through Play Birth through Age 4 (PreK) and ECED 2121 Curriculum Development through Play Birth through Age 4 (PreK) Practicum must be taken before ECED 2130 Curriculum Development and Implementation Age 3 (PreK) through Grade 3 and ECED 2131 Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum.
- Area III: Science. Please choose two from:
  ASTR 1120G The Planets, ASTR 1115G Introduction Astro (lec +lab), BIOL 1120G Human Biology, BIOL 1120L Human Biology
  Laboratory, BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution, BIOL 2610L Principles of Biology: Biodiversity,
  Ecology, and Evolution Laboratory, BIOL 2110G Principles of Biology:
  Cellular and Molecular Biology, BIOL 2110L Principles of Biology:
  Cellular and Molecular Biology Laboratory, CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors), CHEM 1215G
  General Chemistry I Lecture and Laboratory for STEM Majors,
  ENVS 1110G Environmental Science I, GEOL 1110G Physical Geology,
  PHYS 1115G Survey of Physics with Lab, PHYS 1230G Algebra-Based
  Physics I, PHYS 1230L Algebra-Based Physics I Lab.
- Area IV: Social/Behavioral Science. Choose one from:
  ANTH 1140G Introduction to Cultural Anthropology, GEOG 1120G
  World Regional Geography, GEOG 1130G Human Geography,
  POLS 1120G American National Government, POLS 1110G
  Introduction to Political Science, PSYC 1110G Introduction to
  Psychology, SOCI 1110G Introduction to Sociology.
- MATH 112G Fundamentals of Elementary Math II requires a prerequisite of a grade of C or better in MATH 111 Fundamentals of Elementary Mathematics I.
- MATH 121G College Algebra requires a prerequisite of a grade of C or better in MATH 120 Intermediate Algebra.

### **Early Childhood Education Certificate**

Prefix	Title	Credits
Related Requirements		
ENGL 1110G	Composition I	4
Professional Education	n Courses <sup>2</sup>	29
ECED 1110	Child Growth, Development, and Learning	
ECED 1115	Health, Safety, and Nutrition	
ECED 1130	Family and Community Collaboration	
ECED 2120	Curriculum Development through Play Birth through Age 4 (PreK)	
ECED 2121	Curriculum Development through Play Birth through Age 4 (PreK) Practicum	
ECED 2130	Curriculum Development and Implementation Age 3 (PreK) through Grade 3	
ECED 2131	Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum	
ECED 2115	Introduction to Language, Literacy, and Reading	
ECED 2110	Professionalism	
ECED 1125	Assessment of Children and Evaluation of Programs	

ECED 1120	Guiding Young Children	
Total Credits		33

- Students must complete ENGL 1110G Composition I with a 'C' or better.
- Students must have a cumulative 2.5 GPA to apply for this certificate, and a 'C' or better is required in all ECED courses. ECED courses taken more than 7 years prior to graduation must be repeated.

Course First Year Fall	Title	Credits
ENGL 1110G	Composition I	4
ECED 1110	Child Growth, Development, and Learning	3
ECED 1115	Health, Safety, and Nutrition	2
ECED 2110	Professionalism	2
ECED 1120	Guiding Young Children	3
	Credits	14
Summer		
ECED 1130	Family and Community Collaboration	3
	Credits	3
Second Year		
Spring		
ECED 2120	Curriculum Development through Play Birth through Age 4 (PreK)	3
ECED 2121	Curriculum Development through Play Birth through Age 4 (PreK) Practicum	2
ECED 2130	Curriculum Development and Implementation Age 3 (PreK) through Grade 3	3
ECED 2131	Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum	2
ECED 2115	Introduction to Language, Literacy, and Reading	3
ECED 1125	Assessment of Children and Evaluation of Programs	3
	Credits	16
	Total Credits	33

It is highly recommended that students follow the roadmap because of required prerequisites and corequisites on some courses.

### **Education**

The **Associate Degree in Education** prepares students for work as a teacher's aide, substitute teacher or other paraprofessional in elementary or secondary schools. The curriculum is designed for maximum transfer of credits to the Teacher Education Program (TEP) at NMSU for those students planning to complete the Bachelor's Degree in Education. Note: Completion of the Associate degree in Education does not guarantee admission into the TEP.

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Education - Associate Degree (p. 148)

#### **EDUC 1110. Freshman Orientation**

#### 1 Credit (1)

Introduction to the university and to the College of Education. Discussion of planning for individualized education program and field experience. Restricted to Las Cruces campus only.

#### EDUC 1120. Introduction to Education

#### 2 Credits (2)

Introduction to the historical, philosophical, sociological foundations of education, current trends, and issues in education; especially as it relates to a multicultural environment. Students will use those foundations to develop effective strategies related to problems, issues and responsibilities in the field of education. Restricted to Las Cruces campus only.

#### EDUC 1140. Math for Paraprofessionals

#### 3 Credits (3)

Applied math skills for paraprofessionals working with children.

Prerequisite: CCDM 103 N.

#### EDUC 1150. Math for Paraprofessionals II

#### 3 Credits (3)

Applied math skills for paraprofessionals working under the direction of a teacher.

Prerequisite(s): EDUC 1140.

### EDUC 1185. Introduction to Secondary Education and Youth 3 Credits (3)

Introductory course for students considering a career in secondary education. Includes historical, philosophical, and sociological foundations, program organization, critical dispositions, and understanding the context of schools and youth. Practicum required. Restricted to: Secondary Ed majors. Traditional Grading with RR.

#### EDUC 1995. Field Experience I

#### 1 Credit (1)

Introduction to public school teaching, school visits, classroom observations and discussion seminar.

#### **EDUC 1996. Special Topics in Education**

#### 1 Credit (1)

Supervised study in a specific area of interest. Each course shall be designated by a qualifying subtitle. May be repeated for a maximum of 9 credits.

#### EDUC 1998. Internship I

#### 3 Credits (3)

Supervised experience in elementary education settings.

#### EDUC 2710. Pre-Teacher Preparation

#### 3 Credits (3)

Assists students in developing the necessary competencies needed for acceptance to the Teacher Education Program. Course content includes basic skill development, test taking skills, and completion of teacher preparation packet. Maybe repeated for a maximum of 6 credits. Graded S/U. Community Colleges only.

#### EDUC 2998. Internship II

#### 3 Credits (3)

Supervised experience in junior high settings.

Prerequisite: must be a co-op student.

### **Education - Associate Degree**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at

least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Area I: Communication		
English Composition - L	evel 1	
ENGL 1110G	Composition I	4
English Composition - L	evel 2	
Choose one from the fo	ollowing:	3
ENGL 2210G	Professional & Technical Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
Oral Communication		
Choose one from the fo	ollowing:	3
COMM 1130G	Public Speaking	
or COMM 1115G	Introduction to Communication	
Area II: Mathematics		
Choose one class base	ed on your major.	3
MATH 1220G	College Algebra (Secondary Education Majors)	
MATH 2134G	Fundamentals of Elementary Math II (Elementary Education Majors) <sup>1</sup>	
Area III/IV: Laboratory S	ciences and Social/Behavioral Sciences	11
Area III: Laboratory		
Choose two from to lab):	vo different areas for 8 credits (Must inlcude	
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
BIOL 2110G & BIOL 2110L	Principles of Biology. Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
ENVS 1110G	Environmental Science I	
GEOL 1110G	Physical Geology	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G	Algebra-Based Physics I	
Area IV: Social & Be	-	
Choose one from th	e following:	
ANTH 1140G	Introduction to Cultural Anthropology	
GEOG 1120G	World Regional Geography	
GEOG 1130G	Human Geography	
POLS 1110G	Introduction to Political Science	
POLS 1120G	American National Government	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
Area V: Humanities		
Choose one from the fo	ollowing:	3

HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
Area VI: Creative and F	,	
Choose one from the		3
ARTH 1115G	Orientation in Art	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
General Education Elec	tive	
CEPY 1120G	Human Growth and Behavior	3
Major Requirements		
Professional Education	Courses <sup>2</sup>	
	l Mathematics class based on your major	3
MATH 1220G	College Algebra (Elementary Education Majors)	
MATH 1130G	Survey of Mathematics (Secondary Education Majors)	
CEPY 2110	Learning in the Classroom	3
EDLT 2110	Integrating Technology with Teaching	3
BLED 1110	Introduction n Bilingual Education/ESL	3
BLED 2110	Bilingual Methods	3
EDUC 2710	Pre-Teacher Preparation (Pre-Teacher Preparation I)	3
EDUC 2710	Pre-Teacher Preparation (Pre-Teacher Preparation II)	3
Electives, to bring the	total credits to 60 <sup>3</sup>	6-7
One elective must be	from the following:	
BCIS 1110	Introduction to Information Systems	
ECED 2215	Program Management	
ECED 2140	Effective Program Development for Diverse Learners and their Families	
SPAN 1110	Spanish I <sup>4</sup>	
SPAN 2120	Spanish IV	
Total Credits		60-61

- Note: MATH 2134G Fundamentals of Elementary Math II & MATH 1220G College Algebra or MATH 1220G College Algebra& MATH 1130G Survey of Mathematics must be completed together.
- Cumulative GPA of 2.5 and a "C" or better required in these courses. CEPY, EDLT, & EDUC courses taken more than 7 years prior to graduation must be repeated.
- Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.
- SPAN 1110 Spanish I is recommended as an elective.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
ENGL 1110G	Composition I	4

	Total Credits	60-61
	Credits	15-16
SPAN 2120	Spanish IV	
SPAN 1110	Spanish I	
ECED 2140	Effective Program Development for Diverse Learners and their Families	
ECED 2215	Program Management	
BCIS 1110	Introduction to Information Systems	
Choose one from the	•	3-4
Elective Course	6-Uarrian	2
Area VI: Creative and	Fine Arts Course	3
A 1/1 0 ::	Preparation II)	
EDUC 2710	Pre-Teacher Preparation (Pre-Teacher	3
EDLT 2110	Integrating Technology with Teaching	3
Spring COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
	Credits	15
Area V: Humanities C	ourse <sup>4</sup>	3
Elective Course <sup>3</sup>		3
ENGL 2221G	Writing in the Humanities and Social Science	
ENGL 2210G	Professional & Technical Communication	
Choose one from the	following:	3
EDUC 2710	Pre-Teacher Preparation (Pre-Teacher Preparation I)	3
CEPY 2110	Learning in the Classroom	3
Fall		
Second Year		
	Credits	14
	ory Science Courses <sup>2</sup>	8
BLED 2110	Bilingual Methods	3
MATH 1130G	Survey of Mathematics (Secondary Education Majors)	
MATH 1220G	College Algebra (Elementary Education Majors)	
Choose one additiona	al Mathematics class based on your major.	3
Spring	orcans	10
Alea IV. Social/ Dellav	Credits	16
Area IV: Social/Robay	(Elementary Education Majors) vioral Sciences Course 1	3
MATH 2134G	Fundamentals of Elementary Math II	
MATH 1220G	College Algebra (Secondary Education Majors)	
Choose one class ba	sed on your major.	3
BLED 1110	Introduction n Bilingual Education/ESL	3
CEPY 1120G	Human Growth and Behavior	3

- Area IV: Social/Behavioral Sciences Courses:
  - · ANTH 1140G Introduction to Cultural Anthropology
  - GEOG 1120G World Regional Geography
  - · GEOG 1130G Human Geography
  - POLS 1120G American National Government
  - POLS 1110G Introduction to Political Science
  - PSYC 1110G Introduction to Psychology
  - · SOCI 1110G Introduction to Sociology

#### Area III: Laboratory Science Courses:

- · ASTR 1115G Introduction Astro (lec+lab)
- · ASTR 1120G The Planets
- BIOL 1120G Human Biology/BIOL 1120L Human Biology Laboratory
- CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non maiors)
- CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors
- ENVS 1110G Environmental Science I
- · GEOL 1110G Physical Geology
- · Approved GEOL course
- · PHYS 1115G Survey of Physics with Lab
- PHYS 1230G Algebra-Based Physics I/PHYS 1230L Algebra-Based Physics I Lab
- Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor.

#### Area V: Humanities Courses:

- · HIST 1130G World History I
- · HIST 1140G World History II
- · HIST 1110G United States History I
- HIST 1120G United States History II

#### Area VI: Creative and Fine Arts Courses:

- · ARTH 1115G Orientation in Art
- · MUSC 1130G Music Appreciation: Western Music
- THEA 1110G Introduction to Theatre

### **Emergency Medical Technician**

The Emergency Medical Technician program prepares students for employment as Emergency Medical Technicians (EMT) in fire departments, private ambulance services, and hospital-based systems. The curriculum focuses on the study of anatomy and physiology, the pathophysiology of diseases, traumatic injuries, pharmacology, and cardiac care. Students will develop their knowledge and skill through both laboratory and clinical field experiences.

### **Graduation Requirements**

Certificate in Emergency Medical Technician – Basic, Intermediate, and Paramedic: WorkKeys® scores of level 5 in Reading for Information, level 5 in Locating Information, and level 4 in Applied Mathematics; cumulative GPA of 2.0 or higher. A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

AAS in Emergency Medical Services: ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

#### **Program Entrance Requirements**

For all EMT programs, students must be able to lift at least 120 pounds and work in adverse weather conditions.

- · EMT Basic: No pre-requisites
- · EMT Intermediate
  - · Successful completion of EMT Basic coursework
  - · TB skin test done within the last year
  - EMT-Basic license in hand by the end of the sixth week of EMT-Intermediate classes
- · EMT Paramedic
  - EMT Basic or EMT Intermediate license
  - Written, oral, and practical assessment at the EMT Basic or EMT Intermediate level depending on current licensure
  - HOBET exam
  - · Copy of current health care provider CPR card
  - Completed departmental application including resume, letter of intent, and recommendation letters
  - · TB skin test done within the last year

Emergency Medical Technician Basic - Certificate (p. 153)

Emergency Medical Technician Intermediate - Certificate (p. 153)

Emergency Medical Technician Paramedic - Certificate (p. 155)

Gainful Employment Disclosure: Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following <a href="Gainful Employment">Gainful Employment</a> Disclosure

Emergency Medical Technician Paramedic - Associate of Applied Science (p. 154)

### OEEM 101. CPR for the Health Care Professional 1 Credit (1)

Students learn identification and response to airway and circulation emergencies, including use of a SAED and accessing the EMS system. This course is taught using the American Heart Association guidelines for course completion. Required: grade of C or better.

### OEEM 103. Heartsaver First Aid/CPR 1 Credit (1)

Students learn how to identify and respond to airway, circulation and basic first aid emergencies, to include using a SAED and accessing the EMS system. This course is intended for students who are not Allied Health Majors and utilizes the American Heart Association guidelines for course completion. Restricted to: Community Colleges only.

### OEEM 106. Advanced First Aid 2 Credits (2)

Theory and advanced first aid skills taught emphasizing recognition and providing care for injury or sudden illness until professional medical help arrives. Course meets and/or exceeds the Red Cross or National Safety Council standards. Corequisite(s): OEEM 101

### OEEM 115. First Responder Prehospital Professional 3 Credits (2+3P)

Provides training in prehospital medical and traumatic emergencies. Consent of instructor required. Requires a C or better to pass. Restricted to majors.

Corequisite(s): OEEM 101.

### OEEM 120. Emergency Medical Technician Basic 6 Credits (6)

EMT-Basic skills to include care of soft tissue and muscular/skeletal injuries, circulatory, nervous, general medical and respiratory emergencies. Requires a 'C' or better to pass. May be repeated up to 6 credits. Consent of Instructor required.

Corequisite(s): OEEM 101, OEEM 120L, OEEM 121.

**Prerequisite(s)/Corequisite(s):** OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

### OEEM 120 L. Emergency Medical Technician Basic Lab 2 Credits (6P)

EMT-Basic skills development with emphasis on assessment, skills competency and team-work in patient care in the prehospital setting. May be repeated up to 2 credits.

Corequisite(s): OEEM 101, OEEM 120, OEEM 121.

**Prerequisite(s)/Corequisite(s):** OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

### OEEM 121. Emergency Medical Technician Basic Field/Clinical 1 Credit (3P)

Covers the patient care experience provided through assigned shifts in the hospital and/or ambulance setting. Requires a 'C' or better to pass. May be repeated up to 1 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): OEEM 101, OEEM 120, OEEM 120L

OEEM 153. Restricted to: OEEM majors. Restricted to Community

Colleges campuses only.

#### OEEM 122. Emergency Medical Technician Basic Advanced Field/ Internship

#### 2 Credits (6P)

Expanded patient care experience provided through assigned shifts in the hospital and/or ambulance setting. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Current EMT-basic license and consent of instructor.

### OEEM 150. Emergency Medical Technician Intermediate 5 Credits (5)

Theory of the roles, responsibilities and scope of practice of the EMT-Intermediate. Assessment and management of respiratory, cardiac, trauma, environmental, behavior, reproduction, and childhood emergencies. May be repeated up to 5 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Current EMT-basic license, pretest and consent of instructor.

### OEEM 150 L. Emergency Medical Technician Intermediate Lab 2 Credits (6P)

EMT-Intermediate skills development with an emphasis on assessment, skills competency, and team work in patient care in the prehospital setting. Requires a C or better to pass.

**Prerequisite(s)/Corequisite(s):** OEEM 150,0EEM 151. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

### OEEM 151. Emergency Medical Technician Intermediate Field/Clinical 2 Credits (6P)

Patient care experience provided through assigned shifts in the hospital and/or ambulance setting.

**Prerequisite(s)/Corequisite(s):** OEEM 150, OEEM 150 L. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

### OEEM 153. Introduction to Anatomy and Physiology for the EMS Provider 3 Credits (3)

To properly assess and manage a patient, a prehospital provider must have a solid foundation in human anatomy and physiology. This course provides a systematic approach to building this foundation. Grade of 'C' or better is required to pass the course. Consent of Instructor required. Restricted to Community Colleges campuses only.

#### **OEEM 155. Special Topics**

#### 1-6 Credits

Specific topics to be listed in Schedule of Classes. May be repeated for a maximum of 10 credits.

### OEEM 158. Emergency Medical Technician-Combination Refresher 2 Credits (2)

A comprehensive review of prehospital medicine for the prehospital care provider from the first responder level through the EMT Intermediate. New material relevant to recertification of the New Mexico First Responder, EMT Basic and EMT Intermediate licensure included. Graded S/U.

### OEEM 177. Emergency Medical Services Instructor 4 Credits (4)

Theory of student learning, methodology, instructional components, evaluation, and course coordination for the EMS profession. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): Minimum of an EMT-Basic License required.

### OEEM 201. Human Pathophysiology 3 Credits (2+3P)

Overview of anatomy and physiology. Emphasis on human body pathophysiology including a medical illness component. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 120, OEEM 120 L.

### OEEM 202. EMT-Paramedic Respiratory Emergencies 3 Credits (2+3P)

Review anatomy, physiology and pathophysiology of the respiratory system. Assessment and management of respiratory emergencies and acute respiratory failure in the prehospital setting. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 212.

### OEEM 203. EMT-Paramedic Trauma Emergencies 3 Credits (2+3P)

Study of the effects of trauma on the human body. Assessment and management of trauma patients and scenes, including vehicular extrication. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 216.

### OEEM 206. Introduction to Advanced Prehospital Care 3 Credits (2+3P)

Overview of prehospital care including roles and responsibilities of EMT-P, EMS systems, medical, legal, ethical issues, stress management, medical terminology, medical report writing and communication. Includes ridealong with ambulance and dispatch observation. Requires a C or better to pass. Restricted to majors. Consent of instructor required. Restricted to: Community Colleges only. Restricted to OEEM majors.

Prerequisite(s): OEEM 120.

### OEEM 207. Introduction to Pharmacology 3 Credits (2+3P)

Drug actions, factors modifying drugs and dosages: characteristics of drug effects, and drug history and dosages. Prehospital protocol, transport, and common patient prescription medications. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only. Restricted to OEEM majors.

Prerequisite(s): OEEM 120.

### OEEM 210. Cardiac Rhythm Interpretation 3 Credits (2+3P)

Cardiac conduction system: electrophysiology, electrocardiogram, monitor, atrial, sinus, ventricular and junctional dysrhythmias, multiple lead EKG and 12 lead EKG interpretation. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 201, OEEM 206, OEEM 207.

### OEEM 212. EMT-Paramedic Cardiovascular Emergencies 3 Credits (2+3P)

Review anatomy, physiology, and pathophysiology of cardiovascular system. Assessment and management of cardiovascular emergencies in the prehospital setting. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 210.

### OEEM 213. EMT-Paramedic: Medical Emergencies I 3 Credits (2+3P)

Study of the disease process; assessment and management of neurological, endocrine, gastrointestinal, renal emergencies and infectious disease. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 212.

### OEEM 214. EMT--Paramedic: Medical Environmental Emergencies II 3 Credits (2+3P)

Study of disease process, assessment, and management of poisoning, drug and alcohol abuse, environmental, behavioral and geriatric emergencies. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 213.

### OEEM 216. EMT-Paramedic: Reproductive and Childhood Emergencies 3 Credits (2+3P)

Covers anatomy, physiology, disease processes, assessment and management of male and female reproductive system emergencies, childhood emergencies and growth and development. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only.

Prerequisite(s): OEEM 214 and consent of instructor.

### OEEM 218. Pediatric Advance Life Support for the Healthcare Professional

#### 1 Credit (1)

Identify and respond to life threatening pediatric emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEM 101.

### OEEM 219. Advance Cardiac Life Support for the Healthcare Provider 1 Credit (1)

Identify and respond to life threatening cardiac emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEM 101.

### OEEM 230. EMT-Paramedic Clinical Experience I 3 Credits (9P)

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

### OEEM 231. EMT-Paramedic Clinical Experience II 3 Credits (9P)

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required.

**Prerequisite(s)/Corequisite(s):** OEEM 230. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

### OEEM 240. EMT-Paramedic Field Experience I 3 Credits (9P)

Advanced prehospital skills and knowledge. Successful completion of at least the minimum required hours and course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

### OEEM 241. EMT-Paramedic Field Experience II 3 Credits (9P)

Continued focus on advanced prehospital skills and knowledge, with increasing responsibility for patient care. Successful completion includes meeting at least the minimum required hours and course objectives.

Prerequisite(s)/Corequisite(s): OEEM 240. Requires a C- or better to pass.

### OEEM 242. EMT-Paramedic Field Internship 3 Credits (9P)

Emphasis on total patient care responsibility and team leadership skills. Successful completion includes meeting the minimum hours required and course objectives. Pre/ Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEEM 231, OEEM 241.

### OEEM 243. EMT-Paramedic Preparation for Practice 2 Credits (2)

Comprehensive final program testing to prepare for licensing examination. Requires a 'C' or better to pass. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 242.

### OEEM 247. Emergency Medical Technician - Paramedic Refresher 2 Credits (1+3P)

A comprehensive review of prehospital emergency medicine for the EMT Paramedic. New material relevant to recertification of the New Mexico and Nationally Registered Paramedic licensure. Graded S/U.

### OEEM 253. Critical Care Emergency Medical Transport Program 6 Credits (5+6P)

This course will provide further education to Paramedics, Registered Nurses and Registered Respiratory Therapists who wish to function as part of a critical care transport team. Consent of instructor required. Restricted to: Community Colleges only.

**Prerequisite(s):** Licensed Paramedic, Registered Nurse or Registered Respiratory Therapist with one or more years experience.

## **Emergency Medical Technician Basic** - Certificate

Prefix	Title	Credits
General Education and	d Common Core Requirements	
ENGL 1110G	Composition I	4
OATS/NURS 150	Medical Terminology	3
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
Program Requirement	ts <sup>1</sup>	
OEEM 101	CPR for the Health Care Professional	1
OEEM 120	Emergency Medical Technician Basic <sup>2</sup>	6
OEEM 120 L	Emergency Medical Technician Basic Lab <sup>2</sup>	2
OEEM 121	Emergency Medical Technician Basic Field/ Clinical <sup>2</sup>	1
Total Credits		20

- Courses must be taken concurrently.
- OEEM 120 Emergency Medical Technician Basic, OEEM 120 L Emergency Medical Technician Basic Lab and OEEM 121 Emergency Medical Technician Basic Field/Clinical must be completed with a C or higher.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
ENGL 1110G	Composition I	4
OATS 150 or NURS 150	Medical Terminology or Medical Terminology	3
COMM 1130G	Public Speaking	3
or COMM 1115G	or Introduction to Communication	
	Credits	10
Spring		
OEEM 101	CPR for the Health Care Professional	1
OEEM 120	Emergency Medical Technician Basic	6
OEEM 120 L	Emergency Medical Technician Basic Lab	2
OEEM 121	Emergency Medical Technician Basic Field/ Clinical	1
	Credits	10
	Total Credits	20

### **Emergency Medical Technician Intermediate - Certificate**

All courses must be completed with a C or higher.

Prefix	Title	Credits
General Education and	d Common Core Requirements	
ENGL 1110G	Composition I	4
OATS/NURS 150	Medical Terminology	3
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
MATH 1215	Intermediate Algebra	3
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
DIOL COOF		4
BIOL 2225	Human Anatomy and Physiology II	4
Program Requirement	s'	
OEEM 150	Emergency Medical Technician Intermediate	5
OEEM 150 L	Emergency Medical Technician Intermediate Lab	2
OEEM 151	Emergency Medical Technician Intermediate Field/Clinical	2
Total Credits		30

Students must enroll in these courses concurrently and score at least 80% on all departmental exams.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course First Year	Title	Credits
Fall		
ENGL 1110G	Composition I	4
OATS 150 or NURS 150	Medical Terminology or Medical Terminology	3
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
	Credits	11
Spring		
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
MATH 1215	Intermediate Algebra	3
BIOL 2225	Human Anatomy and Physiology II	4
	Credits	10
Second Year Fall		
OEEM 150	Emergency Medical Technician Intermediate	5
OEEM 150 L	Emergency Medical Technician Intermediate Lab	2
OEEM 151	Emergency Medical Technician Intermediate Field/Clinical	2
	Credits	9
	Total Credits	30

### Emergency Medical Technician Paramedic - Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 87-94 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Credits

All courses must be completed with a C or higher.

Title

Prefix

FIELIX	ritie	Credits
General Education		
Choose one course fro of 12-14 credits. <sup>1, 2</sup>	m four of the following six content areas for a total	12-14
- '	courses from Areas I and IV students must select remaining areas to complete General Education	
Area I: Communic	ations	
ENGL 1110G	Composition I (Recommended)	
Area II: Mathemat	ics	
Area III: Laborator	y Science	
Area IV: Social/Be	havioral Science	
PSYC 1110G	Introduction to Psychology (Recommended (either))	
or SOCI 1110G	Introduction to Sociology	
Area V: Humanitie	s	
Area VI: Creative a		
General Education Elec	ctive <sup>2</sup>	3-4
ENGL 2210G	Professional & Technical Communication (Recommended (either))	
or		
COMM 1130G	Public Speaking (Recommended (either))	
or COMM 1115	G Introduction to Communication	
Core Requirements		
Common Core		
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
BIOL 2225	Human Anatomy and Physiology II	4
MATH 1215	Intermediate Algebra	3
OATS/NURS 150	Medical Terminology	3
Supplemental Require	ments <sup>3</sup>	
OEEM 150	Emergency Medical Technician Intermediate	5
OEEM 150 L	Emergency Medical Technician Intermediate Lab	2
OEEM 151	Emergency Medical Technician Intermediate Field/Clinical	2
Approved OEEM Elec	tive	1-3
Approved OEEM Elec	tive	1-3
<b>Major Requirements</b>		
OEEM 201	Human Pathophysiology	3
OEEM 202	EMT-Paramedic Respiratory Emergencies	3
OEEM 203	EMT-Paramedic Trauma Emergencies	3
OEEM 206	Introduction to Advanced Prehospital Care	3
OEEM 207	Introduction to Pharmacology	3
OEEM 210	Cardiac Rhythm Interpretation	3
OEEM 212	EMT-Paramedic Cardiovascular Emergencies	3
OEEM 213	EMT-Paramedic: Medical Emergencies I	3
OEEM 214	EMT-Paramedic: Medical Environmental Emergencies II	3
OEEM 216	EMT-Paramedic: Reproductive and Childhood Emergencies	3

OEEM 230	EMT-Paramedic Clinical Experience I	3
OEEM 231	EMT-Paramedic Clinical Experience II	3
OEEM 240	EMT-Paramedic Field Experience I	3
OEEM 242	EMT-Paramedic Field Internship	3
OEEM 243	EMT-Paramedic Preparation for Practice	2
Approved OEEM	Elective	3
Total Credits		87-94

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses
- Complete as needed according to program director.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
OATS 150 or NURS 150	Medical Terminology or Medical Terminology	3
BIOL 2210	Human Anatomy and Physiology I for the	4
	Health Sciences	·
GEN Ed Course – On	e course from Areas I-VI <sup>1, 2</sup>	3
	Credits	10
Spring		
GEN Ed Course – On	e course from Areas I-VI <sup>1, 2</sup>	3
MATH 1215	Intermediate Algebra	3
BIOL 2225	Human Anatomy and Physiology II	4
GEN Ed Course - On	e course from Areas I-VI <sup>1, 2</sup>	3-4
	Credits	13-14
Second Year		
Fall		
OEEM 206	Introduction to Advanced Prehospital Care	3
OEEM 150	Emergency Medical Technician Intermediate	5
OEEM 150 L	Emergency Medical Technician Intermediate Lab	2
OEEM 151	Emergency Medical Technician Intermediate Field/Clinical	2
	Credits	12
Spring		
OEEM 201	Human Pathophysiology	3
OEEM 202	EMT-Paramedic Respiratory Emergencies	3
GEN Ed Course - On	e course from Areas I-VI <sup>1, 2</sup>	3-4
OEEM 207	Introduction to Pharmacology	3
	Credits	12-13
Third Year		
Fall		
OEEM 203	EMT-Paramedic Trauma Emergencies	3
OEEM 210	Cardiac Rhythm Interpretation	3
OEEM 216	EMT-Paramedic: Reproductive and Childhood Emergencies	3
	Credits	9
Spring		
Approved OEEM Elec	ctive	1-3

Approved OEEM Elect	ive	1-3
OEEM 230	EMT-Paramedic Clinical Experience I	3
OEEM 240	EMT-Paramedic Field Experience I	3
	Credits	8-12
Fourth Year		
Fall		
OEEM 212	EMT-Paramedic Cardiovascular Emergencies	3
OEEM 231	EMT-Paramedic Clinical Experience II	3
Approved OEEM Elect	ive	3
	Credits	9
Spring		
OEEM 213	EMT-Paramedic: Medical Emergencies I	3
OEEM 242	EMT-Paramedic Field Internship	3
General Education Ele	ective Course <sup>2</sup>	3-4
	Credits	9-10
Fifth Year		
Fall		
OEEM 214	EMT-Paramedic: Medical Environmental	3
	Emergencies II	
OEEM 243	EMT-Paramedic Preparation for Practice	2
	Credits	5
	Total Credits	87-94

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- Complete as needed according to program director.

# **Emergency Medical Technician Paramedic - Certificate**

All courses must be completed with a C or higher.

Prefix	Title	Credits
Supplemental Requirer	ments	
OEEM 150	Emergency Medical Technician Intermediate	5
OEEM 150 L	Emergency Medical Technician Intermediate Lab	2
OEEM 151	Emergency Medical Technician Intermediate Field/Clinical	2
Approved OEEM Electiv	/e	1-3
Approved OEEM Electiv	ve	1-3
Program Requirements	3	
OEEM 201	Human Pathophysiology	3
OEEM 202	EMT-Paramedic Respiratory Emergencies	3
OEEM 203	EMT-Paramedic Trauma Emergencies	3
OEEM 206	Introduction to Advanced Prehospital Care	3
OEEM 207	Introduction to Pharmacology	3
OEEM 210	Cardiac Rhythm Interpretation	3
OEEM 212	EMT-Paramedic Cardiovascular Emergencies	3
OEEM 213	EMT-Paramedic: Medical Emergencies I	3
OEEM 214	EMT–Paramedic: Medical Environmental Emergencies II	3
OEEM 216	EMT-Paramedic: Reproductive and Childhood Emergencies	3
OEEM 230	EMT-Paramedic Clinical Experience I	3

OEEM 231	EMT-Paramedic Clinical Experience II	3
OEEM 240	EMT-Paramedic Field Experience I	3
OEEM 242	EMT-Paramedic Field Internship	3
OEEM 243	EMT-Paramedic Preparation for Practice	2
Approved OEEM Ele	ective	3
Total Credits		58-62

Complete as needed according to program director.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall OEEM 150	Francisco Nadical Tasknician Intermediate	5
OEEM 150 L	Emergency Medical Technician Intermediate	2
OEEM 150 L	Emergency Medical Technician Intermediate Lab	Z
OEEM 151	Emergency Medical Technician Intermediate Field/Clinical <sup>1</sup>	2
	Credits	9
Spring		
OEEM 201	Human Pathophysiology	3
OEEM 202	EMT-Paramedic Respiratory Emergencies	3
OEEM 207	Introduction to Pharmacology	3
	Credits	9
Second Year		
Fall		
OEEM 203	EMT-Paramedic Trauma Emergencies	3
OEEM 210	Cardiac Rhythm Interpretation	3
OEEM 216	EMT-Paramedic: Reproductive and Childhood Emergencies	3
	Credits	9
Spring		
Approved OEEM Electi	ve	1-3
Approved OEEM Electi		1-3
OEEM 230	EMT-Paramedic Clinical Experience I	3
OEEM 240	EMT-Paramedic Field Experience I	3
	Credits	8-12
Third Year		
Fall		
OEEM 212	EMT-Paramedic Cardiovascular Emergencies	3
OEEM 231	EMT-Paramedic Clinical Experience II	3
OEEM 206	Introduction to Advanced Prehospital Care	3
	Credits	9
Spring		
OEEM 213	EMT-Paramedic: Medical Emergencies I	3
Approved OEEM Electi	ve	3
OEEM 242	EMT-Paramedic Field Internship	3
	Credits	9
Fourth Year		
Fall		
OEEM 214	EMT-Paramedic: Medical Environmental	3
	Emergencies II	

OEEM 243	EMT-Paramedic Preparation for Practice	2
	Credits	5
	Total Credits	58-62

Complete as needed according to program director.

### **Engineering**

The Associate of Science in Engineering degree prepares the graduate for an entry-level position in the engineering industry. Students may apply the associates degree coursework to a Bachelor of Science Degree in Engineering in one of several fields including Chemical Engineering, Civil Engineering, Electrical & Computer Engineering, Engineering Physics, Engineering Technology & Surveying Engineering, Industrial Engineering, or Mechanical & Aerospace Engineering offered at one of the New Mexico four-year institutions.

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into collegelevel math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements. TOTAL CREDITS REQUIRED FOR DEGREE: (60)

Engineering - Associate of Science (p. 157)

### ENGR 100G. Introduction to Engineering 3 Credits (2+3P)

An introduction to the various engineering disciplines, the engineering approach to problem solving, and the design process. Projects emphasize the importance of teamwork, written & oral communication skills, as well as ethical responsibilities. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 1220G or above.

### ENGR 100GH. Introduction to Engineering Honors 3 Credits (2+3P)

An introduction to the various engineering disciplines, the engineering approach to problem solving, and the design process. Projects emphasize the importance of teamwork, written & oral communication skills, as well as ethical responsibilities. May be repeated up to 3 credits. Crosslisted with: ENGR 100.

Prerequisite(s)/Corequisite(s): MATH 1220G or above.

### ENGR 110. Introduction to Engineering Design 3 Credits (2+3P)

Sketching and orthographic projection. Covers detail and assembly working drawings, dimensioning, tolerance specification, and design project

### ENGR 111. Mathematics for Engineering Applications 3 Credits (3)

An introduction to engineering mathematics and basic programming skills needed to perform elementary data manipulation and analysis. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): MATH 1250G. Prerequisite(s): MATH 1220G.

### ENGR 198. Special Topics in Engineering 1-3 Credits

Directed individual study of topics in engineering. Written reports covering work required. May be repeated for a maximum of 6 credits. Restricted to engineering majors. Graded S/U.

Prerequisite: consent of academic dean.

### ENGR 233. Engineering Mechanics I 3 Credits (3)

Engineering mechanics using vector methods. Force systems, resultants, equilibrium, distributed forces, area moments, and friction.

Prerequisite(s)/Corequisite(s): PHYS 1310G. Prerequisite(s):

MATH 1521G or MATH 1521H.

### ENGR 234. Engineering Mechanics II

3 Credits (3)

Kinetics of particles, kinematics and kinetics rigid bodies, systems of particles, energy and momentum principles, and kinetics of rigid bodies in three dimensions.

**Prerequisite(s)/Corequisite(s):** MATH 2530G. Prerequisite(s): M E 236, C E 233, or ENGR 233.

### **Engineering - Associate of Science**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61-65 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

All courses must be completed with a C or higher.

Title

Prefix	Title	Credits
General Education		
Area I: Communication	1	
English Composition -	Level 1	
ENGL 1110G	Composition I	4
English Composition -	Level 2	
Choose one from the	following:	3
ENGL 2210G	Professional & Technical Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
Oral Communication		
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
Area II: Mathematics		
MATH 1511G	Calculus and Analytic Geometry I <sup>1</sup>	4
Area III/IV: Laboratory	Sciences and Social/Behavioral Sciences	11
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
Area IV: Social/Be	havioral Sciences Course (3 credits) <sup>2</sup>	
Area V: Humanities <sup>2</sup>		3
Area VI: Creative and F	Fine Arts <sup>2</sup>	3
General Education Ele	ctive <sup>2</sup>	3-4
Core Requirements		
ENGR 100G	Introduction to Engineering	3
ENGR 111	Mathematics for Engineering Applications	3
E E 100	Introduction to Electrical and Computer Engineering	4
EE112	Embedded Systems	4
E E 230	Circuit Analysis and Introduction to Electronics	4
Major Requirements		
Engineering Degree Ele	ectives (9-12 credits)	9-12
Select any three from	the following:	
MATH 1521G	Calculus and Analytic Geometry II	

PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
C E 151	Introduction to Civil Engineering	
C E 233	Mechanics-Statics	
I E 151	Computational Methods in Industrial Engineering	
I E 217	Manufacturing Processes	
I E 217 L	Manufacturing Processes Laboratory	
M E 159	Graphical Communication and Design	
M E 210	Electronics and System Engineering	
E E 212	Introduction to Computer Organization	
Total Credits		61-65

- MATH 1511G Calculus and Analytic Geometry I is required for the degree but students may need to take any prerequisites needed to enter MATH 1511G first.
- See the <u>General Education</u> section of the catalog for a full list of courses
- If Either MATH 1521G or PHYS 1320G/PHYS 1320L are selected as an elective, the course will also count for the General Education Elective requirement.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course First Year	Title	Credits
Fall		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
ENGL 1110G	Composition I	4
ENGR 100G	Introduction to Engineering	3
E E 100	Introduction to Electrical and Computer Engineering	4
	Credits	15
Spring		
MATH 1511G	Calculus and Analytic Geometry I <sup>1</sup>	4
ENGR 111	Mathematics for Engineering Applications	3
E E 230	Circuit Analysis and Introduction to Electronics	4
Area IV: Social/Behavio	oral Sciences Course <sup>2</sup>	3
	Credits	14
Second Year		
Fall		
E E 112	Embedded Systems	4
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	4
Choose one from the fo	ollowing:	3
ENGL 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science	
ENGR Elective <sup>3</sup>		3-4
Area VI: Creative and F	ine Arts <sup>2</sup>	3
	Credits	17-18
Spring		
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	3

ENGR Elective <sup>3</sup>	3-4
ENGR Elective <sup>3</sup>	3-4
Area V: Humanities <sup>2,4</sup>	3
General Education Elective <sup>2, 4</sup>	3-4
Credits	15-18
Total Credits	61-65

- MATH 1511G Calculus and Analytic Geometry I is required for the degree but students may need to take any prerequisites needed to enter MATH 1511G first.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- Engineering Electives:
  - · MATH 1521G Calculus and Analytic Geometry II
  - PHYS 1320G Calculus -Based Physics II/PHYS 1320L Calculus -Based Physics II Lab
  - · C E 151 Introduction to Civil Engineering
  - C E 233 Mechanics-Statics
  - I E 151 Computational Methods in Industrial Engineering
  - I E 217 Manufacturing Processes
  - · IE 217 L Manufacturing Processes Laboratory
  - · M E 159 Graphical Communication and Design
  - M E 210 Electronics and System Engineering
  - E E 212 Introduction to Computer Organization
- If either MATH 1521G Calculus and Analytic Geometry II or PHYS 1320G Calculus -Based Physics II/PHYS 1320L Calculus -Based Physics II Labare selected as an elective, the course will also count for the General Education Elective requirement.

## **Geographical Information Systems - Certificate**

This certificate focuses on the systematic study of map-making and the application of mathematical, computer, and other techniques to the analysis of large amounts of geographic data and the science of mapping geographic information. Includes instruction in cartographic theory and map projections, computer-assisted cartography, geographic information systems, map design and layout, photogrammetry, air photointerpretation, remote sensing, spatial analysis, geodesy, cartographic editing, and applications to specific industrial, commercial, research, and governmental mapping problems.

Examples: Geographic Information Systems (GIS), Spatial Analysis, Geomatics, Remote Sensing

Prefix	Title	Credits
Technical Requirem	ents	
DRFT 109	Computer Drafting Fundamentals <sup>1</sup>	3
DRFT 153	Survey Drafting Applications	3
DRFT 204	Geographic Information Systems Technology	3
DRFT 254	Spatial Data Processing	3
DRFT 274	GIS Theory and Analysis	3
GEOG 1110G	Physical Geography (or Advisor Approved Elective (DRFT, GEOG, or SUR)) <sup>2</sup>	4
A final grade of C- o	r better is required in all DRFT courses.	
Total Credits		19

This course can be completed through an articulated high school course.

Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

Course First Year	Title	Credits
Fall		
DRFT 109	Computer Drafting Fundamentals	3
DRFT 204	Geographic Information Systems Technology	3
GEOG 1110G	Physical Geography	4
	Credits	10
Spring		
DRFT 153	Survey Drafting Applications	3
DRFT 254	Spatial Data Processing	3
DRFT 274	GIS Theory and Analysis	3
	Credits	9
	Total Credits	19

### **Health Information Technology**

**Health Information Technology** is the comprehensive management of health information across computerized systems and its secure exchange between health care consumers and providers. The curriculum emphasizes medical billing and coding, anatomy and physiology, medical billing, records management, and pharmacology.

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Health Information Technology - Certificate (p. 160)

**Gainful Employment Disclosure**: Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following <u>Gainful Employment Disclosure</u>

Health Information Technology - Associate of Applied Science (p. 159)

### HIT 110. Electronic Health Records 3 Credits (3)

This course will train students on skill requirements for becoming a safe and effective fire apparatus driver/operator. The focus will be on pump operation, construction, testing, and mathematical calculation required for effective pump operation and fire control. Responsibilities of the driver/operator will be taught and assessed consistent with applicable NFPA standards and the New Mexico Firefighters' Training Academy (NMFTA) guidelines. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the NMFTA. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s)/Corequisite(s): FIRE 128.

### HIT 120. Health Information Introduction to Pharmacology 3 Credits (3)

Introduction to the principles of pharmacology, including drug terminology; drug origins, forms, and actions; routes of administration; as well as the use of generic name drugs, trade name drugs and categories of drugs to treat multiple and specific body systems. May be repeated up to 3 credits. Crosslisted with: NURS 120. Restricted to Community Colleges campuses only.

### HIT 130. Health Information Technology Anatomy & Physiology 3 Credits (3)

An introductory course in the basics of human structure and function. Body systems are examined as to how they relate to proper code selection and as part of the functioning of the body as a whole. Restricted to Community Colleges campuses only.

### HIT 140. Health Information Introduction to Pathophysiology 3 Credits (3)

Introduction to the nature of disease and its effect on body systems. Disease processes affecting the human body via an integrated approach to specific disease entities will be presented including a review of normal functions of the appropriate body systems. Diseases will be studied in relation to their etiology, pathology, physical signs and symptoms, diagnostic procedures, complications, treatment modalities and prognosis.

### HIT 150. Introduction to Medical Terminology 3 Credits (3)

The study and understanding of medical terminology as it relates to diseases, their causes and effects, and the terminology used in various medical specialties. Emphasis will be placed on learning the basic elements of medical words, appropriate spelling and use of medical terms, and use of medical abbreviations. May be repeated up to 3 credits. Crosslisted with: NURS 150, AHS 120 and BOT 150. Restricted to Community Colleges campuses only.

### HIT 158. Advanced Medical Terminology 3 Credits (3)

Builds upon the concepts covered in HIT 150 or AHS 120 providing greater understanding of how to properly use and apply medical terminology used in the various health fields. Medical terminology associated with the body system's anatomy and physiology, pathology, diagnostic and therapeutic procedures, pharmacology, and abbreviations will be emphasized. Restricted to Community Colleges campuses only. **Prerequisite(s):** HIT 150 or AHS 120.

#### HIT 221. Internship I

#### 3 Credits (3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. C- or better is required for this course. Consent of Instructor required. Restricted to: BOT,HIT majors. Restricted to Community Colleges campuses

### HIT 228. Medical Insurance Billing

#### 3 Credits (3)

Comprehensive overview of the insurance specialist's roll and responsibilities. Concepts and applications that will assist the student in understanding the steps necessary for successfully completing the insurance claim filing and reimbursement processes for various insurance carriers, both private and government, will be emphasized. Restricted to Carlsbad campus only.

Prerequisite(s): HIT/NURS 150; BOT 208.

### HIT 240. Health Information Quality Management 3 Credits (3)

Introduction to basic concepts of quality improvement and performance improvement as they apply to health record systems and the health care industry. Quality assessment and improvement standards and requirements of licensing, accrediting fiscal and other regulatory agencies will be presented.

#### HIT 248. Medical Coding I

#### 3 Credits (2+2P)

Comprehensive overview of the fundamentals, coding conventions, and principles of selecting the most appropriate ICD-10-CM/PCS diagnostic and procedure codes. The most recent version of ICD-10-CM/PCS and an in depth study of current Official Coding Guidelines for coding and reporting will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 228.

#### HIT 255. Special Topics

#### 3 Credits (3)

Specific topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

#### HIT 258. Medical Coding II

#### 3 Credits (2+2P)

Continuation of Medical Coding I. Comprehensive overview of the coding and reporting guidelines, fundamentals, coding conventions, and principles of selecting the most appropriate CPT and HCPCS procedural codes for all medical specialties. The most recent version of CPT and a continued study of the ICD-10-CM/PCS coding conventions and principles will be emphasized. Designed as a medical coding capstone course. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 248.

Area V: Humanities

### HIT 268. Health Information Systems 3 Credits (3)

Overview of health data management, work planning, and organization principles; an introduction to health care information systems; and review of the fundamentals of information systems for managerial, clinical support, and information systems.

# **Health Information Technology - Associate of Applied Science**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61-64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

All courses must be completed with a C or higher.

Prefix	Title	Credits
General Education		
Choose one course from of 12-14 credits. 1, 2	four of the following six content areas for a total	12-14
Area I: Communicati	ions	
Area II: Mathematics	s	
Area III: Laboratory	Science	
Area IV: Social/Beha	vioral Sciences	

Total Credits	_	61-64
HIT 268	Health Information Systems	3
HIT 258	Medical Coding II	3
HIT 248	Medical Coding I	3
HIT 240	Health Information Quality Management	3
HIT 221	Internship I	3
HIT 140	Health Information Introduction to Pathophysiology	3
HIT 120	Health Information Introduction to Pharmacology	3
OATS/HIT 228	Medical Insurance Billing	3
OATS 208	Medical Office Procedures	3
AHS 202	Legal and Ethical Issues in Health Care	3
AHS 140	Essentials of Anatomy and Physiology	4
Technical Requirements	•	
Major Requirements		
MGMT 2110	Principles of Management	3
HIT 158	Advanced Medical Terminology	3
OATS 150	Medical Terminology	
NURS 150	Medical Terminology	
HIT/NURS 150	Introduction to Medical Terminology	o .
Choose one for the foll	,	3
BCIS 1110	Introduction to Information Systems	3
Core Requirements		0.7
General Education Elect		3-4
Area VI: Creative an	d Fine Arts	

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
GEN Ed Course - On	e course from Areas I-VI <sup>1, 2</sup>	3
Choose one from th	e following:	3
HIT 150	Introduction to Medical Terminology	
NURS 150	Medical Terminology	
OATS 150	Medical Terminology	
OATS 208	Medical Office Procedures	3
AHS 140	Essentials of Anatomy and Physiology	4
	Credits	13
Spring		
MGMT 2110	Principles of Management	3
HIT 158	Advanced Medical Terminology	3
AHS 202	Legal and Ethical Issues in Health Care	3
BCIS 1110	Introduction to Information Systems	3
HIT 228 or OATS 228	Medical Insurance Billing or Medical Insurance Billing	3
	Credits	15

Summ	

GEN Ed Course - One course from Areas I-V 1, 2		3
General Education Elective - Any 'G' Course <sup>2</sup>		3-4
	Credits	6-7
Second Year		
Fall		
HIT 140	Health Information Introduction to Pathophysiology	3
HIT 248	Medical Coding I	3
HIT 268	Health Information Systems	3
HIT 120	Health Information Introduction to Pharmacology	3
GEN Ed Course -	One course from Areas I-V <sup>1, 2</sup>	3-4
	Credits	15-16
Spring		
HIT 240	Health Information Quality Management	3
HIT 258	Medical Coding II	3
GEN Ed Course - One course from Areas I-V 1, 2		3-4
HIT 221	Internship I	3
	Credits	12-13
	Total Credits	61-64

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

# **Health Information Technology - Certificate**

All courses must be completed with a C or higher.

Prefix	Title	Credits
Core Curriculum Requ	uirements	
ENGL 1110G	Composition I	4
COMM 1115G	Introduction to Communication	3
MATH 1215	Intermediate Algebra	3
Related Requirement	s	
BCIS 1110	Introduction to Information Systems	3
HIT/NURS 150	Introduction to Medical Terminology	3
HIT 158	Advanced Medical Terminology	3
Program Requiremen	ts	
AHS 140	Essentials of Anatomy and Physiology	4
AHS 202	Legal and Ethical Issues in Health Care	3
OATS 208	Medical Office Procedures	3
OATS/HIT 228	Medical Insurance Billing	3
Total Credits		32

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
ENGL 1110G	Composition I	4

	Total Credits	32
	Credits	15
MATH 1215	Intermediate Algebra	3
HIT 228 or OATS 228	Medical Insurance Billing or Medical Insurance Billing	3
BCIS 1110	Introduction to Information Systems	3
HIT 158	Advanced Medical Terminology	3
AHS 202	Legal and Ethical Issues in Health Care	3
Spring		
	Credits	17
COMM 1115G	Introduction to Communication	3
AHS 140	Essentials of Anatomy and Physiology	4
OATS 208	Medical Office Procedures	3
HIT 150 or NURS 150	Introduction to Medical Terminology or Medical Terminology	3

### **Heritage Interpretation**

The **Heritage Interpretation** program at NMSU Carlsbad emphasizes New Mexico's rich history, natural setting, and unique cultural blend. Students will study a variety of subjects that will broaden their knowledge of the Southwest's heritage and improve their ability to communicate with a diverse public. Two program options are available –

- · the Certificate in Heritage Interpretation and
- the Associate of Arts Degree in Heritage Interpretation.

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements. TOTAL CREDITS REQUIRED FOR DEGREE: (60)

Heritage Interpretation - Certificate (p. 162)

**Gainful Employment Disclosure**: Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following <u>Gainful Employment</u> Disclosure

Heritage Interpretation - Associate of Arts (p. 161)

## **Heritage Interpretation - Associate of Arts**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 63-64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credi	ts
<b>General Education</b>			
Area I: Communicati	ons		
<b>English Composition</b>	- Level 1		
ENGL 1110G	Composition I		4
<b>English Composition</b>	- Level 2		
Choose one from th	e following:		3
Choose one from th	e following:		3

or COMM 111306 Public Speaking or COMM 1115G Introduction to Communication  Area II: Mathematics  MATH 1220G College Algebra <sup>1, 2</sup> Area III/IV: Laboratory Science and Social/Behavioral Sciences 10-11  ENVS 1110G Environmental Science I  POLS 1120G American National Government  GEOG 1130G Human Geography or GEOL 1110G Physical Geology  Area V: Humanities  HIST 1150G Western Civilization I (Major Requirement) 3  Area VI: Creative and Fine Arts <sup>3</sup> General Education Elective  LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1120G United States History I (Major Requirement) 3  HIST 2110 Survey of New Mexico History 3  HIST 21996 Special Topics <sup>4</sup> Special Topics <sup>4</sup> Special Topics <sup>4</sup> Choose one from the following: SOCI 2261 Issues in Death and Dying SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology or PSYC 2221 Applied Psychology	ENGL 2210G	Professional & Technical Communication	
or COMM 111306 Public Speaking or COMM 1115G Introduction to Communication  Area II: Mathematics  MATH 1220G College Algebra <sup>1, 2</sup> Area III/IV: Laboratory Science and Social/Behavioral Sciences 10-11  ENVS 1110G Environmental Science I  POLS 1120G American National Government  GEOG 1130G Human Geography or GEOL 1110G Physical Geology  Area V: Humanities  HIST 1150G Western Civilization I (Major Requirement) 3  Area VI: Creative and Fine Arts <sup>3</sup> General Education Elective  LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1120G United States History I (Major Requirement) 3  HIST 2110 Survey of New Mexico History 3  HIST 21996 Special Topics <sup>4</sup> Special Topics <sup>4</sup> Special Topics <sup>4</sup> Choose one from the following: SOCI 2261 Issues in Death and Dying SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology or PSYC 2221 Applied Psychology	ENGL 2221G	Writing in the Humanities and Social Science	
or COMM 1115G Introduction to Communication  Area II: Mathematics  MATH 1220G College Algebra <sup>1, 2</sup> 3  Area III/IV: Laboratory Science and Social/Behavioral Sciences 10-11  ENVS 1110G Environmental Science I  POLS 1120G American National Government  GEOG 1130G Human Geography or GEOL 1110G Physical Geology  Area V: Humanities  HIST 1150G Western Civilization I (Major Requirement) 3  Area VI: Creative and Fine Arts <sup>3</sup> 3  General Education Elective  LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1120G United States History I (Major Requirement) 3  HIST 2110 Survey of New Mexico History 3  HIST 21996 Special Topics <sup>4</sup> 3  Choose one from the following: SOCI 2261 Issues in Death and Dying SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology or PSYC 2221 Applied Psychology	Oral Communication		
Area II: Mathematics  MATH 1220G College Algebra <sup>1, 2</sup> Area III/IV: Laboratory Science and Social/Behavioral Sciences  ENVS 1110G Environmental Science I  POLS 1120G American National Government  GEOG 1130G Human Geography or GEOL 1110G Physical Geology  Area V: Humanities  HIST 1150G Western Civilization I (Major Requirement)  Area VI: Creative and Fine Arts <sup>3</sup> General Education Elective  LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1110G United States History II (Major Requirement) 3  HIST 1120G United States History II (Major Requirement) 3  HIST 21996 Special Topics <sup>4</sup> Special Topics <sup>4</sup> Choose one from the following:  SOCI 1110G Introduction to Sociology  SOCI 2261 Issues in Death and Dying  SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology  or PSYC 2221 Applied Psychology	COMM 1130G	Public Speaking	
MATH 1220G College Algebra <sup>1, 2</sup> Area III/IV: Laboratory Science and Social/Behavioral Sciences  ENVS 1110G Environmental Science I  POLS 1120G American National Government  GEOG 1130G Human Geography or GEOL 1110G Physical Geology  Area V: Humanities  HIST 1150G Western Civilization I (Major Requirement)  Area VI: Creative and Fine Arts <sup>3</sup> General Education Elective  LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology  HIST 1110G United States History I (Major Requirement)  HIST 1120G United States History II  HIST 1120G Western Civilization II  HIST 2996 Special Topics <sup>4</sup> Special Topics <sup>4</sup> Choose one from the following:  SOCI 1110G Introduction to Sociology  SOCI 2261 Issues in Death and Dying  SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology  or PSYC 2221 Applied Psychology	or COMM 1115G	Introduction to Communication	
Area III/IV: Laboratory Science and Social/Behavioral Sciences  ENVS 1110G Environmental Science I  POLS 1120G American National Government  GEOG 1130G Human Geography or GEOL 1110G Physical Geology  Area V: Humanities  HIST 1150G Western Civilization I (Major Requirement)  Area VI: Creative and Fine Arts 3  General Education Elective  LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology  HIST 1110G United States History I (Major Requirement)  HIST 1120G United States History I (Major Requirement)  HIST 2110 Survey of New Mexico History  HIST 2996 Special Topics 4  Choose one from the following:  SOCI 1110G Introduction to Sociology  SOCI 2261 Issues in Death and Dying  SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology  or PSYC 2221 Applied Psychology	Area II: Mathematics		
ENVS 1110G Environmental Science I POLS 1120G American National Government GEOG 1130G Human Geography or GEOL 1110G Physical Geology  Area V: Humanities HIST 1150G Western Civilization I (Major Requirement)  Area VI: Creative and Fine Arts 3 3 3  General Education Elective  LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1120G United States History II (Major Requirement) 4  HIST 2110 Survey of New Mexico History 3  HIST 2996 Special Topics 4 3  Choose one from the following: 3  SOCI 1110G Introduction to Sociology  SOCI 2261 Issues in Death and Dying  SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	MATH 1220G	College Algebra <sup>1, 2</sup>	3
POLS 1120G American National Government GEOG 1130G Human Geography or GEOL 1110G Physical Geology  Area V: Humanities HIST 1150G Western Civilization I (Major Requirement)  Area VI: Creative and Fine Arts 3  General Education Elective LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) HIST 1120G United States History II HIST 1160G Western Civilization II HIST 2996 Special Topics 4  Special Topics 4  Special Topics 4  Choose one from the following: SOCI 1110G Introduction to Sociology SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology or PSYC 2221 Applied Psychology	Area III/IV: Laboratory	Science and Social/Behavioral Sciences	10-11
GEOG 1130G Human Geography or GEOL 1110G Physical Geology  Area V: Humanities  HIST 1150G Western Civilization I (Major Requirement)  Area VI: Creative and Fine Arts 3  General Education Elective  LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1120G United States History II (Major Requirement) 3  HIST 2110 Survey of New Mexico History 3  HIST 2996 Special Topics 4  Special Topics 4  Choose one from the following: 3  SOCI 1110G Introduction to Sociology  SOCI 2261 Issues in Death and Dying  SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	ENVS 1110G	Environmental Science I	
or GEOL 1110G Physical Geology  Area V: Humanities  HIST 1150G Western Civilization I (Major Requirement)  33  General Education Elective  LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation 3  or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1120G United States History II 3  HIST 2110 Survey of New Mexico History 3  HIST 2996 Special Topics 4  Ghoose one from the following: 3  SOCI 1110G Introduction to Sociology SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Campining and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	POLS 1120G	American National Government	
Area V: Humanities  HIST 1150G Western Civilization I (Major Requirement)  Area VI: Creative and Fine Arts 3  General Education Elective  LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation 3  or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1120G United States History II 3  HIST 2110 Survey of New Mexico History 3  HIST 2996 Special Topics 4  Choose one from the following: 3  SOCI 21110G Introduction to Sociology SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	GEOG 1130G	Human Geography	
HIST 1150G Western Civilization I (Major Requirement)  Area VI: Creative and Fine Arts 3  General Education Elective  LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1120G United States History II 3  HIST 1160G Western Civilization II 3  HIST 2110 Survey of New Mexico History 3  HIST 2996 Special Topics 4  Choose one from the following: 3  SOCI 21110G Introduction to Sociology  SOCI 2261 Issues in Death and Dying  SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	or GEOL 1110G	Physical Geology	
Area VI: Creative and Fine Arts <sup>3</sup> General Education Elective  LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1120G United States History II 3  HIST 1160G Western Civilization II 3  HIST 2110 Survey of New Mexico History 3  HIST 2996 Special Topics <sup>4</sup> 3  Choose one from the following: 3  SOCI 21110G Introduction to Sociology SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	Area V: Humanities		
General Education Elective  LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology  HIST 1110G United States History I (Major Requirement)  HIST 1120G United States History II  HIST 1160G Western Civilization II  HIST 2110 Survey of New Mexico History  HIST 2996 Special Topics 4  HIST 2996 Special Topics 4  Choose one from the following:  SOCI 1110G Introduction to Sociology  SOCI 2261 Issues in Death and Dying  SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology  or PSYC 2221 Applied Psychology	HIST 1150G	Western Civilization I (Major Requirement)	3
LING 2110G Introduction to the Study of Language and Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology  HIST 1110G United States History I (Major Requirement)  HIST 1120G United States History II  HIST 1160G Western Civilization II  HIST 2110 Survey of New Mexico History  HIST 2996 Special Topics 4  HIST 2996 Special Topics 4  Choose one from the following:  SOCI 1110G Introduction to Sociology  SOCI 2261 Issues in Death and Dying  SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology  or PSYC 2221 Applied Psychology	Area VI: Creative and F	ine Arts <sup>3</sup>	3
Linguistics  Major Requirements  Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1120G United States History II 3  HIST 1160G Western Civilization II 3  HIST 2110 Survey of New Mexico History 3  HIST 2996 Special Topics 4 3  HIST 2996 Special Topics 4 3  Choose one from the following: 3  SOCI 1110G Introduction to Sociology SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	General Education Elec	tive	
Department of History Requirements  HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1120G United States History II 3  HIST 1160G Western Civilization II 3  HIST 2110 Survey of New Mexico History 3  HIST 2996 Special Topics 4 3  Choose one from the following: 3  SOCI 1110G Introduction to Sociology SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	LING 2110G	, , ,	3
HIST 1150G is required for this degree and will count towards both the General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1120G United States History II 3  HIST 1160G Western Civilization II 3  HIST 2110 Survey of New Mexico History 3  HIST 2996 Special Topics 4 3  Choose one from the following: 3  SOCI 1110G Introduction to Sociology SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	Major Requirements		
General Education and Major Requirements  ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1120G United States History II 3  HIST 1160G Western Civilization II 3  HIST 2110 Survey of New Mexico History 3  HIST 2996 Special Topics 4 3  HIST 2996 Special Topics 4 3  Choose one from the following: 3  SOCI 1110G Introduction to Sociology SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology 3	Department of History	Requirements	
ANTH 1136 Introduction to Historic Preservation or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3 HIST 1110G United States History I (Major Requirement) 3 HIST 1120G United States History II 3 HIST 1160G Western Civilization II 3 HIST 2110 Survey of New Mexico History 3 HIST 2996 Special Topics 4 3 HIST 2996 Special Topics 4 3 Choose one from the following: 3 SOCI 1110G Introduction to Sociology SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3 or PSYC 2221 Applied Psychology	HIST 1150G is require	d for this degree and will count towards both the	
or ANTH 2140G Indigenous Peoples of North America  ANTH 1115G Introduction to Anthropology 3  HIST 1110G United States History I (Major Requirement) 3  HIST 1120G United States History II 3  HIST 1160G Western Civilization II 3  HIST 2110 Survey of New Mexico History 3  HIST 2996 Special Topics 4 3  Choose one from the following: 3  SOCI 1110G Introduction to Sociology SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology 3	General Education and	d Major Requirements	
ANTH 1115G Introduction to Anthropology HIST 1110G United States History I (Major Requirement) HIST 1120G United States History II HIST 1160G Western Civilization II HIST 2110 Survey of New Mexico History 31 HIST 2996 Special Topics 4 HIST 2996 Special Topics 4 Choose one from the following: SOCI 1110G Introduction to Sociology SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists) PSYC 1110G Introduction to Psychology or PSYC 2221 Applied Psychology	ANTH 1136	Introduction to Historic Preservation	3
HIST 1110G United States History I (Major Requirement)  HIST 1120G United States History II  HIST 1160G Western Civilization II  HIST 2110 Survey of New Mexico History  Special Topics 4  HIST 2996 Special Topics 4  Ghoose one from the following:  SOCI 1110G Introduction to Sociology  SOCI 2261 Issues in Death and Dying  SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology  or PSYC 2221 Applied Psychology	or ANTH 2140G	Indigenous Peoples of North America	
HIST 1120G United States History II 3 HIST 1160G Western Civilization II 3 HIST 2110 Survey of New Mexico History 3 HIST 2996 Special Topics 4 3 HIST 2996 Special Topics 4 3 Choose one from the following: 3 SOCI 1110G Introduction to Sociology SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3 or PSYC 2221 Applied Psychology	ANTH 1115G	Introduction to Anthropology	3
HIST 1160G Western Civilization II 3 HIST 2110 Survey of New Mexico History 3 HIST 2996 Special Topics 4 3 HIST 2996 Special Topics 4 3 Choose one from the following: 3 SOCI 1110G Introduction to Sociology SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3 or PSYC 2221 Applied Psychology	HIST 1110G	United States History I (Major Requirement)	3
HIST 2110 Survey of New Mexico History 3 HIST 2996 Special Topics 4 3 HIST 2996 Special Topics 4 3 Choose one from the following: 3 SOCI 1110G Introduction to Sociology SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3 or PSYC 2221 Applied Psychology	HIST 1120G	United States History II	3
HIST 2996 Special Topics 4 3  HIST 2996 Special Topics 4 3  Choose one from the following: 3  SOCI 1110G Introduction to Sociology  SOCI 2261 Issues in Death and Dying  SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	HIST 1160G	Western Civilization II	3
HIST 2996 Special Topics 4  Choose one from the following: 3  SOCI 1110G Introduction to Sociology  SOCI 2261 Issues in Death and Dying  SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	HIST 2110	Survey of New Mexico History	3
Choose one from the following:  SOCI 1110G Introduction to Sociology  SOCI 2261 Issues in Death and Dying  SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	HIST 2996	Special Topics <sup>4</sup>	3
SOCI 1110G Introduction to Sociology  SOCI 2261 Issues in Death and Dying  SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	HIST 2996	Special Topics <sup>4</sup>	3
SOCI 2261 Issues in Death and Dying SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3 or PSYC 2221 Applied Psychology	Choose one from the	following:	3
SOCI 2310G Contemporary Social Problems  PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	SOCI 1110G	Introduction to Sociology	
PHED 2996 Special Topics (Camping and Survival for Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	SOCI 2261	Issues in Death and Dying	
Archaeologists and Preservationists)  PSYC 1110G Introduction to Psychology 3  or PSYC 2221 Applied Psychology	SOCI 2310G	Contemporary Social Problems	
or PSYC 2221 Applied Psychology	PHED 2996		1
	PSYC 1110G	Introduction to Psychology	3
	or PSYC 2221	Applied Psychology	
	Total Credits		63-64

- MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.
- MATH 1215 Intermediate Algebra is another allowable course, however it will not count towards the General Education Requirements.
- See the <u>General Education</u> section of the catalog for a full list of courses
- May be repeated for up to 12 hours.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and/ or course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall	W	
HIST 1150G	Western Civilization I	3
ANTH 1115G	Introduction to Anthropology	3
ENGL 1110G	Composition I	4
or GEOG 1110G	Human Geography or Physical Geography	3-4
	Credits	13-14
Spring	W . 0' '' '' '	•
HIST 1160G	Western Civilization II	3
ANTH 1136 or ANTH 2140G	Introduction to Historic Preservation or Indigenous Peoples of North America	3
Choose one from the	,	3
ENGL 2210G	Professional & Technical Communication	3
ENGL 2221G	Writing in the Humanities and Social Science	
MATH 1220G	College Algebra <sup>1, 2</sup>	3
POLS 1120G	American National Government	
PULS 1120G		3
•	Credits	15
Summer	On a sint Transic of the Assess this in the side of	2
HIST 2996	Special Topics (Internship in Heritage Interpretation) <sup>3</sup>	3
	Credits	3
Second Year		
Fall		
HIST 1110G	United States History I	3
HIST 2110	Survey of New Mexico History	3
COMM 1130G	Public Speaking	3
or COMM 1115G	or Introduction to Communication	
ENVS 1110G	Environmental Science I	4
PHED 2996	Special Topics (Camping and Survival for Archaeologists and Preservationists)	1
	Credits	14
Spring		
HIST 1120G	United States History II	3
LING 2110G	Introduction to the Study of Language and Linguistics	3
Choose one from the	following:	3
SOCI 1110G	Introduction to Sociology	
SOCI 2261	Issues in Death and Dying	
SOCI 2310G	Contemporary Social Problems	
PSYC 1110G	Introduction to Psychology	3
or PSYC 1110G	or Introduction to Psychology	
Area IV: Creative and I	Fine Arts Course <sup>4</sup>	3
	Credits	15
Summer		
HIST 2996	Special Topics (Internship in Heritage Interpretation) <sup>3</sup>	3
	Credits	3
	Total Credits	63-64
	. S.C. Siculto	00 04

MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.

See the <u>General Education</u> section of the catalog for a full list of courses

### **Heritage Interpretation - Certificate**

Prefix	Title	Credits
Core Curriculum Requ	irements	
ENGL 1110G	Composition I	4
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
Select one MATH "G"	course <sup>1</sup>	3
	" course with a lab from ASTR, BIOL, CHEM, GEOG 1110G if selected), GEOL, or PHYS <sup>1</sup>	4
Department of History	Requirements	
ANTH 1115G	Introduction to Anthropology	3
ANTH 1136	Introduction to Historic Preservation	3
HIST 1150G	Western Civilization I	3
or HIST 1160G	Western Civilization II	
HIST 1110G	United States History I	3
or HIST 1120G	United States History II	
HIST 2110	Survey of New Mexico History	3
Electives		
Select 4 credits from	ANTH, POLS, HIST, MATH or SPAN	4
Total Credits		33

See the <u>General Education</u> section of the catalog for a full list of courses.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
ANTH 1115G	Introduction to Anthropology	3
ENGL 1110G	Composition I	4
HIST 1150G or HIST 1160G	Western Civilization I or Western Civilization II	3
HIST 2110	Survey of New Mexico History	3
Elective <sup>1</sup>		4
	Credits	17
Spring		
ANTH 1136	Introduction to Historic Preservation	3
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
HIST 1110G or HIST 1120G	United States History I or United States History II	3
Select one MATH 'G' C	ourse <sup>2</sup>	3
	course wirh a lab from ASTR, BIOL, CHEM, GEOG 1110G is selected), GEOL. or PHYS <sup>2</sup>	4
	Credits	16
	Total Credits	33

Elective course(s) should be from either the ANTH, POLS, HIST, MATH or SPAN prefix

MATH 1215 Intermediate Algebra is another allowable course, however it will not count towards the General Education Requirements.

May be repeated for up to 12 hours.

See the <u>General Education</u> section of the catalog for a full list of courses.

### **Hospitality and Tourism**

The Associate of Applied Science in Hospitality and Tourism prepares the graduate for an entry-level position in tourism. There are two options available – Food and Beverage/Culinary Arts and Lodging and Tourism. Training is offered in supervision, communication, marketing, finance, and operations. This program is designed for those entering the field as well as individuals already employed in the industry who want to upgrade their skills.

The majority of credits earned in this degree may be applied towards a Bachelor's degree in Hospitality, Restaurant and Tourism Management at NMSU Las Cruces.

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Hospitality and Tourism (Food & Beverage) - Associate of Applied Science (p. 165)

Hospitality and Tourism (Lodging & Tourism) - Associate of Applied Science (p. 164)

#### **HOST 155. Special Topics**

#### 1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

### HOST 201. Introduction to Hospitality Industry 3 Credits (3)

Overview of hospitality industry; organization and operation of lodging, food and beverage, and travel and tourism segments; focus on career opportunities and future trends of hospitality industry. Restricted to: Community College campuses only.

### HOST 202. Front Office Operations 3 Credits (3)

Hotel/motel front office procedures detailing flow of business, beginning with reservations and extending to the night audit process. Restricted to: Community College campuses only.

### HOST 203. Hospitality Operations Cost Control 3 Credits (3)

Management of Food & Beverage facilities using cost control techniques. Functional training in menu analysis and development with all phases of product flow through a Food & Beverage organization explored. Restricted to: Community Colleges only.

### HOST 204. Promotion of Hospitality Services 3 Credits (3)

Organization of hotel marketing functions; developing a marketing plan to sell the varied services of the hotel/motel property. Restricted to: Community College campuses only.

### HOST 205. Housekeeping, Maintenance, and Security 3 Credits (3)

Function of housekeeping departments, including personnel, sanitation, maintenance, and materials. A survey of security procedures to include guest protection and internal security of hotel/motel assets. Restricted to: Community College campuses only.

### HOST 206. Travel and Tourism Operations 3 Credits (3)

Transportation, wholesale and retail operations, attractions, the traveler, tourism development, and operational characteristics of tourism business. Restricted to: Community College campuses only.

### HOST 207. Customer Service for the Hospitality Industry 3 Credits (3)

Concepts of service and the customer, integrating the need for service quality, and the continuing efforts to maximize returns for the operation. Classic service styles as well as more modern service techniques are covered. Students gain in-depth managerial knowledge, planning skills, and hands-on techniques for consistently delivering quality and service in a variety of operations. Restricted to: Community College campuses only.

### HOST 208. Hospitality Supervision 3 Credits (3)

Strategies for directing, leading, managing change and resolving conflict. Prepares students to meet expectations of management, guests, employees, and governmental agencies. Restricted to: Community College campuses only.

### HOST 209. Managerial Accounting for Hospitality 3 Credits (3)

Prepares students to make effective business decisions based on financial report information; forecasting, budgeting, cost analysis. Restricted to: Community College campuses only.

Prerequisite(s): BOT 120 or ACCT 2110.

### HOST 210. Catering and Banquet Operations 3 Credits (3)

Teaches the basics of catering and banquet operations, including computer coordination, planning, set up, service, and completion. Restricted to Community Colleges campuses only.

### HOST 214. Purchasing and Kitchen Management 3 Credits (3)

Technical purchasing concepts, product selection, and specifications. Safety and sanitation as they relate to food service establishments. Prepares student for work with HACCP programs. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** HOST 203.

### HOST 216. Event, Conference and Convention Operations 3 Credits (3)

The ability to successfully plan, organize, arrange, and execute special events is critical to the success of many hospitality organizations. This course gives the student a grounding in the skills necessary to achieve success in this area. A variety of events are discussed and the similarities and differences with conferences and conventions are explored. Students are taught to organize and plan events of varying type and durations. Sales, logistics, and organizing skills are emphasized. Restricted to: Community College campuses only.

### HOST 219. Safety, Security and Sanitation in Hospitality Operations 3 Credits (3)

It is the responsibility of the manager to provide appropriate security, sanitation, and safety precautions in hospitality operations. Preparation for internal and external disasters is an important task for the Hospitality Manager. This course uses the National Restaurant Association ServSafe¬ training material. Restricted to: Community College campuses only.

### HOST 220. Experiential Travel

#### 1-3 Credits (1-3)

Course provides an opportunity for students to plan, prepare for and experience travel to destinations they might not otherwise have visited. Students experience local culture and peoples. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HOST 201 or consent of instructor.

#### HOST 221. Internship I

#### 1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEHS,HOST majors.Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

#### **HOST 222. Cooperative Experience II**

#### 3 Credits (3)

Continuation of HOST 221. Restricted to majors. Graded: S/U. Restricted to: Community College campuses only. Restricted to HOST majors. **Prerequisite(s):** HOST 221.

### HOST 239. Introduction to Hotel Management 3 Credits (3)

This course covers basic management functions in hotels, resorts, Boutique Hotels, Bed & Breakfast establishments, and other lodging operations. All aspects of the operation are covered including guest management, operations, and sales and marketing. Restricted to: Branch campuses only.

#### **HOST 255. Special Topics**

#### 3 Credits (3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

#### **HOST 298. Independent Study**

#### 1-3 Credits (1-3)

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated for a maximum of 3 credits. Restricted to: Community College campuses only.

Prerequisite(s): Minimum 3.0 GPA and sophomore standing.

# **Hospitality and Tourism (Lodging & Tourism) - Associate of Applied Science**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education	om four of the following six content areas for a total	12-14
of 12-14 credits. <sup>1, 2</sup>	in rour of the following six content areas for a total	12 14
Area I: Communic	ations	
Area II: Mathemat	ics	
Area III: Laborator	y Science	
Area IV: Social/Be	havioral Science	
Area V: Humanitie	s	
Area VI: Creative a	and Fine Arts	
General Education Elec	ctive <sup>2</sup>	3-4
Core Requirements		
BLAW 2110	Business Law I	3
OECS 105	Introduction to Information Technology	3
or BCIS 1110	Introduction to Information Systems	
OECS 215	Spreadsheet Applications	3
Major Requirements		
Technical Requiremen	ts	
H0ST 201	Introduction to Hospitality Industry	3
HOST 203	Hospitality Operations Cost Control	3
HOST 207	Customer Service for the Hospitality Industry	3
HOST 208	Hospitality Supervision	3
HOST 209	Managerial Accounting for Hospitality	3
HOST 219	Safety, Security and Sanitation in Hospitality Operations	3
H0ST 221	Internship I	3
Concentration Courses	work	
Select 15 credits fron	n the following:	15
HOST 202	Front Office Operations	
HOST 204	Promotion of Hospitality Services	
HOST 205	Housekeeping, Maintenance, and Security	
HOST 206	Travel and Tourism Operations	
HOST 210	Catering and Banquet Operations	
H0ST 216	Event, Conference and Convention Operations	
11001 210		

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of this catalog for a full list of courses.

Additional classes may be needed based on placement test results and/or course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
HOST 201	Introduction to Hospitality Industry	3
OECS 105 or BCIS 1110	Introduction to Information Technology or Introduction to Information Systems	3
GEN Ed course - One o	ourse from Areas I-VI <sup>1, 2</sup>	3
Concentration Course	work (Elective) <sup>3</sup>	3
	Credits	12
Spring		
HOST 203	Hospitality Operations Cost Control	3
OECS 215	Spreadsheet Applications	3

GEN Ed course - Or	ne course from Areas I-VI <sup>1, 2</sup>	3
BLAW 2110	BLAW 2110 Business Law I	
Concentration Cou	ırsework (Elective) <sup>3</sup>	3
	Credits	15
Summer		
GEN Ed course - Or	ne course from Areas I-VI <sup>1, 2</sup>	3-4
GEN Ed Course - O	ne course from Areas I-VI <sup>1, 2</sup>	3-4
	Credits	6-8
Second Year		
Fall		
HOST 207	Customer Service for the Hospitality Industry	3
HOST 208	Hospitality Supervision	3
HOST 219	Safety, Security and Sanitation in Hospitality	3
	Operations	
Concentration Cou	rsework (Elective) <sup>3</sup>	3
	Credits	12
Spring		
HOST 209	Managerial Accounting for Hospitality	3
HOST 221	221 Internship I	
General Education	Elective - Any 'G' course <sup>2</sup>	3-4
Concentration Cou	ırsework (Elective) <sup>3</sup>	3
Concentration Cou	ırsework (Elective) <sup>3</sup>	3
	Credits	15-16
	Total Credits	60-63

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of this catalog for a full list of courses.
- See the <u>Requirements</u> (p. 164) tab for specific courses.

# Hospitality and Tourism (Food & Beverage) - Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
<b>General Education</b>		
Choose one course for of 12-14 credits. 1, 2	rom four of the following six content areas for a total	12-14
Area I: Communi	ications	
Area II: Mathema	atics	
Area III: Laborato	ory Science	
Area IV: Social/Behavioral Science		
Area V: Humanities		
Area VI: Creative	and Fine Arts	
General Education El	lective <sup>2</sup>	3-4
<b>Core Requirements</b>		
BLAW 2110	Business Law I	3
OECS 105	Introduction to Information Technology	3
or BCIS 1110	Introduction to Information Systems	
OECS 215	Spreadsheet Applications	3

Major Requirements	s	
Technical Requireme	ents	
HOST 201	Introduction to Hospitality Industry	3
HOST 203	Hospitality Operations Cost Control	3
HOST 207	Customer Service for the Hospitality Industry	3
HOST 208	Hospitality Supervision	3
HOST 209	Managerial Accounting for Hospitality	3
HOST 219	Safety, Security and Sanitation in Hospitality Operations	3
HOST 221	Internship I	3
Electives, to bring the	he total credits to 60	
Select 15 credits fro	om the following:	15
CHEF 211	Food Production Management I	
CHEF 212	Food Production Management II	
CHEF 213	Bakery Management I	
CHEF 214	Bakery Management II	
HOST 210	Catering and Banquet Operations	
Approved CHEF	Elective	
Total Credits		60-63

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of this catalog for a full list of courses.

Additional classes may be needed based on placement test results and/or course prerequisites. Visit with an advisor for help with creating a customized plan.

Course First Year Fall	Title	Credits
HOST 201	Introduction to Hospitality Industry	3
OECS 105 or BCIS 1110	Introduction to Information Technology or Introduction to Information Systems	3
GEN Ed course - One co	ourse from Areas I-VI <sup>1, 2</sup>	3
Concentration Coursev	vork (Elective) <sup>3</sup>	3
Spring	Credits	12
HOST 203	Hospitality Operations Cost Control	3
OECS 215	Spreadsheet Applications	3
GEN Ed course - One co	ourse from Areas I-VI <sup>1, 2</sup>	3
BLAW 2110	Business Law I	3
Concentration Coursev	vork (Elective) <sup>3</sup>	3
	Credits	15
Summer		
	ourse from Areas I-VI <sup>1, 2</sup>	3-4
GEN Ed Course - One c	ourse from Areas I-VI <sup>1, 2</sup>	3-4
	Credits	6-8
Second Year		
Fall		
HOST 207	Customer Service for the Hospitality Industry	3
HOST 208	Hospitality Supervision	3
HOST 219	Safety, Security and Sanitation in Hospitality Operations	3
Concentration Coursev	vork (Elective) <sup>3</sup>	3
	Credits	12

#### Spring

HOST 209	Managerial Accounting for Hospitality	3
HOST 221	Internship I	3
General Education	on Elective - Any 'G' course <sup>2</sup>	3-4
Concentration C	oursework (Elective) <sup>3</sup>	3
Concentration C	oursework (Elective) <sup>3</sup>	3
	Credits	15-16
	Total Credits	60-63

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of this catalog for a full list of courses.
- 3 See the Requirements (p. 165) tab for specific courses.

### **Industrial Maintenance Technology**

The Industrial Maintenance Technician program prepares students with the education and experience necessary to begin employment within the Potash mining industry. Students receive training on state-of-the-art equipment which simulates the actual work performed both above and below ground in the potash mines. Additional exposure to the industry is provided through field experiences. Specializations offered within the curriculum include electrical and mechanical options.

#### **Graduation Requirements**

Certificate in Industrial Maintenance Technician: WorkKeys® scores of level 3 in Reading for Information, level 4 in Locating Information, and level 3 in Applied Mathematics; cumulative GPA of 2.0 or higher. A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic program may have additional requirements.

AAS in Industrial Maintenance Technician: ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements. TOTAL CREDITS REQUIRED FOR ELECTRICAL DEGREE: (60) TOTAL CREDITS REQUIRED FOR MECHANICAL DEGREE: (60)

Industrial Maintenance Technology (Electrical) - Certificate (p. 167)

<u>Industrial Maintenance Technology (Mechanical) - Certificate</u> (p. 168)

**Gainful Employment Disclosure**: Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following <u>Gainful Employment Disclosure</u>

Industrial Maintenance Technician, Electrical - Associate of Applied Science (p. 168)

Industrial Maintenance Technician, Mechanical - Associate of Applied Science (p. 169)

### INMT 133. Process Technology and Systems 4 Credits (4)

Provides instruction in the use of common process equipment. Students will use appropriate terminology and identify process equipment components such as piping and tubing, valves, pumps, compressors, turbines, motors, engines, heat exchangers, heaters, furnaces, boilers, filters dryers and other miscellaneous vessels. Included are the basic functions, scientific principles and symbols. Students will identify components on typical Process Flow Diagrams and Process and Instrument Diagrams. Restricted to Carlsbad campus only.

### INMT 134. Maintenance Principles 4 Credits (4)

The course is an introduction to the maintenance of equipment utilizing mechanical, electrical and instrumentation concepts. Topics include: hand tools, bearing fundamentals, equipment lubrication, material handling, electrical safety, battery systems, diagrams, electrical production and distribution, transformers, breakers, switches, AC and DC motors, motor controllers and operations, and introduction to automation and instrumentation control. Restricted to Carlsbad campus only.

### INMT 165. Equipment Processes 4 Credits (4)

This course introduces power transmission equipment and machinery components, including belt/chain driven equipment, speed reducers, variable speed drives, couplings, clutches, and conveying equipment. Students will learn the operation, maintenance, and troubleshooting for these types of equipment. The course also includes Overhead Crane Certification and Safety. Restricted to Carlsbad campus only.

### INMT 205. Programmable Logic Controllers and Applications 4 Credits (4)

Students learn about programmable logic controllers; architecture; programming, interfacing, and applications. Hands-on experience on modern commercial PLC units is the main component. Restricted to Carlsbad campus only.

### Prerequisite(s): BCIS 1110. INMT 223. Electrical Repairs

#### 4 Credits (4)

This course outlines for students the types of problems that occur in electrical machinery and systems. The course covers trouble-shooting and diagnosis, preventative maintenance, and how to make necessary repairs. Restricted to Carlsbad campus only.

#### INMT 235. Mechanical Drives I 4 Credits (4)

This course teaches the fundamentals of mechanical transmission systems used in industrial, agricultural, and mobile applications. Students will learn industrial relevant skills including how to: operate, install and analyze performance, and design basic transmission systems using chains, feed-belts, spur gears, bearings, and couplings. Vibration analysis will be used to determine when to perform maintenance of power transmission components. The course also covers power transmission safety, and introduction to belt and chain drives (applications, installations, and tensioning), and introduction to gear drives, coupling, and bearing, basic troubleshooting, blueprint and print reading, learning the basics of electrical drives and PDM and PM. Restricted to Carlsbad campus only.

#### **INMT 236. Lubrication Process**

#### 3 Credits (3)

This course teaches the technical skills needed to operate, install, tune, maintain and troubleshoot automatic lubrication systems. Lubrication concepts, setup and tuning, pneumatic pumps, series-progressive valve systems and microprocessor based lubrication controllers will be covered. The course covers the principles of and importance of lubrication, oils and grease types and applications, lube management (storage, handling, and purity), and PDM and PM. Restricted to Carlsbad campus only.

#### INMT 237. Hydraulics I

#### 2 Credits (2)

This course teaches fundamentals of hydraulic systems used in industry mobile application. Students learn the basic theory of application of hydraulic and electricity as it applies to hydraulics. Covered in the course are basic systems, principles of flow, pressure, viscosity, filtration, and colling. Also covered are basic components such as motor, pumps, cylinders, piping and control and relief valves. Troubleshooting strategies are discussed, along with blueprint and print reading, and PDM and PM. Industry, relevant skills including how to operate, install, analyze performance, and design basic hydraulic systems, reviewing intermediate hydraulic components and system applications. Restricted to Carlsbad campus only.

#### INMT 261. Pump Operations I 4 Credits (4)

This course teaches how to select, operate, install, maintain and repair the many types of pumps used by industry. Students learn the theory and practical application of all types of processed pumps and pipe systems. It covers types, components, and systems operation. It also covers troubleshooting for flow loss and cavitation. Students learn how to select, operate, install, maintain and repair the many types of pumps used by industry. Other topics covered include: Net Positive Suction Head, pump flow/head measurement, pressure head conversion, pressure flow characteristics, cavitation, series/parallel pump operation, mechanical seal/stuffing box maintenance, multi stage operation and construction, positive displacement pumps, turbine, diaphragm, peristaltic, piston, gear, and magnetic pump systems. Restricted to Carlsbad campus only.

### INMT 262. Piping Systems 2 Credits (2)

This course teaches students how to install, maintain and troubleshoot fluid systems such as how to select, size, identify, install a variety of types of piping, fittings, and valves. Measurement techniques from basic to precision measurement, gauging, including the fundamentals of demonsioning and tolerancing will taught. Restricted to Carlsbad campus only.

### INMT 263. Mechanical Drives II 4 Credits (4)

This course teaches the bearings and gears used in heavy duty mechanical transmission systems. This course will emphasize linear access drives, clutches, and brakes. In addition, this course teaches how to set up, operate and apply laser shaft alignment to a variety of industrial applications. This course is a study of the basic concepts and procedures for the maintenance and operations of pumps, turbines, seals, bearings, and compressors. The course will provide the student with the knowledge and skills necessary to perform proper maintenance, repair, replacement and selection of pumps, turbines, seals, bearings and compressors. Also covered are advanced gearbox, coupling and bearings, precision alignment (shaft, flange, and sheave), as well as basic vibration analysis and thermography as troubleshooting and RCA aids. Restricted to Carlsbad campus only.

#### INMT 264. Rigging

#### 2 Credits (2)

This course teaches how to safely move loads of different shapes and sizes using a variety of different methods. Students will lift loads and demonstrate how to move it. Students will use hoists, slings, ropes and fittings to learn how to safely lift a wide variety of loads. Included are weight estimation, lifting rules, load ratings (sling, wire, ropes and hoists). Restricted to Carlsbad campus only.

#### INMT 265. Hydraulics II 2 Credits (2)

This course teaches advanced hydraulics systems. The student will learn operation of advanced hydraulic systems applications, equipment installation, performance analysis of motors and pumps, accumulators, control, relief and check valve, equipment maintenance, and system design. The course covers accumulators, sequence valves, pilot circuits and unloader valves. Students learn more troubleshooting, hydraulic drives and other applications. Restricted to Carlsbad campus only.

### INMT 267. Pump Operations II 2 Credits (2)

This course teaches the student the disassembly, inspection and reassembly of centrifugal and positive displacement pumps. This course allows the student to identify and replace worn or broken components of pumps, and learn predictive and preventive maintenance principles. Lockout of the pump will be performed in addition to measurements and alignment. Restricted to Carlsbad campus only.

# Industrial Maintenance Techology (Electrical) - Certificate

Prefix	Title	Credits		
Core Curriculum Re	Core Curriculum Requirements			
INMT 133	Process Technology and Systems	4		
INMT 134	Maintenance Principles	4		
OETS 100	Industrial/Construction Safety	2		
OETS 118	Mathematics for Technicians	3		
INMT 205	Programmable Logic Controllers and Applications	4		
MAT 130	Applied Industrial Electricity I	4		
OEET 120	Basic Motor Controls	5		
ENGL 1110G	Composition I	4		
Total Credits		30		

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
INMT 133	Process Technology and Systems	4
OETS 100	Industrial/Construction Safety	2
OETS 118	Mathematics for Technicians	3
MAT 130	Applied Industrial Electricity I	4
	Credits	13
Spring		
OEET 120	Basic Motor Controls	5
INMT 134	Maintenance Principles	4

ENGL 1110G	Composition I	4
INMT 205	Programmable Logic Controllers and Applications	4
	Credits	17
	Total Credits	30

# Industrial Maintenance Technology (Mechanical) - Certificate

Prefix	Title	Credits		
Core Curriculum Re	Core Curriculum Requirements			
INMT 133	Process Technology and Systems	4		
INMT 134	Maintenance Principles	4		
OETS 100	Industrial/Construction Safety	2		
OETS 118	Mathematics for Technicians	3		
INMT 235	Mechanical Drives I	4		
INMT 237	Hydraulics I	2		
INMT 263	Mechanical Drives II	4		
WELD 105	Introduction to Welding	3		
ENGL 1110G	Composition I	4		
Total Credits		30		

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
INMT 133	Process Technology and Systems	4
OETS 100	Industrial/Construction Safety	2
OETS 118	Mathematics for Technicians	3
INMT 235	Mechanical Drives I	4
INMT 237	Hydraulics I	2
	Credits	15
Spring		
INMT 134	Maintenance Principles	4
ENGL 1110G	Composition I	4
INMT 263	Mechanical Drives II	4
WELD 105	Introduction to Welding	3
	Credits	15
	Total Credits	30

# Industrial Maintenance Technician (Electrical) - Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Choose one course from of 12-14 credits <sup>1, 2</sup>	n four od the following six content areas for a total	12-1
	ourses from Areas I, II, IV and V; students will dditional courses to complete General Education	
Area I: Communica	tions	
ENGL 1110G	Composition I	
Area II: Mathematic	'	
MATH 1130G	Survey of Mathematics <sup>3</sup>	
Area IV: Social/Beh		
Choose one from th	ne following (3 credits):	
ANTH 1115G	Introduction to Anthropology	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
GEOG 1120G	World Regional Geography	
	Human Geography	
POLS 1120G	American National Government	
or POLS 1110G	Introduction to Political Science	
SOCI 1110G	Introduction to Sociology	
Area V: Humanities		
Choose one from th	ne following:	
HIST 1110G	United States History I	
or HIST 1120G	United States History II	
HIST 1150G	Western Civilization I	
or HIST 1160G	Western Civilization II	
General Education Elect	tive	
ENGL 2210G	Professional & Technical Communication	
Core Requirements		
INMT 133	Process Technology and Systems	
0ETS 100	Industrial/Construction Safety	
OETS 118	Mathematics for Technicians	
INMT 134	Maintenance Principles	
NMT 165	Equipment Processes	
OEET 120	Basic Motor Controls	
OEET 110	Basic Electricity and Electronics	
MAT 130	Applied Industrial Electricity I	
INMT 223	Electrical Repairs	
MAT 135	Applied Industrial Electricity II	
INMT 205	Programmable Logic Controllers and Applications	
OEET 295	Special Topics	
Total Credits		6

Title

Prefix

**General Education** 

Credits

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- MATH 1130G Survey of Mathematics is required for the degree but students may need to take any prerequisites needed to enter MATH 1130G first.

Credits

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and/ or course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
INMT 133	Process Technology and Systems	4
OETS 100	Industrial/Construction Safety	2
OETS 118	Mathematics for Technicians	3
ENGL 1110G	Composition I	4
Area IV: Social/Behavi	oral Sciences Course <sup>1</sup>	3
	Credits	16
Spring		
INMT 134	Maintenance Principles	4
INMT 165	Equipment Processes	4
ENGL 2210G	Professional & Technical Communication	3
OEET 120	Basic Motor Controls	5
	Credits	16
Second Year		
Fall		
OEET 110	Basic Electricity and Electronics	4
MAT 130	Applied Industrial Electricity I	4
INMT 223	Electrical Repairs	4
Area V: Humanities Co	ourse <sup>2</sup>	3
	Credits	15
Spring		
MAT 135	Applied Industrial Electricity II	4
MATH 1130G	Survey of Mathematics <sup>3</sup>	3
INMT 205	Programmable Logic Controllers and Applications	4
OEET 295	Special Topics	2
	Credits	13
	Total Credits	60

#### Area IV: Social/Behavioral Sciences Courses:

- ANTH 1115G Introduction to Anthropology
- ECON 1110G Survey of Economics, ECON 2110G Macroeconomic Principles, or ECON 2120G Microeconomics Principles
- GEOG 1120G World Regional Geography or GEOG 1130G Human Geography
- POLS 1110G Introduction to Political Science or POLS 1120G American National Government
- · SOCI 1110G Introduction to Sociology

#### Area V: Humanities Courses

- HIST 1110G United States History I or HIST 1120G United States History II
- HIST 1150G Western Civilization I or HIST 1160G Western Civilization II
- MATH 1130G Survey of Mathematics is required for the degree but students may need to take any prerequisites needed to enter MATH 1130G first.

# Industrial Maintenance Technician (Mechanical) - Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Title

Prefix

**General Education** 

of 12-14 credits <sup>1, 2</sup> This degree requires co not have to take any ad- requirements. Area I: Communicati ENGL 1110G	four of the following six content areas for a total urses from Areas I, II, IV and V; students will ditional courses to complete General Education	12-14
not have to take any add requirements. Area I: Communicati ENGL 1110G		
ENGL 1110G		
	ons	
A 11 A 4 11 11	Composition I	
Area II: Mathematics	3	
MATH 1130G	Survey of Mathematics <sup>3</sup>	
Area VI: Social/Beha	vioral Sciences	
Choose one from the	e following (3 credits):	
ANTH 1115G	Introduction to Anthropology	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
GEOG 1120G	World Regional Geography	
or GEOG 1130G	Human Geography	
POLS 1120G	American National Government	
or POLS 1110G	Introduction to Political Science	
SOCI 1110G	Introduction to Sociology	
Area V: Humanities		
HIST 1110G	United States History I	
or HIST 1120G	United States History II	
HIST 1150G	Western Civilization I	
or HIST 1160G	Western Civilization II	
Area VI: Creative and	I Fine Arts	
General Education Electiv	ve	
ENGL 2210G	Professional & Technical Communication	3
Major Requirements		
INMT 133	Process Technology and Systems	4
OETS 100	Industrial/Construction Safety	2
OETS 118	Mathematics for Technicians	3
INMT 134	Maintenance Principles	4
INMT 165	Equipment Processes	4
INMT 235	Mechanical Drives I	4
INMT 237	Hydraulics I	2
INMT 261	Pump Operations I	4
INMT 262	Piping Systems	2
	Mechanical Drives II	4
INMT 264	Rigging	2
INMT 265	Hydraulics II	2
	Pump Operations II	2
	Special Topics	2

WELD 105	Introduction to Welding	3
Total Credits		60

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the General Education section of the catalog for a full list of
- 3 MATH 1130G Survey of Mathematics is required for the degree but students may need to take any prerequisites needed to enter MATH 1130G first.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
INMT 133	Process Technology and Systems	4
OETS 100	Industrial/Construction Safety	2
OETS 118	Mathematics for Technicians	3
ENGL 1110G	Composition I	4
Area IV: Social/Beh	navioral Sciences Course <sup>1</sup>	3
	Credits	16
Spring		
INMT 134	Maintenance Principles	4
INMT 165	Equipment Processes	4
ENGL 2210G	Professional & Technical Communication	3
MATH 1130G	Survey of Mathematics <sup>2</sup>	3
	Credits	14
Second Year		
Fall		
INMT 235	Mechanical Drives I	4
INMT 237	Hydraulics I	2
INMT 261	Pump Operations I	4
INMT 262	Piping Systems	2
Area V: Humanities	s Course <sup>3</sup>	3
	Credits	15
Spring		
INMT 263	Mechanical Drives II	4
INMT 264	Rigging	2
INMT 265	Hydraulics II	2
INMT 267	Pump Operations II	2
MAT 265	Special Topics	2
WELD 105	Introduction to Welding	3
	Credits	15
	Total Credits	60

- Area IV: Social/Behavioral Sciences Courses:
  - ANTH 1115G Introduction to Anthropology
  - · ECON 1110G Survey of Economics, ECON 2110G Macroeconomic Principles, or ECON 2120G Microeconomics Principles
  - · GEOG 1120G World Regional Geography or GEOG 1130G Human Geography
  - POLS 1120G American National Government or POLS 1110G Introduction to Political Science
  - · SOCI 1110G Introduction to Sociology

- MATH 1130G Survey of Mathematics is required for the degree but students may need to take any prerequisites needed to enter MATH 1130G first.
- Area V: Humanities Courses
  - HIST 1110G United States History I or HIST 1120G United States History II
  - · HIST 1150G Western Civilization I or HIST 1160G Western Civilization II

### **Manufacturing Technology**

The Manufacturing Technology program prepares students for entrylevel technician positions in the construction, mining, and manufacturing industries.

The program contains two options sharing a common core curriculum. The Electronic Assembly option stresses computer, drafting, electrical, and mechanical skills, while the Manufacturing Processes option stresses application of those skills to computer-aided drafting (CAD), computer-aided manufacturing (CAM), and computer numerically controlled (CNC) machining systems. Training is conducted in a conventional machining laboratory, a state-of-the-art CAM and robotics laboratory, and modern CAD labs. Experienced manufacturing professionals provide the highest quality instruction in a "hands on" environment.

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into collegelevel math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Manufacturing Technology (Electronics Assembly) - Associate of Applied Science (p. 173)

Manufacturing Technology (Manufacturing Processes) - Associate of Applied Science (p. 174)

#### ET 104. Soldering Techniques

#### 1 Credit (3P)

Fundamentals of soldering, desoldering, and quality inspection of printed circuit boards.

#### E T 106. Drafting Concepts/Computer Drafting Fundamentals I 4 Credits (2+4P)

Basic drafting skills, terminology, and visualization. Introduction to principles and fundamentals of computer-aided drafting. Community Colleges only. Same as DRFT 112.

Prerequisite: OECS 125, OECS 207, or consent of instructor.

### ET 109. Computer Drafting Fundamentals

#### 3 Credits (3+2P)

Crosslisted with: DRFT 109, C E 109 and SUR 109

#### ET 110. Introduction to 3-D Modeling (Solid Works) 3 Credits (2+3P)

Introduction to SolidWorks, a 3-D modeling software. The foundation for designing mechanical parts and assemblies.

#### ET 120. Computation Software

#### 2-3 Credits (2-3)

The use of spreadsheet software in the field of engineering technology.

#### E T 125. Introduction to Renewable Energy

#### 3 Credits (3)

Renewable energy systems, including topics in thermal-solar photovoltaic, wind, geothermal systems, and other current topics. Theory, practical applications, safety considerations and the economics of alternative renewable energy systems compared to conventional systems.

#### ET 153. Introduction to Computer Networks

#### 3 Credits (3)

Introduction to basic computer network fundamentals including International Open Systems Interconnect (OSI), the seven-layer model, and various networking hardware devices. Community Colleges only.

#### E T 154. Construction Methods and Communications

#### 3 Credits (3)

Blueprint reading, specifications, and introduction to materials used in construction.

#### ET 155. Network Operating Systems I

#### 3 Credits (3+1P)

Introduction to a computer network operating system. May not be used as part of an ET degree program on main campus. Restricted to: Community Colleges only.

Prerequisite(s): ET 120 or ET 122.

#### E T 156. Introduction to Information Security

#### 2 Credits (2)

This course introduces information security terminology, historical evolution of digital security, types of PC and network system vulnerabilities and types of information loss. In addition, methods of information protection and integrity, intrusion detection, and recovery of data are introduced.

**Prerequisite(s)/Corequisite(s):** E T 120. Restricted to Community Colleges campuses only.

#### E T 160. Windows Fundamentals for IET

#### 3 Credits (3)

Fundamental review of the Windows operating system including installation and upgrades as well as managing applications, files, folders, devices and maintenance.

#### ET 182. Digital Logic

#### 3 Credits (3)

The use of truth tables, Boolean equations, and diagrams to define, simplify, and implement logic-valued functions.

#### ET 183. Applied DC Circuits

#### 3 Credits (2+2P)

Application of Ohm's law, Kirchhoff's laws, Thevenin's, and Norton's theorems to the analysis of DC passive circuits. Embedded Lab. **Prerequisite(s)/Corequisite(s):** MATH 1220G.

#### ET 183 L. Applied DC Circuits Lab

#### 1 Credit (2P)

DC applied circuits lab. **Corequisite(s):** E T 183.

#### ET 184. Applied AC Circuits

#### 3 Credits (2+2P)

Application of circuit laws and theorems to analysis of AC passive circuits. Resonant circuit, polyphase circuit and magnetic circuit topics are introduced. Embedded Lab.

Prerequisite(s)/Corequisite(s): MATH 1250G. Prerequisite(s): E T 183.

#### ET 184 L. Applied AC Circuits Lab

#### 1 Credit (2P)

AC applied circuits lab **Corequisite(s):** ET 184.

#### E T 190. Applied Circuits

#### 4 Credits (3+2P)

Application of Ohm's law, Kirchhoff's laws, and Thevenin's theorems to the analysis of AC and DC passive circuits. Electronic circuit topics are introduced. Embedded lab.

Prerequisite(s)/Corequisite(s): MATH 1250G.

#### ET 191. Applied Circuits Laboratory

#### 1 Credit (2P)

**Applied Circuits Lab** 

#### ET 200. Special Topics

#### 1-3 Credits

Directed study or project. May be repeated for a maximum of 6 credits. **Prerequisite:** consent of department head.

#### ET 203. Computational Foundations

#### 3 Credits (3)

Fundamental concepts of various proof techniques. These concepts will be applied to the use of computer algorithms, programming languages and other engineering and technology applications.

Prerequisite(s): MATH 1250G and ET 262.

#### ET 210. Intermediate 3-D Modeling (Solid Works)

#### 3 Credits (3)

Intermediate 3-D modeling. Applied modeling of techniques to prepare for SolidWorks certification (CSWA).

Prerequisite(s): ET 110.

#### ET 217. Manufacturing Processes

#### 3 Credits (3)

Introduction to manufactuing and processing, including: casting, forming, and machining. Emphasis on creating products with the appropriate techniques. Crosslisted with: I E 217.

**Prerequisite(s)/Corequisite(s):** ET 217L. Prerequisite(s): ET 110 and MATH 1220G.

#### E T 217 L. Manufacturing Processes Lab

#### 1 Credit (3P)

Hands-on laboratory in machine shop to apply topics from E T 217, including: casting, forming, and machining.

Prerequisite(s)/Corequisite(s): E T 217.

#### ET 220. Internship

#### 1-6 Credits

Internship requiring an approved number of hours of varied and progressive experience in the field of study. The scope and other requirements of the internship are stated in an individualized syllabus and through a memorandum of understanding between the faculty mentor and the industry partner. May be repeated up to 6 credits. Consent of Instructor required.

Prerequisite(s): E T 283.

#### ET 230. Introduction to Servo Systems

#### 1 Credit (2P)

Introduction to Servo Systems. Topics include uses of servos in the industry, servo types, lop gains and frequency response, software control systems, damping, feedback, encoders, synchros and resolvers. Restricted to Community Colleges campuses only.

Prerequisite(s): ET 246.

#### ET 240. Applied Statics

#### 3 Credits (3)

Fundamental topics of applied statics, including force system analysis, equilibrium, free body diagrams, methods of joints and sections, distributed loads, friction, centroids, area moments, and shear and moment diagrams.

Prerequisite(s)/Corequisite(s): MATH 1430G or MATH 1511G.

Prerequisite(s): PHYS 1230G or PHYS 1310G.

#### ET 241. Applied Dynamics

#### 3 Credits (3)

The foundation for understanding particles and bodies in motion and the forces involved, including: projectile motion, Newton's Laws of Motion, conservation of energy, and impusle and momentum.

Prerequisite(s)/Corequisite(s): (MATH 1140 or MATH 1521G or MATH 1521H). Prerequisite(s): E T 240.

#### E T 245. Computer Hardware Fundamentals

#### 3 Credits (2+2P)

Computer hardware fundamentals including architecture, interfacing, peripherals, troubleshooting, system upgrades, and maintenance. Restricted to Las Cruces campus only.

#### ET 246. Electronic Devices I

#### 4 Credits (3+3P)

Solid-state devices including diodes, bipolar-transistors, and field effect transistors. Use of these devices in rectifier circuits, small signal and power amplifiers.

Prerequisite(s): ET 190 or ET 184.

#### E T 253. Networking Operating Systems II

#### 3 Credits (3+1P)

Introduction to a computer network operating system. May not be used as part of an ET degree program on main campus. Restricted to Community Colleges campuses only.

Prerequisite(s): ET 155.

#### E T 254. Concrete Technology

#### 3 Credits (2+2P)

Fundamentals of aggregates, Portland cement, and asphalt used in design and construction.

#### E T 255. Linux System Administration

#### 3 Credits (3)

A system administration view of the Linux operating system covering various distributions with a focus on managing the operating system and enterprise applications that run on Linux.

#### E T 256. Networking Operating Systems III

#### 3 Credits (3+1P)

Introduction to a computer network operating system. May not be used as part of an ET degree program on main campus. Restricted to Community Colleges campuses only.

Prerequisite(s): ET 253.

#### E T 262. Software Technology I

#### 3 Credits (2+2P)

An introduction to computer programming concepts as applied to engineering technology. Includes basic logic design, algorithm development, debugging and documentation. History and use of computers and their impact on society.

Prerequisite(s)/Corequisite(s): ET 182 or MATH 1250G.

#### ET 272. Electronic Devices II

#### 4 Credits (3+3P)

Operational amplifiers, positive and negative feedback, computer aided circuit analysis. In addition circuits include integrator, differentiators and phase shift networks.

Prerequisite(s)/Corequisite(s): MATH 1430G or MATH 1511G.

Prerequisite(s): ET 246.

### E T 273. Fundamentals of Networking Communications I 4 Credits (2+4P)

Introduction to networking basics, including computer hardware and software, electricity, networking terminology, protocols, LANs, WANs, OSI model, IP addressing, and design and documentation of basic network and structure cabling. Community Colleges only. May be repeated up to 4 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ET 153.

#### **ET 276. Electronic Communications**

#### 3 Credits (2+2P)

Antennas, transmission devices, A-M and F-M transmission and detection, pulse systems, microwave systems.

Prerequisite(s): ET 246.

#### ET 277. Computer Networking I for IET

#### 3 Credits (2+2P)

Computer network design and applications for LAN, TCP/IP networks, routing and switching technologies, VLANs, and the OSI layers from physical to transport.

Prerequisite(s): ET 182.

#### E T 280. Multimedia Tools and Support

#### 3 Credits (3)

Introduction to video, audio and other digital presentation methods. Addresses the latest multimedia technology advances and how they apply to the information and communication technology fields. Sample tools like ffmpeg, and Audacity are covered.

#### E T 282. Digital Electronics

#### 4 Credits (3+3P)

Applications of digital integrated circuits, multiplexers, counters, arithmetic circuits, and microprocessors.

**Prerequisite(s)/Corequisite(s):** (E T 190 or E T 184). Prerequisite(s): E T 182.

#### ET 283. Hardware PC Maintenance

#### 3 Credits (3+1P)

Installing, configuring, troubleshooting, and maintaining personal computer hardware components.

Prerequisite(s): ET 120 or ET 122.

#### ET 284. Software PC Maintenance

#### 3 Credits (3+1P)

Installing, configuring, troubleshooting, and maintaining personal computer operating systems.

Prerequisite(s): ET 120 or ET 122.

#### E T 285. Advanced Information Security

#### 3 Credits (3)

The course covers detailed analysis of network security, including security operations and policy adherence; internal and external vulnerabilities; methods of identifying, controlling and managing system access, and the protection of system information.

Prerequisite(s)/Corequisite(s): ET 283. Prerequisite(s): ET 156.

### E T 286. Information Security Certification Preparation 4 Credits (4)

The course covers the examination objectives and detailed preparation for a certification in information security.

Prerequisite(s): E T 285.

### E T 290. Networking Wireless Communication 3 Credits (3+1P)

This course provides an introduction to wireless networking and communications. Some of the topics covered are protocols, transmission methods, and IEEE 802.11 standards. Wireless LAN (WLAN) fundamentals, devices, and security, cellular telephony, broadband, and satellite communications.

Prerequisite: ET 273.

#### E T 291. PC Forensics and Investigation

#### 3 Credits (3)

Introduction to computer forensics and investigative fundamentals. Topics include understanding computer forensic and investigation law and requirements, processing crime and incident scenes, and the extraction, preservation, analysis and presentation of computer-related evidence.

Prerequisite(s): ET 120 or ET 122.

### Manufacturing Technology (Electronics Assembly) - Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60-63 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Choose one course total of 12-14 credit	from four of the following six content areas for a s <sup>1, 2</sup>	12-14
Area I: Communi	cations	
Area II: Mathema	ntics	
Area III: Science		
Area IV: Social/B	ehavioral Sciences	
Area V: Humaniti	es	
Area VI: Creative	and Fine Arts	
General Education El	ective <sup>2</sup>	3-4
Major Requirements	3	
Technical Requireme	nts	
BUSA 1110	Intro to Business	3
or ACCT 2120	Principles of Accounting II	
ET106	Drafting Concepts/Computer Drafting Fundamentals I	4
ET 120	Computation Software	2
ET 183	Applied DC Circuits	3
ET 183 L	Applied DC Circuits Lab	1
ET 184	Applied AC Circuits	3
ET 184 L	Applied AC Circuits Lab	1
Approved ET Electiv	/e	4
Program Concentrati	on Coursework	
ET 182	Digital Logic	3
ET 200	Special Topics	3

ET 246	Electronic Devices I	4
ET 272	Electronic Devices II	4
ET 282	Digital Electronics	4
Approved ET Elective		6
Total Credits		60-63

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course First Year Fall	Title	Credits
ET106	Drafting Concepts/Computer Drafting Fundamentals I	4
ET 120	Computation Software	2
ET 183 & 183 L	Applied DC Circuits and Applied DC Circuits Lab	4
Gen Ed Course - One	course from Areas I-VI <sup>1, 2</sup>	3
	Credits	13
Spring		
Approved ET Elective	2	4
ET 184 & 184 L	Applied AC Circuits and Applied AC Circuits Lab	4
GEN Ed Course - One	course from Areas I-VI 1, 2	3
Approved ET Elective	2	3
	Credits	14
Summer		
General Education El	ective - Any 'G' course <sup>2</sup>	3-4
	Credits	3-4
Second Year		
Fall		
ET 246	Electronic Devices I	4
GEN Ed Course - One	course from Areas I-VI 1, 2	3-4
ET 200	Special Topics	3
ET 182	Digital Logic	3
	Credits	13-14
Spring		
Approved ET Elective		3
ET 272	Electronic Devices II	4
E T 282	Digital Electronics	4
BUSA 1110 or ACCT 2120	Intro to Business or Principles of Accounting II	3
GEN Ed course - One course from Areas I-VI 1, 2		3-4
	Credits	17-18
_	Total Credits	60-63

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

### Manufacturing Technology (Manufacturing Processes) -Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61-64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

General Education	
Choose one course from four of the following six content areas for a total of 12-14 credits $^{1,2}$	12-14
Area I: Communications	
Area II: Mathematics	
Area III: Science	
Area IV: Social/Behavioral Sciences	
Area V: Humanities	
Area VI: Creative and Fine Arts	
General Education Elective <sup>2</sup>	3-4
Major Requirements	
Technical Requirements	
BUSA 1110 Intro to Business	3
or ACCT 2120 Principles of Accounting II	
ET 106 Drafting Concepts/Computer Drafting Fundamentals I	4
ET 120 Computation Software	2
E T 183 Applied DC Circuits	3
E T 183 L Applied DC Circuits Lab	1
E T 184 Applied AC Circuits	3
E T 184 L Applied AC Circuits Lab	1
Approved E T Elective	4
Program Concentration Coursework	
ET 217 Manufacturing Processes	3
ET 217 L Manufacturing Processes Lab	1
ET 200 Special Topics	3
Approved E T Elective	15
Approved Elective	3
Total Credits	61-64

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
ET106	Drafting Concepts/Computer Drafting Fundamentals I	4
ET 120	Computation Software	2

ET 183	Applied DC Circuits	4
& 183 L	and Applied DC Circuits Lab	4
	ourse from Areas I-VI 1, 2	3
02.1.24.004.00	Credits	13
Spring		
Approved ET Elective		4
ET 184	Applied AC Circuits	4
& 184 L	and Applied AC Circuits Lab	
GEN Ed course - One o	ourse from Areas I-IV <sup>1, 2</sup>	3-4
General Education Ele		3-4
	Credits	14-16
Summer		
GEN Ed course - One o	ourse from Areas I-VI <sup>1, 2</sup>	3
	Credits	3
Second Year		
Fall		
Approved ET Elective		3
Approved ET Elective		2
ET 200	Special Topics	3
ET 217 & 217 L	Manufacturing Processes and Manufacturing Processes Lab	4
Approved Elective		3
	Credits	15
Spring		
Approved ET Elective		2
Approved E T Elective		4
Approved ET Elective		4
BUSA 1110 or ACCT 2120	Intro to Business or Principles of Accounting II	3
GEN Ed course - One o	ourse from Areas I-VI <sup>1, 2</sup>	3-4
	Credits	16-17
	Total Credits	61-64

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

# Natural Gas Compression Technology - Certificate

The Natural Gas Compression Certificate is a program that provides the technical basics and knowledge of gas compression procedures, skills, maintenance, and the use of equipment to prepare for entry-level employment. It covers the safety procedures in the workplace, troubleshooting, repairing and operating the natural gas engines and related materials.

Prefix	Title	Credits
OETS 100	Industrial/Construction Safety	2
OETS 118	Mathematics for Technicians	3
INMT 205	Programmable Logic Controllers and Applications	4
NGEC 175	Natural Gas Compression Technology I	4
OEET 110	Basic Electricity and Electronics	4
INMT 165	Equipment Processes	4
NGEC 133	Natural Gas Engine Repair Technology	5

ENGL 1110G	Composition I	4
Total Credits		30
0	Title	Credits
Course	Title	Credits
First Year		
Fall		
OETS 100	Industrial/Construction Safety	2
OETS 118	Mathematics for Technicians	3
INMT 205	Programmable Logic Controllers and Applications	4
NGEC 175	Natural Gas Compression Technology I	4
	Credits	13
Second Year		
Spring		
OEET 110	Basic Electricity and Electronics	4
INMT 165	Equipment Processes	4
ENGL 1110G	Composition I	4
NGEC 133	Natural Gas Engine Repair Technology	5
	Credits	17
	Total Credits	30

### **Nursing**

The nursing curriculum of NMSU Carlsbad prepares students for beginning nursing practice in a variety of health care settings. The program is approved by the State Board of Nursing, and the Applied Associate Degree in Nursing is accredited by the Accreditation Commission for Education in Nursing (ACEN). Questions regarding accreditation should be directed to ACEN to

Accreditation Commission for Education in Nursing (ACEN) 3343 Peachtree Road NE, Suite 850 Atlanta, GA 30326 (404) 975-5000

Fax (404) 975-5020

email: info@acenursing.org

www.acenursing.org

Upon completion of the **Certificate for Practical Nursing**, graduates are eligible to write the National Council Licensure Exam (NCLEX-PN) which leads to licensure as a Practical Nurse. Upon completion of the **Applied Associate Degree in Nursing**, graduates are eligible to write the National Council Licensure Exam (NCELX-RN) that leads to licensure as a Registered Nurse.

Please note that certain felonious convictions may prohibit graduates from writing the NCLEX-RN in New Mexico. Students considering application to the nursing program who have any prior felony convictions should contact the appropriate Board of Nursing through which they intend to seek licensure prior to making application to this program. Graduates licensed as registered nurses in New Mexico do not meet licensure requirements in North Dakota.

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into collegelevel math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

### **Program Entrance Requirements**

- BIOL 2210 Human Anatomy and Physiology I for the Health Sciences
- CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors).
- NA 101 Nursing Assistant Theory and Lab
- Completion of developmental studies English, math and reading as indicated by the student's placement test results if needed
- Cumulative GPA of 2.75 or higher in courses applicable to the nursing curriculum
- HESI A2 composite score of 75% and 60% in each subject area:
   Math, Reading Comprehension, Vocabulary and General Knowledge,
   Grammar, and Anatomy & Physiology
- Submission of a program application packet by May 15. Packets are available in the Nursing Administration Office in the Allied Health Building and online at <u>carlsbad.nmsu.edu</u>.
- Science courses repeated more than twice will not be considered for admission requirements.

Courses from other nursing programs are evaluated by the Nursing Program Director; call (575) 234-9300 to inquire. Evaluation of non-nursing credits are processed by the registrar's office at NMSU Las Cruces.

#### **Curriculum Notes**

- All courses that are part of the nursing curriculum must be completed with a C or higher.
- Students must be formally accepted into the nursing program to enroll in courses listed under "Nursing Program Requirements."
- CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) may not be used to fulfill elective credit. Note that CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) is required for the BSN degree at NMSU Las Cruces.
- NURS 210 Pharmacological Requisites of the Childbearing Family is not required for the LPN option. However, if this course is not taken and the student decides not to exit at the LPN level and wants to continue in the associate degree, the student must take NURS 210 Pharmacological Requisites of the Childbearing Family (offered only in the spring) before progressing to the second year of nursing.
- · Some out of state travel is required for certain clinical experiences.

### **Essential Eligibility Requirements**

The following essential requirements and examples of necessary activities (not all inclusive) should be used to assist each applicant in determining whether accommodations or modifications are necessary.

Essential Function	<b>Example of Necessary Activities</b>
Critical thinking abilities sufficient for clinical judgment.	Identify cause/effect relationships in clinical situation; develop nursing care plans.
Interpersonal abilities sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	Establish rapport with patients/ families and colleagues.

Communication abilities sufficient for interactions with others in verbal and written form.	Explain treatment procedures, initiate health teaching, document and interpret nursing actions and patient/client responses.
Abilities sufficient to move from room to room and to maneuver in small places.	Move around in patients' rooms, work spaces, and treatment areas, and administer cardio-pulmonary procedures.
Abilities sufficient to provide safe and effective nursing care.	Calibrate and use equipment; position patients/clients.
Abilities sufficient to monitor and assess health needs.	Hear monitor alarms, emergency signals, auscultatory sounds and cries for help.
Abilities sufficient for observation and assessment necessary in nursing care.	Observe patient/client responses.
Abilities sufficient for physical assessment.	Perform palpation, functions of physical examination and/or those related to therapeutic intervention, e.g. insertion of a catheter.
Ability to operate under stressful situations.	Perform within a crisis situation providing care to meet physical, emotional, or psychosocial needs of

ADA Guidelines apply to all qualified disabled persons. A qualified disabled person is a person with a disability who, with or without reasonable modification to rules, policies, or practices, and with the removal of architectural, communication, or transportation barriers, or the provision of auxiliary aids and services, meets the essential eligibility requirements for the receipt of services, or the participation in the programs or activities provided by a public entity and who can perform the "essential functions" of the position. Any student who, because of a disabling condition, may require some special arrangements in order to meet course requirements should contact the appropriate program chair as soon as possible to make necessary accommodations. Students should be prepared to present a disability verification form from their physician.

the patient/client.

#### Practical Nursing - Certificate (p. 179)

**Gainful Employment Disclosure**: Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following <u>Gainful Employment Disclosure</u>

Nursing - Associate Degree (p. 180)

### NURS 110. Independent Study 1 Credit (1)

This Freshman seminar provides an introduction to the university and its resources, an orientation to the pre-nursing curriculum, and overview of concepts for professional nursing practice. Emphasis is placed on exploring the nurse's role as an integral member of the healthcare team across multiple contexts and settings, and developing a professional identity. Consent of Instructor required.

### NURS 120. Introduction to Pharmacology 3 Credits (3)

General principles of pharmacology including methods of administration, effect on the body, interactions with other drugs, and classification of drugs. Focus on the health care provider's role in safe pharmacologic intervention. May be repeated up to 3 credits. Crosslisted with: HIT 120. Restricted to Community Colleges campuses only.

### NURS 130. Foundations of Pharmacology 3 Credits (3)

This course provides the nursing student with an introduction to the foundations of pharmacology including: science of drug action, principles of medication administration, accurate calculation of drug doses, medication therapy across the lifespan, application of medications to treat health alterations, normal and adverse responses by the client to medication therapy, medication safety, medication regulation, national patient safety goals, and appropriate nursing interventions to achieve the desired goals of medication therapy. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: Community Colleges only.

Corequisite(s): NURS 147 & NURS 149. Restricted to: NUR majors.

### NURS 134. Foundation of Nursing Skills and Assessment 3 Credits (1+6P)

This course provides nursing students with introductory nursing knowledge related to performance of nursing skills and assessment including: techniques of fundamental nursing care, basic and intermediate nursing skills, and foundational physical assessment techniques associated with care across the lifespan. Open to students who have been accepted into the nursing program. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 136 & NURS 137 or permission of the Program Director.

### NURS 136. Foundations of Nursing Practice 6 Credits (4+6P)

This course will introduce the nursing student to foundational theoretical concepts of professional nursing practice, the nursing process, and foundational nursing skills. It includes developmental concepts related to clients across the lifespan. Clinical experiences in the simulation lab, long-term care, the community, and rehabilitation settings will provide the student with the opportunity to apply learned skills to provide total care to meet needs of one adult client and to develop care planning skills related to actual problems. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only. Corequisite(s): NURS 134, NURS 137.

### NURS 137. Care of Geriatric Patient 3 Credits (3)

This course will introduce the nursing student to foundational concepts of age-appropriate/specific care of the older adult who represents the largest population of individuals placing demands on the healthcare system. It includes basic and complex concepts and issues related to care of the older client across the care continuum, provision of cost-effective care in a resource sparse environment. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the nursing program to enroll in this course. Restricted to: NURS majors. Restricted to Community Colleges campuses only.

Corequisite(s): NURS 134 & NURS 136.

### NURS 140. Pathophysiology for Allied Health Professionals 3 Credits (3)

Introduction to the nature of disease and its effect on body systems. Deals with the disease processes affecting the human body via an integrated approach to specific disease entities. Includes a review of normal functions of the appropriate body systems. Diseases are studied in relationship to their etiology, pathology, physical signs and symptoms, diagnostic procedures, complication, treatment modalities, and prognosis. Restricted to Allied Health and Health Information Technology majors. Restricted to:Community Colleges only.

### NURS 146. Common Health Deviations 6 Credits (4+6P)

Common health deviations and the manner by which they alter various body functions are explored. The role of the licensed practical nurse in assisting clients with common health deviations is presented. Ethical and legal implications and the role of the practical nurse are also considered. The licensed practical nursing student will utilize the application of knowledge to client care situation both in the subacute and acute care settings. The nursing process is presented as guide for coordinating client care. Grade of C or better. May be repeated up to 6 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only. Prerequisite(s): NURS 153, NURS 156, NURS 154, NURS 157, and NURS 210 or consent of program director.

#### NURS 147. Adult Health I 6 Credits (4+6P)

This course focuses on application of the nursing process and theoretical concepts of care for adults with commonly occurring health problems. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to continue development of: prioritization skills, proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, care planning skills related to patient actual, psychosocial, and potential problems in the delivery of total nursing care to meet needs of one adult client. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to Community Colleges campuses only.

Corequisite(s): NURS 130, NURS 147 lab, & NURS 149.

### NURS 149. Mental Health Nursing 3 Credits (2+3P)

This course will allow the nursing student to develop skills necessary to provide nursing care for clients with mental health problems in various health care settings including: common mental health disorders, psychosocial dysfunction, psychosocial safety/substance abuse issues, violence, suicide, restraints, developmental age related pathophysiology, psychopharmacology, cultural/religious considerations, grief/loss, promotion of mental health, and therapeutic communication. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to develop ability to develop: proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, care planning skills related to patient actual, psychosocial, and potential problems in the delivery of total nursing care to meet needs of one client across the life span with acute/chronic mental health needs. Students must be concurrently enrolled in both the lecture and lab sections of this course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program in order to enroll in the course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 130, NURS 147, & NURS 149L.

### NURS 150. Medical Terminology 3 Credits (3)

Understanding of the basic elements of medical words. Use of medical abbreviations. Same as OEHO 120 and BOT 150. May be repeated up to 3 credits. Crosslisted with: BOT 150, AHS 120 and HIT 150.

### NURS 153. Medication and Dosage Calculation 1 Credit (1)

Techniques of dosage calculation for medication and fluid administration. RR applicable. Students must meet NMSU basic skills requirement in mathematics to enroll in this course.

Corequisite(s): NURS 156 and NURS 154.

### NURS 154. Physical Assessment 2 Credits (2)

Beginning techniques of physical assessment by systems will be presented using the nursing process as a guide for providing safe client centered care throughout the life span. Grade of C or better is required. May be repeated up to 2 credits. Restricted to: NURSING majors.

Restricted to Carlsbad campus only. **Prerequisite(s):** BIOL 1130 or BIOL 2210. **Corequisite(s):** NURS 153,NURS 156.

#### **NURS 155. Special Topics**

#### 1-4 Credits

Specific subjects to be announced in the Schedule of Classes.

### NURS 156. Basic Nursing Theory and Practice 6 Credits (4+6P)

Introduction to the nursing profession and the beginning skills of nursing practice as it relates to normalcy. The nursing process is presented as a means of guiding the student in providing safe client centered care. Ethical and legal aspects of nursing practice are also included. Basic clinical nursing skills will be presented and practiced in the nursing lab. The student will perform these skills with clients in an actual health care setting. May be repeated up to 6 credits. Consent of Program Director requires. Restricted to: NURSING majors. Restricted to Carlsbad campus only.

Corequisite(s): NURS 153,NURS 154.

### NURS 157. Maternal/Child Health Deviations 8 Credits (6+6P)

The concepts and principles of nursing care of the family from conception to adolescence. Utilizing the nursing process, the student provides safe client centered care to diverse clients and families. Theoretical instruction is applied to client care situation. Students collaborate with clients, families and the interdisciplinary team in meeting health care needs. Experiences may occur in any of the regional health care facilities. Grade of C or better required. May be repeated up to 8 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 156, NURS 153, and NURS 154.

Corequisite(s): NURS 210.

#### **NURS 201. Special Topics**

#### 1-4 Credits

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 10 credits. Restricted to: Community Colleges only.

Prerequisite: admission to the nursing program.

#### NURS 209. Independent Study

#### 1-4 Credits

Individual studies to meet identified student needs. May be repeated for a maximum of 10 credits. Restricted to: Community Colleges only.

Prerequisite: admission to the nursing program.

### NURS 210. Pharmacological Requisites of the Childbearing Family 1 Credit (1)

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care will be discussed focusing on medications commonly utilized with the childbearing family. Medication classes to be discussed include labor and delivery, analgesic, vitamins, respiratory, gynecological, endocrine, and anti-microbial/anti-infective drugs. Grade of C or better required. Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 2210 and BIOL 2225 and NURS 153, NURS 154 and NURS 156.

Corequisite(s): NURS 157.

### NURS 211. Pharmacological Requisites of Simple Health Deviations 1 Credit (1)

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care are addressed focusing on medications related to the psychiatric, gastrointestinal, musculoskeletal, gynecological, hematological, and anti-neoplastic client. Grade of C or better required. Restricted to: Carlsbad campus only.

**Prerequisite(s):** BIOL 2210 and BIOL 2225 and NURS 153,NURS 154, NURS 156, NURS 157 and NURS 210.

Corequisite(s): NURS 246 and NURS 258.

### NURS 212. Pharmacological Requisites of Complex Health Deviations 1 Credit (1)

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care is examined focusing on medications related to complex health deviations. Drug classes to be discussed include cardiovascular, renal, endocrine, and neurological. Grade of C or better required. Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 2210 and BIOL 2225, and NURS 153, NURS 154, NURS 156, NURS 157, NURS 246, NURS 258, NURS 210 and NURS 211.

Corequisite(s): NURS 256 and NURS 260.

### NURS 224. Maternal Child Nursing 5 Credits (4+3P)

This course provides the intermediate nursing student with an in-depth review of care of the childbearing woman, family structures and roles, and nursing care of the child from birth through adolescence. Emphasis includes the care of pre-partum, intra-partum and postpartum clients, the neonate and health deviations in pediatric clients. Clinical experiences in the simulation lab, the community, and acute care settings will provide the student with the opportunity to apply learned skills to provide total care to meet needs of up to two adult, neonatal, or pediatric clients and to apply care planning skills related to actual, psychosocial and potential problems. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

#### Corequisite(s): NURS 235, & NURS 236.

#### 6 Credits (4+6P)

NURS 226. Adult Health II

This course focuses on application of nursing process and theoretical concepts of care for adults with complex health alterations. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to apply: prioritization skills, maintain proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, and care planning skills related to patient actual, psychosocial, and potential problems in the delivery of nursing care to meet needs of three adult clients. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 224 & NURS 235.

### NURS 235. Nursing Leadership and Management 1 Credit (1)

This course introduces the intermediate nursing student to professional practice principles of nursing leadership and management including: health policy and politics, fiscal management & budgeting, conflict management, decision making, interdisciplinary practice, working with teams, roles in disaster planning and management, application of standards of care to risk management, organization of care delivery, health care systems, processes, and practice environments. May be repeated up to 1 credits. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to Community Colleges campuses only.

Corequisite(s): NURS 224, NURS 226.

### NURS 236. Nursing Preceptorship - Adult Health III 6 Credits (2+12P)

This course is the final course involving care of the patient with acute or chronic illness. It focuses on care of patients with complex or multisystem problems allowing the graduating nursing student to discuss and apply all the skills learned in previous nursing courses. After successfully passing the HESI exam, students have clinical practice with preceptor in various health care settings. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to: organize care of a group of clients, maintain proficiency in performance of nursing skills, collaborate with clients, families, peers and health care team members, and support care planning skills related to patient actual, psychosocial, and potential problems in the delivery of nursing care to meet needs of the preceptors group of clients. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program and have successfully completed all level 1, 2 and 3 nursing courses may enroll in this course. Clinical may include inpatient or outpatient care, days, evenings, nights, or weekend experiences. Students are required to work the preceptors assigned schedule. NCLEX Review must be done concurrently. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 201.

#### NURS 246. Health Deviations I 7 Credits (4+9P)

Introduction to medical/surgical clients, whose health care needs are routine and predictable. Focus is on simple health deviations, including concepts relative to health promotion and maintenance. The nursing process is utilized to provide evidenced based, safe client centered care. Students are expected to apply clinical judgment, communicate and collaborate with clients and the interdisciplinary team in providing care for a group of two to three clients. Grade of C or better required. May be repeated up to 7 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

**Prerequisite(s):** NURS 153, NURS 156, NURS 154, NURS 157 and NURS 210.

Corequisite(s): NURS 211, NURS 258.

#### NURS 256. Health Deviations II 8 Credits (4+12P)

Concepts and principles applied to clients with complex health deviations. Building upon knowledge gained in NURS 246, focus will be on acutely ill clients. The nursing process continues to serve as a guide to provide safe, client centered care. The student collaborates with the interdisciplinary team in all aspects of client care. Student experiences the role of the staff nurse under the guidance and direction of the nursing instructor. Grade of C or better required. May be repeated up to 8 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

**Prerequisite(s):** NURS 153, NURS 154, NURS 156, NURS 157, NURS 210, NURS 211, NURS 246, and NURS 258.

Corequisite(s): NURS 212,NURS 260.

### NURS 258. Psychosocial Requisites: A Deficit Approach 3 Credits (2+3P)

Nursing theory and practice as it relates to the care of the client experiencing psychosocial health deviations. The role of the nurse is discussed along with the ethical and legal aspects of care for the client with psychosocial disorders. Building upon the communication skills of listening and responding, the student develops the therapeutic skills of interpersonal relationships. Grade of C or better is required. May be repeated up to 3 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

**Prerequisite(s):** NURS 153, NURS 154, NURS 156, NURS 157, NURS 210, and NURS 246.

Corequisite(s): NURS 211, NURS 246.

### NURS 260. Management of Patients with Health Deviations 2 Credits (2)

A capstone course to the nursing program in which principles in management and delegation to less prepared personnel is explored. A review of leadership roles, legal issues, quality initiatives, informatics and scope of practice is included. Preparation for the NCLEX is an integral portion of the course. Grade of C or better is required. May be repeated up to 2 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, NURS 154, NURS 156, NURS 157, NURS 210, NURS 211, NURS 246, and NURS 258.

Corequisite(s): NURS 212, NURS 256.

## **Licensed Practical Nursing - Certificate**

Prefix	Title	Credits
Core Curriculum Requirements		
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
BIOL 2225	Human Anatomy and Physiology II	4
CEPY 1120G	Human Growth and Behavior	3
ENGL 1110G	Composition I	4
PSYC 1110G	Introduction to Psychology	3
Nursing Program Requirements		
NURS 146	Common Health Deviations	6
NURS 153	Medication and Dosage Calculation	1
NURS 154	Physical Assessment	2
NURS 156	Basic Nursing Theory and Practice	6
NURS 157	Maternal/Child Health Deviations	8
Total Credits		41

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Note: BIOL 2210 Human Anatomy and Physiology I for the Health Sciences and NA 101 Nursing Assistant Theory and Lab must be completed prior to entering the nursing program.

Course	Title	Credits
First Year		
Fall		
NURS 153	Medication and Dosage Calculation	1
NURS 154	Physical Assessment	2

NURS 156	Basic Nursing Theory and Practice	6
PSYC 1110G	Introduction to Psychology	3
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
	Credits	16
Spring		
NURS 157	Maternal/Child Health Deviations	8
CEPY 1120G	Human Growth and Behavior	3
ENGL 1110G	Composition I	4
BIOL 2225	Human Anatomy and Physiology II	4
	Credits	19
Summer		
NURS 146	Common Health Deviations	6
	Credits	6
	Total Credits	41

# **Nursing - Applied Associate Degree**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 69-71 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Choose one course from of 12-14 credits <sup>1, 2</sup>	n four of the following six content areas for a total	12-14
Area I: Communicat	tions	
ENGL 1110G	Composition I (Recommended)	
Area II: Mathematic	es	
MATH 1130G	Survey of Mathematics (Recommended) <sup>3</sup>	
or MATH 1220G	College Algebra	
Area III: Laboratory	Science	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) <sup>4</sup>	
Area IV: Social/Beh	avioral Sciences	
CEPY 1120G	Human Growth and Behavior (Recommended)	
Area V: Humanities		
Area VI: Creative an	d Fine Arts	
General Education Elect	ive	3
PSYC 1110G	Introduction to Psychology (Recommended)	
Core Requirements		
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences <sup>2</sup>	4
NA 101	Nursing Assistant Theory and Lab (or Current CNA certificate) <sup>2</sup>	6
Major Requirements		
Freshman Year Courses		
NURS 153	Medication and Dosage Calculation	1
NURS 154	Physical Assessment	2
NURS 156	Basic Nursing Theory and Practice	6
BIOL 2225	Human Anatomy and Physiology II	4
NURS 157	Maternal/Child Health Deviations	8
NURS 210	Pharmacological Requisites of the Childbearing Family	1
Sophomore Nursing Cou	ırses	

NURS 211	Pharmacological Requisites of Simple Health Deviations	1
NURS 246	Health Deviations I	7
NURS 258	Psychosocial Requisites: A Deficit Approach	3
NURS 212	Pharmacological Requisites of Complex Health Deviations	1
NURS 256	Health Deviations II	8
NURS 260	Management of Patients with Health Deviations	2
Total Credits		69-71

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- MATH 1220G College Algebra or MATH 1130G Survey of Mathematics is recommended for the degree but students may need to take any prerequisites needed to enter MATH 1220G or MATH 1130G first.
- Note: CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors), BIOL 2210 Human Anatomy and Physiology I for the Health Sciences, and NA 101 Nursing Assistant Theory and Lab must be completed prior to entering the nursing program.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course First Year	Title	Credits
the following classes r	nust be completed prior to entering the nursing	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) <sup>1</sup>	4
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
NA 101	Nursing Assistant Theory and Lab	6
	Credits	14
Fall		
NURS 153	Medication and Dosage Calculation	1
NURS 154	Physical Assessment	2
NURS 156	Basic Nursing Theory and Practice	6
BIOL 2225	Human Anatomy and Physiology II	4
General Education Elec	tive Course	3
PSYC 1110G	Introduction to Psychology (Recommended)	
	Credits	16
Spring		
NURS 157	Maternal/Child Health Deviations	8
NURS 210	Pharmacological Requisites of the Childbearing Family	1
Area IV: Social/Behavio	oral Sciences Course	3
CEPY 1120G	Human Growth and Behavior (Recommended)	
Area I: Communication	s Course	4
ENGL 1110G	Composition I (Recommended)	
	Credits	16

#### Second Year

#### Fall

NURS 211	Pharmacological Requisites of Simple Health Deviations	1
NURS 246	Health Deviations I	7
NURS 258	Psychosocial Requisites: A Deficit Approach	3
Area II: Mathematics C	ourse	3
MATH 1130G or MATH 1220G	Survey of Mathematics (Recommended) or College Algebra	
	Credits	14
Spring		
NURS 212	Pharmacological Requisites of Complex Health Deviations	1
NURS 256	Health Deviations II	8
NURS 260	Management of Patients with Health Deviations	2
	Credits	11
	Total Credits	71

Successful completion of CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) satisfies General Education Area III: Science requirement (4 credits).

# **Paralegal Studies**

The Paralegal Studies Certificate program is designed to provide the student with an overall knowledge of legal issues and a variety of skills that go beyond what is necessary for a legal secretary. Those skills encompass the ability to interview clients and witnesses, to conduct research, and to aid attorneys and other professionals in the preparation of legal documents and to assist attorneys in preparation for trial.

The course of study provides opportunities for the student to gain advanced knowledge of law, including torts, criminal law, family law, business law, and estate planning as well as other areas of law applicable to the modern practice. The student will receive training in skills needed to work in various setting that utilize paralegals such as government agencies, private non-profit agencies, corporate legal departments, private law offices, and title, abstract, and real estate offices.

Students who want to earn an Applied Associate Degree in Paralegal Studies will be able to apply the Paralegal Studies Certificate program courses to that degree. The Paralegal Certificate program can be completed in one year and requires completion of 30-31 credits. The Applied Associate Degree in Paralegal Studies program can be completed in two years and requires completion of 60-61 credits.

Paralegal Studies Certificate (p. 182)

# PL S 160. Legal System for the Paralegal 3 Credits (3)

Introduction to the court system, administrative agencies, functions of law offices, and professional conduct and legal ethics. Restricted to: Community Colleges only.

Prerequisite(s): ACT standard score in English of 16 or higher or a Compass score 76 or higher; for those scoring 13-15 in English on ACT or 35-75 on Compass, successful complete of CCDE 105N or CCDE 110N; for those scoring 12 or below on the ACT standard score in English or 34 or below on the Compass, successful completion of CCDE 105N & CCDE 110N.

### PL S 161. Legal Terminology

### 3 Credits (3)

Survey of the language of the law that will serve either as an introductory course or as a review course to prepare students for the certification test.

### PL S 162. The Virtual Law Office

#### 3 Credits (3)

The Virtual Law Office class is a 'hands-on', project oriented course designated to provide the student with the basic law office skills needed to function successfully in a law office setting. The student will gain a practical, working knowledge of the procedures necessary to work in a law office. The skills learned in the class will directly translate to real life situations. Restricted to: Community Colleges only.

Prerequisite(s): PLS 160.

### PL S 180. Constitutional Law for the Paralegal

### 3 Credits (3)

Case standing of the law of the Constitution and Bill of Rights with regard to day-to-day applications in the law practice. Documents dealing with constitutional problems in both civil and criminal areas of law will be drafted and discussed.

Prerequisite: PL S 160.

### PL S 190. Criminal Law for the Paralegal

### 3 Credits (3)

Introduction to federal and state criminal law; criminal proceedings, prosecution and defense, sentencing and appeal.

Prerequisite: PL S 160.

### PL S 200. Legal Ethics for the Paralegal

### 3 Credits (3)

Introduction to ethical dilemmas faced in the workforce and the rules of ethics developed by the American Bar Association, various national paralegal organizations, and the Supreme Court of New Mexico.

Restricted to: Community Colleges only.

# Prerequisite(s): PL S 160. PL S 203. Immigration Law

### 3 Credits (3)

Survey of the basics of immigration law including the rights and obligations of citizenship and the naturalization process.

Prerequisite: PL S 160.

### PL S 221. Internship I

### 2-4 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships can be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. Restricted to Community Colleges campuses only.

Prerequisite(s): PL S 274.

### PL S 222. Internship II

### 1-3 Credits

Continuation of PL S 221. Each credit requires specified number of hours of on-the-job work experience. Restricted to Community Colleges campuses only.

Prerequisite(s): PLS 221.

# PL S 231. The Law of Commerce for the Paralegal 3 Credits (3)

Law of contracts, negotiable instruments, bank transfers, secured transactions, debtor-creditor relations, agency, and business types and their formation. Students will study the relevant statutes as well as draft documents associated with these types of legal practice. Restricted to: Community Colleges only.

Prerequisite(s): PLS 160.

# PL S 272. Bankruptcy Law for the Paralegal 3 Credits (3)

Individual and corporate bankruptcy; the basic principles and processes of bankruptcy law as a system of debtor relief and debt collection. **Prerequisite:** PL S 160.

# PL S 274. Legal Research and Writing for the Paralegal I 3 Credits (3)

Legal memoranda, briefs, and pleadings will be prepared and written based on the student s original research. Research materials and techniques will be identified and studied; introduction of computer usage in legal research.

Prerequisite: PL S 160 and ENGL 1110G.

### PL S 275. Tort and Insurance for the Paralegal

### 3 Credits (3)

Primary legal principles of tort and insurance law and means of establishing insurance plans, types of torts and insurance, as well as use of specific forms and procedures relating to these areas.

Prerequisite: PL S 160.

# PL S 276. Wills, Trusts, and Probate for the Paralegal 3 Credits (3)

Cases and statutes dealing with wills, trusts, and probate. Emphasis on preparation and drafting of documents and the application of the law and documents to the client s problems.

Prerequisite: PL S 160.

# PL S 277. Family Law for the Paralegal 3 Credits (3)

Methods of conducting client interviews and drafting of pleadings and research relative to families. Laws relating to marriage, divorce, custody, support, adoption, name change, guardianship, and paternity.

Prerequisite: PL S 160.

### PL S 278. Litigation for the Paralegal

### 3 Credits (3)

The law of procedure and evidence will be considered through rules and cases. Case situations will be used to identify and solve problems.

Prerequisite: PL S 160.

# PL S 279. Legal Research and Writing for the Paralegal II 3 Credits (3)

Continuation of PL S 274. Advanced training in legal research problems with a focus on analysis, writing, and preparation of sophisticated legal memoranda and documents.

Prerequisite: PL S 274.

# PL S 280. Interviewing and Investigation for the Paralegal 3 Credits (3)

Techniques of legal interviewing and investigation with emphasis on development of human relations and communication skills.

Prerequisite: PL S 160.

### PL S 298. Independent Study

### 1-3 Credits (1-3)

Individual studies directed by consenting faculty with prior approval by department head. Restricted to Community Colleges campuses only. **Prerequisite(s):** PL S 160.

# **Paralegal Studies - Certificate**

Prefix	Title	Credits
Related Requirements		
ENGL 1110G	Composition I	4
COMM 1115G	Introduction to Communication	3
or COMM 1130G	Public Speaking	
Choose one from the	following:	3
CEPY 1120G	Human Growth and Behavior	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
BLAW 2110	Business Law I	3
OATS 105	Business English	3
or OATS 106	Business Mathematics	
OATS 213	Word Processing I	3
or OATS 214	Word Processing II	
or BCIS 1110	Introduction to Information Systems	
Major Requirements <sup>2</sup>		
PL S 160	Legal System for the Paralegal	3
PL S 180	Constitutional Law for the Paralegal	3
or PL S 190	Criminal Law for the Paralegal	
PL S 200	Legal Ethics for the Paralegal	3
PL S 274	Legal Research and Writing for the Paralegal I	3
Total Credits		31

- ENGL 1110G Composition I with a 'C' or better.
- Cumulative GPA of 2.5 and a 'C' or better required in these courses; PL S courses taken more than 7 years prior to graduation must be repeated.

Course First Year	Title	Credits
Fall		
OATS 105 or OATS 106	Business English or Business Mathematics	3
CEPY 1120G or PSYC 1110G or SOCI 1110G	Human Growth and Behavior or Introduction to Psychology or Introduction to Sociology	3
BLAW 2110	Business Law I	3
PLS 160	Legal System for the Paralegal	3
PL S 180 or PL S 190	Constitutional Law for the Paralegal or Criminal Law for the Paralegal	3
	Credits	15
Second Year		
Spring		
ENGL 1110G	Composition I	4
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	3
OATS 213 or OATS 214 or BCIS 1110	Word Processing I or Word Processing II or Introduction to Information Systems	3
PL S 200	Legal Ethics for the Paralegal	3

PL S 274	Legal Research and Writing for the Paralegal I	3
	Credits	16
	Total Credits	31

# Phlebotomist Technician - Certificate of Achievement

This course prepares students in one semester to be workforce ready and serve the community as a well-trained and well-educated phlebotomist technician. It provides students the opportunity to go directly into the workforce or apply their hands-on experience from this course to pursing additional education within the health and medical field.

Prefix	Title	Credits
NA 115	Phlebotomist Technician	6

Prerequisite/Corequisite: OEEM 101 CPR for the Health Care Professional

Course	Title	Credits
First Year		
Fall		
NA 115	Phlebotomist Technician	6
	Credits	6
	Total Credits	6

### **Pre-Business**

The Associate Degree in Pre-Business requires the completion of those courses which are needed before a major field may be declared in the College of Business Administration and Economics at NMSU Las Cruces. It is a generalized two-year curriculum that provides students with the necessary general education and lower division courses that constitute a solid base for a bachelor's degree in one of the many areas of business concentration including accounting, finance, management, marketing, real estate, and economics. The program also provides management skills for employment in entry level positions.

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Pre-Business - Associate in Pre-Business (p. 183)

# **Pre-Business - Associate in Pre-Business**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	C	redits
General Education			
Area I: Communications	S		
English Composition - L	evel 1		

Total Credits		6
Electives, to bring th	e total credits to 60 <sup>4</sup>	1
BUSA 1110	Intro to Business	
BCIS 1110	Introduction to Information Systems	
ACCT 2120	Principles of Accounting II	
ACCT 2110	Principles of Accounting I	
College of Business L	ower Division Requirements	
MATH 1350G	Introduction to Statistics ((grade of C- or better))	
Foundation Requirem	ents <sup>2</sup>	
Core Requirements		
MATH 1430G	Applications of Calculus I (Foundation Requirement)	
General Education Ele	ective	
Area VI: Creative and	Fine Arts <sup>3</sup>	
Area V: Humanities <sup>3</sup>		
ECON 2120G	Microeconomics Principles	
ECON 2110G	Macroeconomic Principles	
	er are required in ECON 2110G and ECON 2120G	
Area III: Laborato	ry Science Course (4 credits) <sup>3</sup>	
Area III/IV: Laboratory	Sciences and Social/Behavioral Sciences	1
MATH 1220G	College Algebra (Foundation Requirement) 1,2	
Area II: Mathematics		
HNRS 2175G	Introduction to Communications Honors	
COMM 1130G	Public Speaking	
COMM 1115G	Introduction to Communication	
AXED 2120G	Effective Leadership and Communication in Agriculture	
Choose one from the	e following:	
Oral Communication		
ENGL 2210G	Professional & Technical Communication	
English Composition	•	
ENGL 1110M	Composition I Multilingual	
ENGL 1110H	Composition I Honors	
ENGL 1110G	Composition I	

- Students may be required to take MATH 1215 Intermediate Algebra, depending on their math placement. MATH 1220G College Algebra or MATH 1430G Applications of Calculus I or MATH 1350G Introduction to Statistics fulfills the general education requirement in Math.
- All Foundation Requirement Courses must be taken, or satisfied with transfer credits, regardless of which Mathematics or Statistics courses satisfies the Area II General Education course: MATH 1220G College Algebra, MATH 1430G Applications of Calculus I and MATH 1350G Introduction to Statistics or A ST 311 Statistical Applications must be completed. If MATH 1350G Introduction to Statistics is taken before MATH 1220G College Algebra, then the Statistics course will satisfy the Area II Requirement and MATH 1220G College Algebra must be taken as a Foundation Requirement.
- See the General Education <u>section</u> of the catalog for a full list of courses.

Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course First Year Fall	Title	Credits
Choose one from the	following:	4
ENGL 1110G	Composition I	
ENGL 1110H	Composition I Honors	
ENGL 1110M	Composition I Multilingual	
MATH 1220G	College Algebra <sup>1</sup>	3
BCIS 1110	Introduction to Information Systems	3
Area VI: Creative and	Fine Art <sup>2</sup>	3
Choose one from the	following:	3
AXED 2120G	Effective Leadership and Communication in Agriculture	
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
HNRS 2175G	Introduction to Communications Honors	
Spring	Credits	16
ENGL 2210G	Professional & Technical Communication	3
ECON 2110G	Macroeconomic Principles	3
BUSA 1110	Intro to Business	3
Area V: Humanities <sup>2</sup>		3
Elective Course <sup>3</sup>		4
	Credits	16
Second Year Fall		
ACCT 2110	Principles of Accounting I	3
MATH 1430G	Applications of Calculus I	3
Elective Course <sup>3</sup>		3
Area III: Laboratory S	cience <sup>2</sup>	4
	Credits	13
Spring		
ACCT 2120	Principles of Accounting II	3
ECON 2120G	Microeconomics Principles	3
MATH 1350G	Introduction to Statistics	3
Elective Courses <sup>3</sup>		6
	Credits	15
	Total Credits	60

- Students may be required to take MATH 1215 Intermediate Algebra, depending on their math placement. MATH 1220G College Algebra or MATH 1430G Applications of Calculus I or MATH 1350G Introduction to Statistics fulfills the general education requirement in Math.
- See the General Education <u>section</u> of the catalog for a full list of courses.

Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor.

### Science

The **Associate of Science degree** offers the choice of three different **optional** concentrations, which allow for an easier transition into a baccalaureate science major depending on the student's choice of major.

This degree differs from the Associate of Arts degree in that there is a heavy emphasis in science and mathematics, a requirement for any Bachelor of Science degree. In order to earn an Associate of Science degree, the student must earn at least 16 credits in laboratory sciences. This degree meets all the New Mexico Common Core requirements necessary to complete a bachelor degree.

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements. A grade of C- or better is required for all courses for the degree. TOTAL CREDIT REQUIRED FOR DEGREE: 60

# IT IS STRONGLY RECOMMENDED TO CHOOSE A CONCENTRATION listed below.

Additional approved lab science classes can be found in Area III of the NM Common Core list, in the NMSU-C catalog. Any lab science class not listed below from the NM Common Core list must be approved through a sub/waiver request process in consultation with an advisor.

Associate of Science Degree (p. 185)

### **Options**

(Options are optional)

### **Biology Option**

BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution & BIOL 2610L Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory (4 cr.)

BIOL 2110G Principles of Biology: Cellular and Molecular Biology & BIOL 2110L Principles of Biology: Cellular and Molecular Biology Laboratory (4 cr.)

CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors (4 cr.)

CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors (4  $\,\mathrm{cr.}$ 

### **Natural Resources Option**

ENVS 1110G Environmental Science I (4 cr.)

BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution & BIOL 2610L Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory (4 cr.)

CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors (4 cr.)

CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors (4 cr.)

### **Physical Sciences Option**

CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors (4 cr.)

CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors (4 cr.)

PHYS 1230G Algebra-Based Physics I & PHYS 1230L Algebra-Based Physics I Lab (4 cr.)

PHYS 1240G Algebra-Based Physics II & PHYS 1240L Algebra-Based Physics II Lab (4 cr.)

#### Recommended electives for each Option:

### **Biology Option**

PHYS 1230G Algebra-Based Physics I & PHYS 1230L Algebra-Based Physics I Lab (4 cr.)

PHYS 1240G Algebra-Based Physics II & PHYS 1240L Algebra-Based Physics II Lab (4 cr.)

MATH 1511G Calculus and Analytic Geometry I (4 cr.)

MATH 1511G Calculus and Analytic Geometry I (4 cr.)

MATH 1521G Calculus and Analytic Geometry II (4 cr.)

### **Natural Resources Option**

BIOL 2110G Principles of Biology: Cellular and Molecular Biology & BIOL 2110L Principles of Biology: Cellular and Molecular Biology Laboratory (4 cr.)

CHEM 2115 Survey of Organic Chemistry and Laboratory (4 cr.)

GEOL 1110G Physical Geology (4 cr.)

MATH 1511G Calculus and Analytic Geometry I (4 cr.)

MATH 1521G Calculus and Analytic Geometry II (4 cr.)

FWCE 1110G Introduction to Natural Resources Management (3 cr.)

FWCE 2110 Principles of Fish and Wildlife Management (3 cr.)

PHYS 1310G Calculus -Based Physics I & PHYS 1310L Calculus -Based Physics I Lab (4 cr.)

### **Physical Sciences Option**

MATH 1250G Trigonometry & Pre-Calculus (4 cr.)

MATH 1511G Calculus and Analytic Geometry I (4 cr.)

MATH 1521G Calculus and Analytic Geometry II (4 cr.)

BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution & BIOL 2610L Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory (4 cr.)

BIOL 2110G Principles of Biology: Cellular and Molecular Biology & BIOL 2110L Principles of Biology: Cellular and Molecular Biology Laboratory (4 cr.)

GEOL 1110G Physical Geology (4 cr.)

# **Associate of Science Degree**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix Title	Credits
General Education	
Area I: Communication	
English Composition - Level 1	
ENGL 1110G Composition I	4
English Composition - Level 2	
Choose one from the following:	3
ENGL 2210G Professional & Technical Communication	
ENGL 2221G Writing in the Humanities and Social Science	
Oral Communication	
COMM 1130G Public Speaking	3
or COMM 1115G Introduction to Communication	
Area II: Mathematics	
Choose one from the following:	3-4
MATH 1220G College Algebra <sup>1</sup>	
MATH 1250G Trigonometry & Pre-Calculus <sup>1</sup>	
MATH 1511G Calculus and Analytic Geometry I <sup>1</sup>	
Area III/IV: Laboratory Sciences and Social/Behavioral Sciences	11
Two Area III: Laboratory Sciences courses	
Area IV: Social/Behavioral Science Course (3 credits) <sup>2</sup>	
Area V: Humanities <sup>2</sup>	3
Area VI: Creative and Fine Arts <sup>2</sup>	3
General Education Elective <sup>2</sup>	3-4
Core Requirements	
Laboratory Science Courses <sup>3</sup>	16
CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors	
Electives, to bring the total credits to 61 <sup>4</sup>	12
Total Credits	61-63

- Students who place above MATH 1220G College Algebra must take an additional 3 credits of higher-level MATH or science electives. Students may also need to complete any prerequisites before entering the course of their choice.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- 8 credits must be 'G' courses and students must have 24 credits total of Area III: Laboratory Science Courses. (See below for Recommended Courses based on subject area).

Students should complete these electives with additional courses in either Mathematics (Area II), Laboratory Sciences (Area III) or Engineering Electives to bring total to 60 credits. Mathematics and Science courses can be courses from General Education, in addition to the courses already required to fulfill the General Education requirements. (See below for Recommended Courses based on subject area).

# **Laboratory Science Course Recommendations**

It is strongly recommended to choose an option to focus your studies. Please note that some classes are only offered in a particular semester and may have prerequisites.

### **Option: Biology**

### **Laboratory Science Courses**

Laboratory Science Courses			
Prefix	Title	Credits	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	4	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	4	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4	

# Mathematics, Engineering and additional Laboratory Science Courses

Prefix	Title	Credits
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	4
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab	4
MATH 1511G	Calculus and Analytic Geometry I	4
MATH 1521G	Calculus and Analytic Geometry II	4

### **Option: Natural Resources**

### **Laboratory Science Courses**

Prefix	Title	Credits
ENVS 1110G	Environmental Science I	4
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	4
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4

# Mathematics, Engineering and additional Laboratory Science Courses

Prefix	Title	Credits
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology	4
	and Principles of Biology: Cellular and Molecular Biology Laboratory	
CHEM 2115	Survey of Organic Chemistry and Laboratory	4

GEOL 1110G	Physical Geology	4
MATH 1511G	Calculus and Analytic Geometry I	4
MATH 1521G	Calculus and Analytic Geometry II	4
PHYS 1310G	Calculus -Based Physics I	4
& PHYS 1310L	and Calculus -Based Physics I Lab	

### **Option: Physical Science**

### **Laboratory Science Courses**

Prefix	Title	Credits
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	4
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab	4

# Mathematics, Engineering and additional Laboratory Science Courses

Prefix	Title	Credits
MATH 1250G	Trigonometry & Pre-Calculus	4
MATH 1511G	Calculus and Analytic Geometry I	4
MATH 1521G	Calculus and Analytic Geometry II	4
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	4
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	4
GEOL 1110G	Physical Geology	4

# A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
ENGL 1110G	Composition I	4
Area III: Laboratory So	cience Course <sup>1</sup>	4
Area III: Laboratory So	cience Course <sup>2</sup>	4
Elective		4
	Credits	16
Spring		
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	3
MATH 1220G or MATH 1250G or MATH 1511G	College Algebra <sup>3</sup> or Trigonometry & Pre-Calculus or Calculus and Analytic Geometry I	3-4
Area III: Laboratory So	cience Course <sup>1</sup>	4
Area IV: Social/Behavioral Science Course 1		3
Area III: Laboratory So	cience Course <sup>2</sup>	4
	Credits	17-18

#### Second Year

#### Fall

ENGL 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science	3
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
Area V: Humanities Co	ourse <sup>1</sup>	3
Elective Course 4		4
	Credits	14
Spring		
Area III: Laboratory So	cience Course <sup>2</sup>	4
Area VI: Creative and	Fine Arts Course <sup>1</sup>	3
Elective Course 4		4
Gen Ed Elective Cours	se <sup>4</sup>	3-4
	Credits	14-15
	Total Credits	61-63

- See the <u>General Education</u> section of the catalog for a full list of courses.
- 8 credits must be 'G' courses and students must have 24 credits total of Area III: Laboratory Science Courses. (See below for Recommended Courses based on subject area).

### **Biology Option**

- BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution/BIOL 2610L Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory
- BIOL 2110G Principles of Biology. Cellular and Molecular Biology/BIOL 2110L Principles of Biology. Cellular and Molecular Biology Laboratory
- · CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors
- CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors

### **Natural Resources Option**

- ENVS 1110G Environmental Science I
- BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution/BIOL 2610L Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory
- CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors
- CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors

### **Physical Science Option**

- CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors
- CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors
- PHYS 1230G Algebra-Based Physics I/PHYS 1230L Algebra-Based Physics I Lab
- PHYS 1240G Algebra-Based Physics II/PHYS 1240L Algebra-Based Physics II Lab
- Students who place above MATH 121G College Algebra must take an additional 3 credits of higher-level MATH or science electives. Students may also need to complete any prerequisites before entering the course of their choice.

Mathematics, Engineering and Additional Laboratory Science Electives:

### **Biology Option**

- PHYS 1230G Algebra-Based Physics I/PHYS 1230L Algebra-Based Physics I Lab
- PHYS 1240G Algebra-Based Physics II/PHYS 1240L Algebra-Based Physics II Lab
- · MATH 1511G Calculus and Analytic Geometry I
- · MATH 1521G Calculus and Analytic Geometry II

### **Natural Resources Option**

- BIOL 2110G Principles of Biology: Cellular and Molecular Biology/BIOL 2110L Principles of Biology: Cellular and Molecular Biology Laboratory
- · CHEM 2115 Survey of Organic Chemistry and Laboratory
- · GEOL 1110G Physical Geology
- · MATH 1511G Calculus and Analytic Geometry I
- MATH 1521G Calculus and Analytic Geometry II
- PHYS 1310G Calculus -Based Physics I/PHYS 1310L Calculus -Based Physics I Lab

### **Physical Science Option**

- · MATH 1250G Trigonometry & Pre-Calculus
- · MATH 1511G Calculus and Analytic Geometry I
- MATH 1521G Calculus and Analytic Geometry II
- BIOL 2610G Principles of Biology. Biodiversity, Ecology, and Evolution/BIOL 2610L Principles of Biology. Biodiversity, Ecology, and Evolution Laboratory
- BIOL 2110G Principles of Biology. Cellular and Molecular Biology/BIOL 2110L Principles of Biology. Cellular and Molecular Biology Laboratory
- · GEOL 1110G Physical Geology

### **Social Work**

The **Associate Degree in Social Services** is designed to prepare students for careers in social service or community health agencies as paraprofessionals. In addition, because of the large New Mexico Common Core component, the degree also helps prepare the student for a successful transition into a bachelor's program in Social Work or other majors.

The bachelor degree requirement for a second language requires a grade of C or better grades through the 1120 level in any foreign language. If the student is a native speaker, the requirement is met with 113, 213 and 214 sequence in the language. If the student has taken one or two years of a second language in high school, they should take the language placement test to determine the level of course in which they should begin. See an advisor. Students interested in the Las Cruces campus Bachelor Degree of Social Work program may also be interested in the Associate in Social Work. Students planning to pursue a Bachelor's Degree of Social Work must apply for that Social Work Program. Students (particularly transfer students) should contact the Social Work Advisor in Las Cruces for advising and for the application packets.

### **Graduation Requirements**

ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher; the last 15 credits taken at NMSU. Students must earn a grade of C or better in all General Education/NM Common Core and Social Work courses. **TOTAL CREDITS REQUIRED FOR DEGREE: 60** 

Social Work - Associate Degree (p. 188)

# **Social Work - Associate Degree**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
<b>General Education</b>		
Area I: Communication		
English Composition - I	Level 1	
ENGL 1110G	Composition I	4
English Composition - I	Level 2	
Choose one from the	following:	3
ENGL 2210G	Professional & Technical Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
Oral Communication		
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
Area II: Mathematics		
MATH 1350G	Introduction to Statistics (Major Requirement)	3
Area III/IV: Laboratory	Science and Social/Behavioral Sciences	10
PSYC 1110G	Introduction to Psychology (Major Requirement)	
SOWK 2110G	Introduction to Human Services & Social Work (Major Requirement)	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
Area V: Humanities		
PHIL 1115G	Introduction to Philosophy (Recommended)	3
Area VI: Creative and F	ine Arts	
Choose one from the	following:	3
ARTH 1115G	Orientation in Art (Recommended)	
MUSC 1130G	Music Appreciation: Western Music (Recommended)	
THEA 1110G	Introduction to Theatre (Recommended)	
General Education Elec	tive <sup>2</sup>	3-4
Core Requirements		
Second Language (8 cr	redits)	
SPAN 1110	Spanish I	4
SPAN 1120	Spanish II	4
Or two semesters of a		
Major Requirements (	10 credits)	
BCIS 1110	Introduction to Information Systems	3
PSYC 2221	Applied Psychology	3
or PSYC 2230	Psychology of Adjustment	
HMSV 2110	Case Management	3
FYEX 1110	First-year Seminar	1
Electives, to bring the	total credits to 60 °	10
Recommended		
CEPY 1120G	Human Growth and Behavior	
MATH 1220G	College Algebra	
SOCI 1110G	Introduction to Sociology	
Total Credits		60-61

- MATH 1350G Introduction to Statistics is recommended for the degree but students may need to take any prerequisites needed to enter MATH 1350G first.
- See the General Education section of the catalog for a full list of
- 3 Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor.

# A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course First Year	Title	Credits
Fall		
FYEX 1110	First-year Seminar	1
BCIS 1110	Introduction to Information Systems	3
SOWK 2110G	Introduction to Human Services & Social Work	3
ENGL 1110G	Composition I	4
Elective Course 2		3
	Credits	14
Spring		
BIOL 1120G	Human Biology	4
& BIOL 1120L	and Human Biology Laboratory	
engl 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science	3
MATH 1350G	Introduction to Statistics <sup>4</sup>	3
PSYC 1110G	Introduction to Psychology <sup>1</sup>	3
	Credits	13
Second Year		
Fall		
SPAN 1110 or GRMN 1110	Spanish I <sup>1</sup> or German I	4
PHIL 1115G	Introduction to Philosophy	3
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
Elective Course 2		3
Area VI: Creative and	Fine Arts	3
Choose one from the	following:	
ARTH 1115G	Orientation in Art	
MUSC 1130G	Music Appreciation: Western Music ((Recommended))	
THEA 1110G	Introduction to Theatre	
	Credits	16
Spring		
SPAN 1120 or GRMN 1120	Spanish II or German II	4
PSYC 2221 or PSYC 2230	Applied Psychology or Psychology of Adjustment	3
HMSV 2110	Case Management	3
Elective Course <sup>2</sup>		4

General Education Elective Course <sup>3</sup>	3-4
Credits	17-18
Total Credits	60-61

- Students can take either SPAN 1110 Spanish I and SPAN 1120 Spanish II or two semesters of another Second Language prefix (GER, FREN, etc.)
- Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.
  - MATH 1220G College Algebra, CEPY 1120G Human Growth and Behavior and SOCI 1110G Introduction to Sociology are recommended electives
- See the <u>General Education</u> section of the catalog for a full list of courses.
- MATH 1350G Introduction to Statistics is recommended for the degree but students may need to take any prerequisites needed to enter MATH 1350G first.

# **Surgical Technology**

The Associate of Applied Science in Surgical Technology prepares students to demonstrate basic entry-level skills and concepts appropriate for performing the duties of a surgical technologist. Some of the technology skills and concepts include the aseptic technique, preparation for specific surgical procedures, participation in patient and instrumentation preparation for individual surgical cases, and collaboration with interdisciplinary team members for providing high quality patient outcomes. This program prepares the student for professional readiness for employment and attaining certification status.

Surgical Technologist will have numerous job opportunities upon graduation. Surgical Technologist may also be called operating room technicians and assist in surgical operations. They prepare operating rooms, arrange equipment, and assist doctors and nurses during surgeries. Typical work settings are hospitals, outpatient surgery centers, physician offices, and dentist offices.

### **PROGRAM OUTCOMES**

At the completion of the **Surgical Technology of Applied Science Associate Degree** program, the student should be able to:

- 1. Integrate the Surgical Technology knowledge base in affective, cognitive, and psychomotor domains; demonstrate skills following established criteria, protocols and objectives in the affective, cognitive, and psychomotor domains.
- 2. Demonstrate, discuss, and apply appropriate Surgical Technology procedures and protocols in various health care settings and situations; react appropriately and with professional demeanor while in various health care settings and situations.
- 3. Compare, contrast, discuss, demonstrate and apply knowledge of interpersonal skills and communications relative to procedures and protocols from the Surgical Technologist perspective when working with patients, patients' significant others, colleagues, other members of the health care team, and members of the community.

- 4. Operate all equipment effectively, efficiently, and safely while using appropriate protocols.
- 5. Function effectively, efficiently, and safely in the Surgical Technologist role.
- 6. Compare, contrast, discuss, demonstrate, and apply critical thinking skills, problem solving skills, ethical behavior and knowledge of Surgical Technologists capabilities, roles, responsibilities, ethical guidelines, scope of practice, and skills in a variety of settings and with a variety of procedures.
- 7. Compare, contrast, discuss, and demonstrate skills related to information literacy; access, gather, interpret, and analyze information, and accurately report it, especially as it pertains to Surgical Technology.
- 8. Compare, contrast, discuss, and integrate an understanding and valuing of their place in the health care system, as well as for other health care professionals.

### **COURSE INFORMATION**

The course number indicates whether the course is a freshman (100 level) or sophomore (200 level) course. The (3+3p) means that the class meets for 150 minutes per week for lectures and also requires 150 minutes per week of "laboratory" (practice, field work, or recitation). The suffix "G" indicates an approved general education course. The letter "N" will be added as a suffix to the course number when the course credits are not applicable to the baccalaureate and specified associate degrees.

### **ADMISSION TO THE ST PROGRAM**

- 1. High school diploma or GED certificate.
- Satisfactory scores on placement tests: Students who fail to make
  a satisfactory score on the placement tests will be required to enroll
  and pass the appropriate developmental class with a "C" or better.
  Placement test scores may not be utilized in lieu of a "D" or "F" in any
  developmental class.
- 3. CRIMINAL BACKGROUND CHECKS: Surgical Technology is a very selective medical field and criminal background checks are required for many positions per Department of Health for employment and certification. The Joint Commission also requires healthcare organizations to verify criminal background information on individuals who provide services, care, and treatment to patients/ clients during practicum activities.
- A "C" must be maintained in all ST curriculum courses to progress and/or graduate with AAS in Surgical Technology.

Students are admitted to the ST program in the Spring semester of each year. The deadline to apply for the program is 5:00 pm May 1. Students wishing to make application must complete all requirements set forth in the current application packet and submit to the Allied Health Director starting August 15th.

### **GRADUATION**

The Associate Degree of Applied Science in Surgical Technology is conferred at the completion of the ST program. The total requirements of the program must be completed before a degree is conferred.

Surgical Technology - Associate of Applied Science (p. 191)

# SURG 120. Surgical Technology Clinical I 2-4 Credits (6P)

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. This course is designed to prepare the student to enter the surgical environment. This course provides an introduction to the operating room, observation of surgical procedures, direct participation in the preoperative (pre-op, intra-op, post-op) preparation of individual cases and professional roles and responsibilities of individual members of the surgical team. Direct supervision is provided by the clinical professional. May be repeated up to 4 credits. Students must be admitted into Surgical Technology Program to enroll in this course.

Prerequisite(s): BIOL 2310, BIOL 2210, BIOL 2225, NURS 150.

Corequisite(s): SURG 140, SURG 145.

# SURG 140. Introduction to Surgical Technology 4 Credits (4)

This is an orientation to surgical technology theory, surgical pharmacology and anesthesia, technology sciences and patient care concepts and is designed to prepare the student to enter the surgical environment with entry-level knowledge necessary to understand patient responses to disease, illness, hospitalization, surgical procedures, commonly used pharmacological and anesthetic agents, and legal, moral, and ethical issues that could be encountered in the surgical environment. Restricted to Community Colleges campuses only.

Prerequisite(s): Admission to Surgical Technology Program; BIOL 2310, BIOL 2225, & NURS 150.

# SURG 145. Fundamentals of Perioperative Concepts & Techniques 4-5 Credits (3+3P)

This is an in-depth coverage of perioperative concepts such as aseptic/ sterile principles and practice, infectious processes, wound healing and creation and maintenance of the sterile field. This course is designed to prepare the student to enter the surgical environment with entry-level knowledge of aseptic technique principles and practices, the creation and maintenance of the sterile field including equipment, supplies and instrumentation, and basic case preparation and procedures. An introduction to diseases and disease processes that may be displayed by the surgical patient and the patient's bodily responses to disease are also included. May be repeated up to 5 credits.

Prerequisite(s): Admission to Surgical Technology Program, BIOL 2310, BIOL 2210, BIOL 2225, & NURS 150.

### SURG 150. Surgical Procedures I 4-5 Credits (3-5+3P)

This course is an introduction to surgical procedures and its related pathologies. Emphasis on surgical procedures related to general, obstetrics/gynecology, genitourinary, otorhinolaryngology and orthopedic surgical specialties incorporating instruments, equipment. It is designed to prepare the student to function actively in the surgical environment with entry-level knowledge of surgical procedures. This course expands the basic foundation principles and combines the study of common surgical procedures to include anatomy, physiology and pathophysiology. Specific patient care concepts, medications, instrumentation, equipment, supplies and complication related to selected surgical procedures will be discussed. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 140, SURG 145, and SURG 120.

# SURG 155. Pharmacology for the Surgical Technology 2 Credits (2)

This is an orientation to surgical pharmacology and anesthesia and is designed to prepare the student to enter the surgical environment with knowledge necessary to categorize the classification of drugs, calculate drug dosages and identify the therapeutic use, routes of administration, indications, contraindications and adverse effects of pharmacologic agents used in the perioperative setting. This course is the foundation for the acquisition of program specific competencies as identified by the AST Core Curriculum. Restricted to Carlsbad campus only.

# SURG 160. Surgical Procedures II 6 Credits (6)

This an introduction to surgical procedures and related pathologies. Emphasis on surgical procedures related to thoracic, peripheral vascular, plastic/reconstructive, ophthalmology, cardiac and neurological surgical specialties incorporating instruments. The course is designed to prepare the student to continue to function actively in the surgical environment with entry-level knowledge of more complex surgical procedures. This course expands the basic foundation principles and combines the study of complex surgical procedures to include anatomy, physiology, and pathophysiology. Specific patient care concepts, medications, instrumentation, equipment, supplies, and complications related to specific surgical procedures will be discussed. Realities of clinical practice and concepts of death and dying will also be discussed. Admission to Surgical Technology Program necessary to enroll in the

Prerequisite(s): SURG 150, SURG 260.

# SURG 230. Professional Readiness 2 Credits (2)

This course transitions the student into professional readiness for employment, professional readiness for attaining certification and professional readiness for maintaining certification status. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 140, SURG 145, SURG 120, SURG 150, SURG 260.

Corequisite(s): SURG 160,SURG 265.

# SURG 260. Surgical Technology Clinical II 4 Credits (12P)

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. This course is designed to provide the student the opportunity to function actively in the role as a surgical technologist and health care team member in a clinical setting under the direct supervision of faculty and health care staff. Applications of basic principles and practices combined with a supervised clinical experience participating in common surgical procedures is the focus. Admission to Surgical Technology Program necessary to enroll in the course. Restricted to Community Colleges campuses only.

Prerequisite(s): SURG 120, SURG 140, & SURG 145.

# SURG 265. Surgical Technology Clinical III 4 Credits (9P)

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. This course is designed to provide the student the opportunity to function actively in the role of a surgical technologist and health care team member in a clinical setting under the direct supervision of faculty and health care staff. Refinement and application of basic principles and practices combined with entry-level employment competency expectations is the focus. Preparation for the National Certification Examination for Surgical Technologists is also included. Admission to Surgical Technology Program necessary to enroll in the course. Prerequisite(s): SURG 260.

# Surgical Technology - Associate of Applied Science

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 63-65 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Credits

12-14

All courses must be completed with a C or higher.

Choose one course from the following six content areas for a total of 12-14

Title

Prefix

credits. 1, 2

**General Education** 

	select three courses fro Education requirement	ourses that will complete Area III; students must om the remaining areas to complete General s. The courses listed under each Area are for students to choose from to meet the Area	
	Area I: Communicat	ions	
	ENGL 1110G	Composition I (Recommended)	
	COMM 1115G	Introduction to Communication (Recommended)	
	COMM 1130G	Public Speaking (Recommended)	
	Area II: Mathematic	s	
	MATH 1220G	College Algebra (Either Recommended)	
	or MATH 1130G	Survey of Mathematics	
	Area III: Laboratory	Science	
		lete this Area based on the required combination 2310L, BIOL 2210 and BIOL 2225 (see below)	
	Area IV: Social/Beha	avioral Science	
	CEPY 1120G	Human Growth and Behavior (Recommended)	
Area V: Humanities <sup>2</sup>			
	Area VI: Creative an	d Fine Arts	
	PHIL 1145G	Philosophy, Law, and Ethics (Either Recommended)	
	or PHIL 2110G	Introduction to Ethics	
	General Education Elect	ive	3-4
	ENGL 2210G	Professional & Technical Communication (Recommended)	
	PHLS 1110G	Personal Health & Wellness (Recommended)	
	MATH 1350G	Introduction to Statistics (Recommended)	
	Core Requirements		
	HIT 150	Introduction to Medical Terminology	3

Completion of the following may meet the Area III: Laboratory Science with the 9-credit hour rule  $^{\rm 3}$ 

BIOL 2310 & 2310L	Microbiology and Microbiology Lab	4
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
BIOL 2225	Human Anatomy and Physiology II	4
Major Requirements		
Technical Requirement	s <sup>4</sup>	
SURG 140	Introduction to Surgical Technology	4
SURG 145	Fundamentals of Perioperative Concepts & Techniques	5
SURG 120	Surgical Technology Clinical I	4
SURG 155	Pharmacology for the Surgical Technology	2
SURG 150	Surgical Procedures I	5
SURG 260	Surgical Technology Clinical II	4
SURG 160	Surgical Procedures II	6
SURG 265	Surgical Technology Clinical III	4
SURG 230	Professional Readiness	2
Total Credits		63-65

- Each course selected must be from a different area and student cannot take multiple courses in the same area. For this degree Area III: Laboratory Science is complete with the 9-credit rule, student's will only need to select 8-10 credits of coursework to satisfy the General Education requirements instead of the standard 12-14 credits.
- See the <u>General Education</u> section of the catalog for a full list of courses
- Students taking nine or more credits in a specific subject area, even though the courses are not designated as General Education courses, will have met the general education requirements for that subject area.
- Students must complete all General Education & Core Requirement to be accepted into the Surgical Technology program and enroll in SURG courses.

# A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
Gen Ed Course - One course from either Area I, II, IV, V or VI 1, 2		
Gen Ed Course - One co	ourse from either Area I, II, IV, V or VI <sup>1, 2</sup>	3
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences <sup>3</sup>	4
HIT 150	Introduction to Medical Terminology	3
	Credits	13-14
Spring		
BIOL 2225	Human Anatomy and Physiology II <sup>3</sup>	4
GEN Ed Course - One course from either Area I, II, IV, V or VI <sup>1, 2</sup>		3
General Education Elec	tive Course - Any 'G' course, except Area III <sup>1, 2</sup>	3-4
	Credits	10-11

Summer

Summer		
BIOL 2310	Microbiology	4
& 2310L	and Microbiology Lab <sup>3</sup>	
	Credits	4
Second Year		
Fall		
SURG 140	Introduction to Surgical Technology	4
SURG 145	Fundamentals of Perioperative Concepts & Techniques	5
SURG 155	Pharmacology for the Surgical Technology	2
SURG 150	Surgical Procedures I	5
	Credits	16
Spring		
SURG 160	Surgical Procedures II	6
SURG 260	Surgical Technology Clinical II	4
SURG 265	Surgical Technology Clinical III	4
	Credits	14
Summer		
SURG 120	Surgical Technology Clinical I	4
SURG 230	Professional Readiness	2
	Credits	6
	Total Credits	63-65

- Each course selected must be from a different area and student cannot take multiple courses in the same area. For this degree Area III: Laboratory Science is complete with the 9-credit rule, student's will only need to select 8-10 credits of coursework to satisfy the General Education requirements instead of the standard 12-14 credits.
- See the <u>General Education</u> section of the catalog for a full list of courses.
- Students taking nine or more credits in a specific subject area, even though the courses are not designated as General Education courses, will have met the general education requirements for that subject area.

# **Welding Technology**

The **Welding Technology** program provides specialized training to prepare students for entry-level positions as a welder. All aspects of welding are covered including oxy-acetylene welding and cutting, braze welding, arc welding, gas metal arc welding (GMAW), gas tungsten arc welding (GTAW) and pipe welding.

### **Graduation Requirements**

Certificate in Welding Technology: WorkKeys® scores of level 4 in Reading for Information, Locating Information, and Applied Mathematics; cumulative GPA of 2.0 or higher. A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic program may have additional requirements.

AAS in Welding Technology: ENGL 1110G Composition I with a C or higher; placement into college-level math and reading courses or completion of developmental courses with a C or higher; cumulative GPA of 2.0 or higher. A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges.

Individual academic programs may have additional requirements. TOTAL CREDITS REQUIRED FOR DEGREE: (64)

Welding Technology - Certificate (p. 194)

**Gainful Employment Disclosure**: Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following <u>Gainful Employment</u> Disclosure

Welding Technology - Associate of Applied Science (p. 193)

### WELD 100. Structural Welding I

6 Credits (3+6P)

Development of basic skills in SMAW, OFC, and OFW in accordance with the AWS entry-level welder program.

### WELD 101. Fundamentals of Welding

### 3 Credits (3)

Set-up and adjustment of ARC and oxyacetylene equipment. Welding safety procedures and terminology. Skill development in laying weld beads with various patterns, positions, and processes.

### WELD 102. Welding Fundamentals

### 3 Credits (2+2P)

Survey of welding and cutting processes for nonmajors. Classroom instruction and laboratory work with OFC/OFW, SMAW, GMAW, FCAW, and plasma arc cutting.

### WELD 105. Introduction to Welding

#### 3 Credits (3)

Welding practices, procedures, and terminology. Welding safety, equipment types, electrode types in usage, joint design and testing procedures.

### WELD 110. Blueprint Reading (Welding)

### 3 Credits (3)

Interpretation of prints related to welding. Emphasis on AWS standard symbols for welding, brazing, and nondestructive examination.

### WELD 115. Structural Welding II

### 6 Credits (3+6P)

Continuation of WELD 100. Emphasis on AWS entry and advanced level welder skills with SMAW, including all-position welding with mild and stainless steel electrodes. Plasma arc and air-carbon arc cutting, metallurgy, heat treatment, and weld defects.

Prerequisite: WELD 100.

### WELD 120. Basic Metallurgy

### 3 Credits (3)

Properties of ferrous and nonferrous materials. Service conditions and heat treatment of metals related to welding trade.

Prerequisites: WELD 100 or consent of instructor.

# WELD 125. Introduction to Pipe Welding 3 Credits (2+2P)

Pipe fit-up and welding techniques for pipe fitting and pipe weld joint using SMAW, GMAW, GTAW, and FCAW, 2G welding of pipe. Restricted to: Community Colleges only.

**Prerequisite(s):** WELD 100, WELD 130, and WELD 140, or consent of instructor.

### WELD 126. Industrial Pipe Welding

### 3 Credits (3)

Enhancement of WELD 125. Development of more advanced pipe welding skills.

Prerequisite(s): WELD 110, WELD 130 and WELD 140.

Corequisite(s): WELD 125.

### WELD 130. Introduction to GMAW MIG)

### 3 Credits (2+2P)

Development of basic skills with gas metal arc welding (MIG) in accordance with AWS entry-level welder objectives. Wire electrodes, shielding/purge gases, and modes of metal transfer.

### WELD 140. Introduction to GTAW TIG)

### 3 Credits (2+2P)

Development for basic skills with gas tungsten arc welding (TIG) in accordance with AWS entry/advanced welder objectives. Welding mild steel, tungsten electrode preparation, filler wire selection, and equipment set-up.

### WELD 150. Pipe Welding II

#### 3 Credits (2+2P)

Continuation of WELD 125; with fillet and groove welded joints in a horizontal fixed and 45-degree fixed positions (5-F, 5-G, 6-F, 6-G). **Prerequisite:** WELD 125.

### WELD 151. Industrial Pipe Welding II

### 3 Credits (3)

Enhancement of WELD 150. Development of more advanced pipe welding skills. Emphasis on industry driven test.

Prerequisite(s): WELD 125 and WELD 126.

Corequisite(s): WELD 150.

### WELD 160. Introduction to SAW and FCAW

### 3 Credits (2+2P)

Submerged arc and flux-cored arc welding. Demonstrations and practice with machine travel submerged arc welding (SAW), flux-cored arc welding (FCAW-G, FCAW-S) on mild steel plate and pipe. Restricted to: Community Colleges only.

### WELD 170. Welded Fabrication

### 3 Credits (1+4P)

Development of fabrication skills including basic layout, measuring, and utilization of various welding processes including out-of-position welding. Use of common shop tools.

**Prerequisites:** WELD 100, WELD 110, WELD 130, and OETS 104 or OETS 118.

### OLIO IIIO.

### WELD 180. GTAW II 3 Credits (2+2P)

Continuation of WELD 140. Development of more advanced GTAW skills. Emphasis on pipe welding with mild steel, stainless steel, and aluminum. **Prerequisite:** WELD 140 or consent of instructor.

### WELD 190. Welded Art

### 3 Credits (1+4P)

Students explore the possibilities of welded art in the form of sculpture, jewelry, furniture and as a framework to support other art media. Offered as an elective for students who wish to create art using welding. May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): WELD 102.

### WELD 211. Welder Qualification

### 6 Credits (3+6P)

Laboratory and classroom instruction on AWS and ASME Welder Performance Qualification Tests. All position plate and pipe techniques and tests for SMAW, GMAW, GTAW, FCAW, and SAW. Nondestructive and destructive examination methods. Basics of welding codes. Restricted to majors.

**Prerequisites:** OETS 104 or OETS 118; and WELD 100, WELD 110, WELD 120, WELD 130, WELD 140, WELD 160 and WELD 180 or consent of instructor.

### WELD 221. Cooperative Experience I

#### 1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U. Restricted to majors.

Prerequisites: WELD 100 or WELD 101 and consent of instructor.

### WELD 255. Special Problems in Welding Technology

#### 1-6 Credits

Individual studies in areas of welding technology. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

#### WELD 295. Special Topics

#### 1-4 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

# **Welding Technology - Associate of Applied Science**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 63-66 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education	on	
Choose one cours	se from four of the following six content areas for a total 1,2	12-14
Area I: Comm	nunications	
Area II: Mathe	ematics	
Area III: Labo	ratory Science	
Area IV: Socia	al/Behavioral Sciences	
Area V: Huma	nities	
Area VI: Creat	tive and Fine Arts	
General Education	n Electives <sup>2</sup>	3-4
Core Requiremen	nts	
OETS 118	Mathematics for Technicians	3
WELD 100	Structural Welding I	6
WELD 105	Introduction to Welding	3
WELD 110	Blueprint Reading (Welding)	3
WELD 115	Structural Welding II	6
WELD 125	Introduction to Pipe Welding	3
WELD 126	Industrial Pipe Welding	3
WELD 130	Introduction to GMAW MIG)	3
WELD 140	Introduction to GTAW TIG)	3
WELD 150	Pipe Welding II	3
WELD 151	Industrial Pipe Welding II	3
WELD 170	Welded Fabrication	3
WELD 211	Welder Qualification	6
Total Credits		63-66

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

### A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year Fall		
WELD 100	Structural Welding I	6
WELD 105	Introduction to Pipe Welding	3
WELD 120	Introduction to GMAW MIG)	3
WELD 130	Introduction to GTAW TIG)	3
WLLD 140	Credits	15
Carina	Credits	15
Spring WELD 115	O+	C
	Structural Welding II	6
WELD 150	Pipe Welding II	3
WELD 105	Introduction to Welding	3
General Education Ele		3-4
	Credits	15-16
Summer		
WELD 170	Welded Fabrication	3
GEN Ed Course - One	course from Areas I-VI <sup>1,2</sup>	3
	Credits	6
Second Year		
Fall		
WELD 110	Blueprint Reading (Welding)	3
WELD 126	Industrial Pipe Welding	3
OETS 118	Mathematics for Technicians	3
GEN Ed Course - One	course from Areas I-VI <sup>1, 2</sup>	3
	Credits	12
Spring		
WELD 211	Welder Qualification	6
WELD 151	Industrial Pipe Welding II	3
GEN Ed Course - One	course from Areas I-VI <sup>1, 2</sup>	3-4
	course from Areas I-VI <sup>1, 2</sup>	3-4
	Credits	15-17
	Total Credits	63-66

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> section of the catalog for a full list of courses.

# **Welding Technology - Certificate**

Prefix	Title	Credits	
Core Curriculum Requirements			
WELD 100	Structural Welding I	6	
WELD 105	Introduction to Welding	3	
WELD 110	Blueprint Reading (Welding)	3	
WELD 115	Structural Welding II	6	
WELD 125	Introduction to Pipe Welding	3	
WELD 130	Introduction to GMAW MIG)	3	
WELD 140	Introduction to GTAW TIG)	3	
WELD 150	Pipe Welding II	3	
Total Credits		30	

Visit with an advisor for help with creating a customized plan.

Course	Title	Credits
First Year		
Fall		
WELD 100	Structural Welding I	6
WELD 125	Introduction to Pipe Welding	3
WELD 130	Introduction to GMAW MIG)	3
	Credits	12
Spring		
WELD 115	Structural Welding II	6
WELD 150	Pipe Welding II	3
WELD 105	Introduction to Welding	3
	Credits	12
Second Year		
Fall		
WELD 110	Blueprint Reading (Welding)	3
WELD 140	Introduction to GTAW TIG)	3
	Credits	6
	Total Credits	30

# **Course Descriptions**

Please note, not all courses listed below are taught at NMSU-C. Please check NMSU-C's current schedule for actual offerings.

### Α

- · A S-ARTS AND SCIENCES (p. 196)
- ACCT-ACCOUNTING (p. 196)
- · ACES-AGRI, CONSUMER & ENV SCIE (p. 197)
- AEEC-AGRICULTURAL ECON/ECON (p. 197)
- AERO-AEROSPACE STUDIES (p. 197)
- AERT-AEROSPACE TECHNOLOGY (p. 198)
- AGRO-AGRONOMY (p. 199)
- AHS-ALLIED HEALTH SCIENCE (p. 199)
- ANSC-ANIMAL SCIENCE (p. 199)
- ANTH-ANTHROPOLOGY (p. 201)
- ARCH-ARCHITECTURE (p. 201)
- ART-ART (p. 203)
- ARTH-ART HISTORY (p. 203)
- ARTS-ART STUDIO (p. 203)
- ASTR-ASTRONOMY (p. 205)
- AUTO-AUTOMOTIVE TECHNOLOGY (p. 206)
- AVIM-AVIATION MAINTENANCE (p. 208)
- AXED-AGRICULTURAL EXTN EDUC (p. 208)

### B

- B A-BUSINESS ADMINISTRATION (p. 209)
- BCHE-BIOCHEMISTRY (p. 209)
- BCIS-BUSINESS COMPUTER SYSTEMS (p. 209)
- BCT-BUILDING CONSTRUCTION TECH (p. 209)
- BFIN-BUSINESS FINANCE (p. 211)
- BIOL-BIOLOGY (p. 211)
- BLAW-BUSINESS LAW (p. 212)
- BLED-BILINGUAL EDUCATION (p. 212)

- BMGT-BUSINESS MANAGEMENT (p. 213)
- BOT-BUSINESS OFFICE TECHNOLOGY (p. 215)
- BUSA-BUSINESS ADMINISTRATION (p. 215)

### C

- C E-CIVIL ENGINEERING (p. 215)
- C S-COMPUTER SCIENCE (p. 215)
- CCDE-DEVELOPMENTAL ENGLISH (p. 216)
- CCDM-DEVELOPMENTAL MATHEMATICS (p. 216)
- CCDR-DEVELOPMENTAL READING (p. 217)
- CCDS-DEVELOPMENTAL SKILLS (p. 217)
- CEPY-COUNSELING & EDUCATIONAL PSYCHOLOGY (p. 217)
- CHEF-CULINARY ARTS (p. 218)
- CHEM-CHEMISTRY (p. 220)
- CHIN-CHINESE (p. 221)
- CHME-CHEMICAL & MATERIALS ENGR (p. 221)
- CHSS COMM HEALTH/SOC SRVCS (p. 222)
- CJUS-CRIMINAL JUSTICE (p. 222)
- COMM-COMMUNICATION (p. 222)
- CSEC-CYBERSECURITY (p. 223)
- CTEC-CYBER TECHNOLOGY (p. 223)
- CTFM-CLTHNG/TXTLS/FSHN MRCHDSG (p. 225)

### D

- DANC-DANCE (p. 225)
- DAS-DENTAL ASSISTING (p. 227)
- DHYG-DENTAL HYGIENE/HYGIENIST (p. 228)
- DMS-DIAGNOSTIC MED SONOGRAPHY (p. 230)
- DRFT-DRAFTING (p. 232)

### Ε

- E E-ELECTRICAL ENGINEERING (p. 235)
- E T-ENGINEERING TECHNOLOGY (p. 235)
- ECED-EARLY CHILDHOOD EDUCATION (p. 238)
- ECON-ECONOMICS (p. 240)
- EDLT-EDUCATIONAL TECHNOLOGY (p. 240)
- EDUC-EDUCATION (p. 240)
- ELAD-EDUCATIONAL LEADERSHIP ADMINISTRATION (p. 241)
- ELT ELECTRONICS TECHNOLOGY (p. 241)
- <u>ELWK-ELECTRICAL LINEWORKER</u> (p. 242)
- ENGL-ENGLISH (p. 243)
- ENGR-ENGINEERING (p. 245)
- ENTR-ENTREPRENEURSHIP (p. 245)
- ENVS-ENVIRONMENTAL SCIENCE (p. 245)
- EPWS-ETMLGY/PLNT PTHLGY/WD SCI (p. 245)

### F

- FCSC-FAMILY AND CONSUMER SCIENCES (p. 245)
- · FCST-FAMILY AND CHILD STUDIES (p. 246)
- FDMA-FILM & DIGITAL MEDIA ARTS (p. 246)
- FIRE-FIRE INVESTIGATION (p. 250)
- FREN-FRENCH (p. 252)

- FSTE-FOOD SCIENCE & TECHNOLOGY (p. 253)
- · FWCE-FISH, WILDLF, CONSERV ECOL (p. 253)
- FYEX-FIRST YEAR EXPERIENCE (p. 253)

### G

- GENE-GENETICS (p. 254)
- GEOG-GEOGRAPHY (p. 254)
- GEOL-GEOLOGY (p. 255)
- GNDR-WOMEN'S STUDIES (p. 255)
- · GRMN-GERMAN (p. 255)

### Н

- HIST-HISTORY (p. 256)
- HIT-HEALTH INFO TECHNOLOGY (p. 257)
- HLED-HEALTH EDUCATION (p. 258)
- HMSV-HUMAN SERVICES (p. 258)
- HNRS-HONORS (p. 258)
- HORT-HORTICULTURE (p. 260)
- · HOST-HOSPITALITY AND TOURISM (p. 260)
- HRTM-HOTEL/RESTRNT/TOURISM MGT (p. 261)
- HVAC-HEATING/AC/REFRIGERATION (p. 262)

### ı

- I E-INDUSTRIAL ENGINEERING (p. 263)
- INMT INDUSTRIAL MAINTENANCE (p. 263)
- INTEGRATED NATURAL SCIENCES (p. 264)

### 1

- JAPN-JAPANESE (p. 264)
- JOUR-JOURNALISM (p. 265)

- L SC-LIBRARY SCIENCE (p. 265)
- LANG-LANGUAGE (p. 267)
- LAWE-LAW ENFORCEMENT (p. 267)
- LIBR-LIBRARY SCIENCE (p. 268)
- LING-LINGUISTICS (p. 268)

### M

- M E-MECHANICAL ENGINEERING (p. 268)
- M SC-MILITARY SCIENCE (p. 269)
- MAT-AUTOMATION & MANUFACTURING (p. 269)
- MATH-MATHEMATICS (p. 270)
- MGMT-MANAGEMENT (p. 272)
- MKTG-MARKETING (p. 272)
- MUSC-MUSIC (p. 272)

### Ν

- NA NURSING ASSISTANT (p. 274)
- NAV-NAVAJO (p. 276)
- NGEC-NATURAL GAS ENGINE COMP (p. 276)

- · NURS-NURSING (p. 276)
- NUTR-NUTRITION (p. 280)

### 0

- · OATS-OFFICE ADMINISTRATION TECHNOLOGY SYSTEMS (p. 280)
- OEBM-BIOMEDICAL TECHNOLOGY (p. 282)
- OECS-COMPUTER TECHNOLOGY (p. 283)
- OEEM-PARAMEDIC (p. 285)
- OEET- ELECTRICAL TRADES (p. 288)
- · OEGR-DIGITAL GRAPHIC TECH (p. 288)
- · OEGS-GEOGRAPHIC INFO SYS (p. 288)
- · OETS-TECHNICAL STUDIES (p. 289)

### P

- PHED-PHYSICAL EDUCATION (p. 289)
- PHIL-PHILOSOPHY (p. 290)
- PHLS-PUBLIC HEALTH SCIENCES (p. 290)
- PHYS-PHYSICS (p. 290)
- PL-S-PARALEGAL SERVICES (p. 292)
- POLS-POLITICAL SCIENCE (p. 293)
- PORT-PORTUGUESE (p. 294)
- PSYC-PSYCHOLOGY (p. 294)

### R

- RADT-RADIOLOGIC TECHNOLOGY (p. 294)
- RESP RESPIRATORY THERAPY (p. 295)
- · RGSC-RANGE SCIENCE (p. 296)

### S

- SIGN-SIGN LANGUAGE (p. 297)
- SMET-SCIENCE/MATH/ENG/TECH (p. 297)
- SOCI-SOCIOLOGY (p. 297)
- SOIL-SOIL (p. 297)
- · SOWK-SOCIAL WORK (p. 298)
- SPAN-SPANISH (p. 298)
- SPED-SPECIAL EDUCATION (p. 299)
- SPHS-SPEECH & HEARING SCIENCE (p. 299)
- SPMD-SPORTS MEDICINE (p. 299)
- SUR-SURVEYING (p. 300)
- · SURG-SURGICAL TECHNOLOGY (p. 300)

### T

- TCEN-ENVIRONMENTAL/ENERGY TECH (p. 301)
- THEA-THEATER (p. 303)

### W

- WATR-WATER UTILITIES (p. 304)
- WELD-WELDING TECHNOLOGY (WELD) (p. 305)

# A S-ARTS AND SCIENCES (A S)

# A S 100. Insights: University Experience for Future Careers 1 Credit (1)

Research and investigation of college majors and career opportunities.

#### A S 101. Success Seminar

### 1 Credit (1)

Academic and personal strategies and campus resources to enhance scholastic achievement. May be repeated up to 1 credits.

### A S 103. Quantitative Foundations

### 3 Credits (3)

Course is designed to prepare students for College level mathematics. Initial assessments generate individualized paths to mastery of fundamental skills. Course also covers strategies and campus resources to enhance scholastic achievement. Traditional Grading with RR. May be repeated up to 6 credits. Traditional Grading with RR. Restricted to Las Cruces campus only.

### A S 200. Interdisciplinary Topics

#### 1-4 Credits

An interdisciplinary approach to subject matter cutting across departmental fields. Specific subjects to be announced in the Schedule of Classes.

# **ACCT-ACCOUNTING (ACCT)**

# ACCT 101. Supplemental Instruction to ACCT 221 1 Credit (1)

Collaborative workshop for students in ACCT 221 – Financial Accounting. Course does not count toward departmental degree requirements. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

Corequisite(s): ACCT 221.

### ACCT 200. A Survey of Accounting

### 3 Credits (3)

Emphasis on financial statement interpretation and development of accounting information for management. For engineering, computer science, and other non business majors. Community Colleges only. **Prerequisite:** one C S course or consent of instructor.

### **ACCT 2110. Principles of Accounting I**

### 3 Credits (3)

An introduction to financial accounting concepts emphasizing the analysis of business transactions in accordance with generally accepted accounting principles (GAAP), the effect of these transactions on the financial statements, financial analysis, and the interrelationships of the financial statements.

### ACCT 2120. Principles of Accounting II

### 3 Credits (3)

An introduction to the use of accounting information in the management decision making processes of planning, implementing, and controlling business activities. In addition, the course will discuss the accumulation and classification of costs as well as demonstrate the difference between costing systems.

Prerequisite(s): ACCT 2110.

# ACES-AGRI, CONSUMER & ENV SCIE (ACES)

### ACES 1120. Freshman Orientation

### 1 Credit (1)

Orientation to University life, including the understanding and utilization of resources that promote University success. Designed to promote success in achieving a career objective and perseverance for degree completion. Promotes a recognition of changes required in moving from high school to the University. Eight weeks in length, required for all freshmen in the College of Agricultural, Consumer and Environmental Science.

# ACES 1210. Financial Fitness for College Students 1 Credit (1)

An introduction to personal financial practices in post high school and/ or college lives. Emphasis is placed on budgeting, savings, investment, college debt, student loans, credit cards, scams and consumer protection.

### ACES 1220. Academic Excellence

### 1-3 Credits (1-3)

Academic curriculum of excellence that includes the development of collaborative learning and student success environment, learning diverse learning styles and multiple intelligences, and developing multicontextual academic communication styles. Restricted to: Open to all ACES majors. Restricted to Las Cruces campus only.

### **AEEC-AGRICULTURAL ECON/ECON**

# AEEC 1110. Introduction to Agricultural Economics and Business 3 Credits (3)

Orientation to agricultural economics and business through the discovery process for the consumer in the food, fiber and natural resource sectors of the global economy. The course will discuss the application of microand macro-economic principles as they relate to agricultural economics and business. May be repeated up to 3 credits.

# AEEC 1120. Careers in Food and Agribusiness 1 Credit (1)

Orientation to agribusiness management. Students will learn about agricultural production and marketing in New Mexico, the United States, and the world. Students will be introduced to faculty and staff within the department, learn about career opportunities available to AEAB graduates, and develop a greater appreciation of agricultural management issues. May be repeated up to 1 credits. Restricted to Las Cruces campus only.

Prerequisite(s): Freshman status only or obtain consent of instructor.

# AEEC 2110. Principles of Food and Agribusiness Management 3 Credits (3)

Description and application of management and financial principles, market planning, and organization theory in small business situations. May be repeated up to 3 credits.

# AEEC 2120. Introduction to Food and Agribusiness Accounting 3 Credits (3)

Purpose and methods of keeping and analyzing farm and ranch records. Net worth and income statements, efficiency measures, analysis of the business, and tax computations. May be repeated up to 3 credits.

# AEEC 2130G. Survey of Food and Agricultural Issues 3 Credits (3)

Survey of food and agricultural issues, including: geography of food production and consumption; human-agricultural-natural resource relations; agriculture in the United States and abroad; modern agribusiness; food safety; food, agriculture, and natural resources policy; ethical questions; role and impact of technology. Crosslisted with: FSTE 2130G.

# AEEC 2140. Technology and Communication for Business Management 3 Credits (2+2P)

Understanding and improving skills for data analysis, information management and communication is the focus of this course. Drawing examples from a variety of management, business, technological and research situations, students discover the versatility and variety of uses of computer applications such as spreadsheet, database, presentation and document software. Emphasizing a 'hands-on' approach students learn the foundations of these tools and their use.

### **AEEC 2996. Special Topics**

#### 1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree. Consent of instructor required.

## **AERO-AEROSPACE STUDIES (AERO)**

### AERO 121. Heritage and Values

2 Credits (1.25+2P)

'Heritage and Values of the United States Air Force,' is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

# AERO 122. Heritage and Values II 2 Credits (1.25+2P)

'Heritage and Values of the United States Air Force,' is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, and organization of the Air Force. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

# AERO 221. Team and Leadership Fundamentals 2 Credits (1.25+2P)

Teams and Leadership Fundamentals, focuses on laying the foundation for teams and leadership. The topics include skills that allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

# AERO 222. Team and Leadership Fundamentals II 2 Credits (1.25+2P)

Team and Leadership Fundamentals, focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

# AERO 223. Air Force Leadership Development 1 Credit (2P)

This course prepares cadets to excel in field training. Cadets are prepared in all facets of field training, including: leadership competency evaluations, the Cadet's Guide to Field Training, individual drill evaluations, attention to detail, dining hall procedures, maintenance of living areas, and the group problem solving process. Restricted to: Main campus only.

# AERT-AEROSPACE TECHNOLOGY (AERT)

# AERT 105. Aerospace Engineering PLTW 4 Credits (2+4P)

Introduce the student to Aerospace Engineering (AE) concepts and history. Studied topics include History of Flight, Aerodynamics, Rocket Science, Orbital Physics, Systems Engineering and Life Support/Environmental Systems. Restricted to: Community Colleges only.

# AERT 111. Basic Electricity and Electronics 3 Credits (2+2P)

Fundamentals of electricity and electronics, basic circuit devices, meters, transistors, integrated fiber optics, and industrial application topics. Minimum math proficiency of CCDM 103 or CCDM 104 required or math placement into CCDM 114 or higher. Restricted to: Community Colleges only. Crosslisted with: ELT 105

# AERT 121. Introduction to the Aerospace Workplace 4 Credits (2+4P)

The course covers space history, regulations, controls, aerospace industry terminology and acronyms as well as hands-on activities related to tools, procedures, and standard practices. Restricted to: Community Colleges only.

# AERT 122. Aerospace Safety and Quality 3 Credits (2+2P)

Covers identification of hazards, personal protective equipment, safe practices, and protection of personnel, property, and equipment in the aerospace environment. Basic principles of quality assurance engineering and quality control relating to work processes will be discussed. Restricted to: Community Colleges only.

# AERT 211. Electromechanical Devices 4 Credits (2+4P)

Theory and application of electromechanical devices and digital control circuits. Includes AD and DA converters, pneumatics, hydraulics, programmable logic controllers, DC, AC and stepper motors, and servomechanisms. Crosslisted with: MAT 240.

Prerequisite(s): ELT 160.

# AERT 212. Materials and Processes (Basic Metallurgy) 3 Credits (2+2P)

Basic Metallurgy: Aluminum and its alloys (Alclad), hardening, tempering, annealing, anodizing, magnetism, titanium, copper, stainless steel, surgical steel, safety wire, iron rust. Metallurgical Processes: Welding and soldering. Inspection Fundamentals: Eddy currents, magnetic particles (ferrous and non-ferrous metals), ultrasonic, x-ray, visual, corrosion and corrosion control, and vacuum bagging. Restricted to: Community Colleges only.

### AERT 213. Aerospace Fluid Systems

### 3 Credits (2+2P)

This course includes a familiarization of fluid system components, characteristics, and applications. Cryogenic and hypergolic materials and high pressure systems are also covered. Restricted to: Community Colleges only.

### AERT 214. Aerospace Systems

### 3 Credits (2+2P)

This course provides an introduction to expendable and reusable spacecraft systems including hydraulic, pneumatic, electrical, propulsion, mechanical, HVAC, and ECLSS (Environmental Control and Life Support System). How systems interact with computer and data acquisition systems is also covered. Restricted to: Community Colleges only.

# AERT 221. Inspection Requirements and Planning Metrology 3 Credits (2+2P)

Course teaches the benefits of inspection, quality control, material conditions. Also covers measurements, including temperature, ultrasonic, vibration and more. Restricted to: Community Colleges only.

### **AERT 222. Electromechanical Systems**

### 3 Credits (2+2P)

Principles and applications of preventive and corrective maintenance procedures on industrial production machines using systems technical and maintenance manuals to develop troubleshooting procedures using systems block and schematic diagrams. Crosslisted with: MAT 245. Prerequisite(s)/Corequisite(s): AERT 221 or MAT 240. Prerequisite(s): ELT 160.

# AERT 224. Aerospace Tests and Measurements 3 Credits (2+2P)

This course covers electrical and mechanical testing procedures (primarily non-destructive testing), equipment, measurements, and instrumentation involved in aerospace systems. Verification of tool and equipment calibration is also covered.

Prerequisite(s)/Corequisite(s): AERT 221. Restricted to: Community Colleges only.

### **AERT 225. Cooperative Experience**

### 1-3 Credits (1-3)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Consent of instructor required. Graded: S/U. Restricted to: Community Colleges only.

### **AERT 255. Special Topics**

### 1-4 Credits (1-4)

Specific topics to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

### AERT 290. Independent Study

### 1-3 Credits (1-3)

Individual studies in areas directly related to aerospace. Consent of instructor required. Restricted to: Community Colleges only.

## **AGRO-AGRONOMY (AGRO)**

# AGRO 1110G. Introduction to Plant Science (Lecture & Lab) 4 Credits (3+2P)

This is an introductory course for understanding plant science. Basic biological, chemical, and physical principles of various plants are covered. The focus of this course is on plants/crops used in agriculture production of food and fiber as well as pasture and range plants. Plant taxonomy and soil properties will also be discussed. Same as HORT 1115G.

### AGRO 2160. Plant Propagation

### 3 Credits (2+2P)

Practical methods of propagating horticultural plants by seed, cuttings, layering, grafting, division and tissue culture. Examination of relevant physiological processes involved with successful plant propagation techniques. Crosslisted with HORT 2160.

### AGRO 2996. Special Topics

#### 1-4 Credits (1-4)

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree. May be repeated up to 9 credits. Consent of Instructor required.

## **AHS-ALLIED HEALTH SCIENCE (AHS)**

### AHS 102. Careers in the Health Fields

#### 1-3 Credits (1-3)

This course will provide students with a broad understanding of health careers as well as emerging issues in health. This will also include the study of the functional roles of practice, education, administration, and research in health fields. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

# AHS 115. Dietary Guidelines & Meal Planning 4 Credits (4)

A combination of the science of nutrition and the current Dietary Guidelines for Americans with practical application to meal planning and preparation. Strategies and techniques used to plan and prepare healthful and appetizing meals are explored. Evidenced-based dietary guidelines are provided to meet the needs of individuals and groups with chronic diseases. Menu development, modification and analysis are reviewed. Restricted to Community Colleges campuses only.

# AHS 116. Math for Health Occupations 3 Credits (3)

Principles of math and pharmacology necessary for administration of medications. Restricted to: Community Colleges only.

Prerequisite(s): CCDM 114N or equivalent.

# AHS 120. Medical Terminology 3 Credits (3)

The study and understanding of medical terminology as it relates to diseases, their causes and effects, and the terminology used in various medical specialties. Emphasis will be placed on learning the basic construction of medical words, appropriate spelling, use of medical terms, and use of medical abbreviations. Same as HIT 150. May be repeated up to 3 credits. Crosslisted with: NURS 150, BOT 150 and HIT 150. Restricted to Community Colleges campuses only.

# AHS 140. Essentials of Anatomy and Physiology 4 Credits (3+3P)

Essentials of anatomy and physiology for those considering a career in health as well as those interested in understanding their own body and the basics of health.

# AHS 153. Introduction to Anatomy and Physiology I 4 Credits (3+3P)

Survey of human anatomy and physiology.

**Prerequisite:** high school biology or high school chemistry, or CHEM 1120G, or consent of instructor.

### AHS 155. Special Topics

#### 1-6 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 6 credits.

# AHS 190. Clinical Skills & Concepts for Medical Assisting I 6 Credits (3+6P)

A core course designed to provide an introduction to the theory, concepts, and skills needed for entry-level medical assisting positions. Content includes basic theory and concepts designed to support safe and effective practice as a medical assistant in ambulatory care settings. Includes a skills laboratory for hands-on practice and 96 hours of supervised clinical in the work environment. Restricted to Community Colleges campuses

# AHS 202. Legal and Ethical Issues in Health Care 3 Credits (3)

Consideration of legal and ethical issues in modern health care delivery.

# AHS 250. Spanish for Health Professionals 3 Credits (3)

Spanish for Health Professionals is a 3 credit course geared toward individuals working or majoring in health related areas. The course focus is on conversation and vocabulary needed for the workplace and task based practical skills. Restricted to: Community Colleges only.

# AHS 280. Medical Office Administration & Management 4 Credits (2+4P)

A core course designed to provide the theory, concepts, and skills needed in preparation for entry-level medical assisting positions. Content includes theory and concepts related to medical office administration. The course includes skills, hands-on practice, and 40 hours of supervised clinical in the work environment in ambulatory care settings. Restricted to Community Colleges campuses only.

# AHS 290. Clincial Skills & Concepts for Medical Assisting II 6 Credits (3+6P)

A core course designed to provide the theory, concepts, and skills needed in preparation for entry-level medical assisting positions. Content includes theory and concepts related to specialty areas of healthcare practice, as well as consideration for conditions affecting persons throughout the life span. The course includes a skills laboratory for hands-on practice and 96 hours of supervised clinical in the work environment with specialized populations and procedures in both ambulatory and acute care settings. Restricted to Community Colleges campuses

# **ANSC-ANIMAL SCIENCE (ANSC)**

### **ANSC 1110. Animal Science Careers**

### 1 Credit (1)

Introduction to scientific disciplines and career options in animalagriculture career skill development, including resume preparation, networking, importance of internships, and leadership experiences in animal agriculture.

# ANSC 1120. Introduction to Animal Science 3 Credits (3)

This course is designed to provide an introduction to nutrients and their function in livestock animals. Basic feed identification, evaluation, and diet formulation will be discussed. The anatomy of the digestive tract of animals and their ability to utilize feedstuffs is presented. Classification, digestion, absorption, transport and metabolism of major nutrients required by animals are studied

# ANSC 1120H. Introduction to Animal Science Honors 3 Credits (3)

This course is designed to provide an introduction to nutrients and their function in livestock animals. Basic feed identification, evaluation, and diet formulation will be discussed. The anatomy of the digestive tract of animals and their ability to utilize feedstuffs is presented. Classification, digestion, absorption, transport and metabolism of major nutrients required by animals are studied. Additional course work will be required. Restricted to Las Cruces campus only.

Prerequisite(s): Eligibility for membership in honors college.

# ANSC 1120L. Introduction to Animal Science Lab 1 Credit (2P)

Students will observe and participate in activities related to farm animal management and will include areas of livestock selection, nutrition, reproductive physiology, animal ID and animal health. This lab is required for animal science majors.

Prerequisite(s)/Corequisite(s): ANSC 1120.

### ANSC 1130. Westerrn Equitation I

2 Credits (4P)

Basic principles of Western riding, including care and management of the riding horse, equitation equipment, and development of riding skills.

# ANSC 1140. Introduction to Dairy Science 3 Credits (3)

Introduction to the basic aspects of dairy science and how to apply key concepts to the practical feeding and management of dairy cattle and production of dairy products. Students should also obtain an appreciation for the size and diversity of the dairy industry.

**Prerequisite(s)/Corequisite(s):** ANSC 1120. Restricted to Las Cruces campus only.

# ANSC 1160. Introductory Horse Science 3 Credits (2+2P)

The light horse industry; breeds; introduction to feeding, breeding, marketing and management; handling and selecting horses for breeding and performance.

# ANSC 1170. Introduction to Animal Metabolism 3 Credits (3)

Principles underlying the mechanisms of animal metabolism as they relate to production, maintenance, and health of animals.

Prerequisite: CHEM 1215G.

# ANSC 1180. Companion Animal in Society 3 Credits (3)

Examination of the historical, current, and potential future roles of companion animals in human society. Topics include animal domestication, breeds, exotic companion animals, the companion animal industry, and competitions and sports involving companion animals. Emphasis is on canine and feline species. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

### ANSC 2120. Equine Management

### 3 Credits (3)

Introduction and application of the business skills necessary to effectively manage the equine operation. Students will learn how to use strategic thinking and sound business management practices to succeed in the demanding equine industry.

Prerequisite: ANSC 1160.

### ANSC 2130. Western Equitation II

### 2 Credits (4P)

Intermediate principles of Western riding, including reading horse behavior, limbering-up exercises, and developing riding skills. Introduction to rollbacks, turnarounds and stops.

Prerequisite: consent of instructor.

# ANSC 2140. Introduction to Companion Animal Science 3 Credits (3)

Introduction to the care of common companion animal species. Species specific housing and nutrition are covered in the context of maximizing animal health and well-being and reducing disease. May be repeated up to 3 credits.

### ANSC 2150. Management of Equine Operations

### 3 Credits (3)

Introduction and application of business skills necessary to effectively manage the equine operation. Students will learn how to use strategic thinking and sound business management practices to succeed in the demanding equine industry.

Prerequisite(s): ANSC 1160.

# ANSC 2160. Team Competition in Animal Science 1-2 Credits

Training in team competition in the animal sciences. May be repeated up to 6 credits. Consent of Instructor required.

### ANSC 2310. Introduction to Meat Science

### 3 Credits (2+3P)

Fundamental aspects of the red meat industry. Lecture topics and laboratory exercises include the nutrient value of meat, meat preservation, meat safety, muscle structure and contraction, slaughter and processing of beef, lamb and pork, sausage manufacture, meat curing, meat cookery, and muscle and bone anatomy.

### **ANSC 2330. Animal Production**

### 3 Credits (2+2P)

Production and utilization of beef cattle, sheep, and swine; emphasis on feeding, breeding, management problems and marketing; selection of animals for breeding and market

### ANSC 2340. Genetics in Animal Science

### 3 Credits (3)

Introduction to genetics and inheritance relative to livestock production. Introduction to procedures for collection and use of performance information in livestock improvement programs.

Prerequisites: BIOL 2610G.

### ANSC 2996. Special Topics

### 1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree.

### **ANTH-ANTHROPOLOGY (ANTH)**

# ANTH 1115G. Introduction to Anthropology 3 Credits (3)

Anthropology is the systematic study of the humanity both past and present. The course introduces students to the four subfields of anthropology, which include archaeology, biological, linguistic and cultural anthropology. Students will learn about the concepts and methods that anthropologists use to study our species and gain a broader perspective on the human experience.

# ANTH 1135G. Introduction to Biological Anthropology 3 Credits (3)

This course provides a basic introduction to the broad field of biological anthropology. The research interests of biological anthropologists include the history and development of modern evolutionary biology, molecular and population genetics, modern primates, the primate and human fossil record, and modern human biological diversity.

# ANTH 1135L. Introduction to Biological Anthropology Lab 1 Credit (2P)

This laboratory course expand on the topics covered in lecture course and uses scientific methods and principles to examine evidence for the process of evolution, the nature of heredity, human evolutionary history and family tree relationships, primate ecology and behavior, and modern human diversity. Hands-on experience with fossil and skeletal material will be an important part of the learning process. Corequisite(s): ANTH 1135G

# ANTH 1136. Introduction to Historic Preservation 3 Credits (3)

Introduction to historic preservation, its history, goals, methods, legal basis, and economic importance. Explores public role in decision-making. Community Colleges only.

# ANTH 1137G. Human Ancestors 3 Credits (3)

Corequisite(s): ANTH 1135L.

Evolutionary history of the human species from its origin in the primate order, with primary emphasis on the evolution of humankind during the past three million years. Examination of the social lives of apes and consideration of similarities to and differences from them. Biological foundations of human behavior, emphasizing thought, movement, and interaction.

# ANTH 1140G. Introduction to Cultural Anthropology 3 Credits (3)

This is an introductory course that provides an overview of cultural anthropology as a subfield within the broader discipline of anthropology and as a research approach within the social sciences more generally. The course presents core concepts and methods of cultural anthropology that are used to understand the ways in which human beings organize and experience their lives through distinctive cultural practices. More specifically, this course explores social and cultural differences and similarities around the world through a variety of topics such as: language and communication, economics, ways of making a living, marriage and family, kinship and descent, race, ethnicity, political organization, supernatural beliefs, sex and gender, and globalization. This course ultimately aims to present a broad range of perspectives and practices of various cultural groups from across the globe.

# ANTH 1160G. World Archaeology 3 Credits (3)

This course is an exploration of human evolution and cultural development throughout the world. Students will be introduced to basic anthropological methods and theories and will learn how anthropological research has contributed to our understanding of major themes in human prehistory, including human evolution, the origins of culture, migration and colonization, animal and plant domestication, and the rise and fall of

# ANTH 2140G. Indigenous Peoples of North America 3 Credits (3)

This course is a general survey of the history and ethnology of indigenous groups in North America. The course is designed to give students a comprehensive view of major issues pertaining to the indigenous cultures of North America, such as family structure, social organization, subsistence and contemporary economies, environmental adaptation, Indian-White relations, religious practices, and contemporary issues.

# ANTH 2150. Indigenous Peoples of the American Southwest 3 Credits (3)

This course is a study of indigenous cultural groups of the American Southwest. Students will explore historical and contemporary cultural and social patterns of American Indian, Hispanic and Anglo-American groups.

### ANTH 2996. Special Topics

#### 1-4 Credits

civilizations.

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

### **ARCH-ARCHITECTURE**

### ARCH 1105. Orientation and Mentoring in Architecture-Construction-Engineering (ACE)

### 1-6 Credits (1-6)

This course is intended for high school dual credit students and college/university students wishing to explore careers in Architecture, Construction, and Engineering (ACE), which includes the specific fields of Architectural, Civil, Mechanical, Structural, Interior, Landscape, Sustainability, and Environmental. Students receive one-on-one mentoring, attend field trips, and engage in hands-on activities. May be repeated up to 6 credits. Restricted to Community Colleges campuses

# ARCH 1110. Architectural Drawing 4 Credits (2+4P)

This course is designed as an introduction to architectural drawing and design for students without prior experience in the fine arts. Students are guided through a series of spatial and analytical exercises that focus attention on not only how architects draw, but also the reasoning and processes embedded within the technique. Students are provided exposure to a wide range of interconnected architectural concepts and to manual and digital drawing, as well as modeling techniques for architectural and interior design. Students will learn how to represent composition, form, and space by orthographic drawing, paraline and perspective views, and freehand sketching. Three-dimensional model building techniques will also be introduced.

# ARCH 1112. Global Issues and Sustainability 3 Credits (3)

Introduction to global environmental issues (historic, present, and future), and the impact on tomorrow's design and construction professions. Issues will include, but shall not be limited to global warming, energy consumption, population, natural resource consumption, air and water quality, waste management, facilities operation management, politics, and facilities design & construction. The impact on the design and construction industry, including 'Green Building' and 'LEED Accreditation and Certification/Criteria' will also be addressed. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

# ARCH 1114. Introduction to Architectural Design 3 Credits (2+2P)

This course provides students who possess a basic background in architecture and architectural drawing with an introduction to architectural design. Students are guided through a series of spatial and analytical exercises that focus attention on two dimensional, three dimensional, and four dimensional design. This course will build on direct linkages to ARCH 1120 and ARCH 1110 to further students' exposure to interconnected architectural concepts of process, organizational strategies, and analysis of material methodology while utilizing abstract and practiced graphical architectural conventions. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): ARCH 1120 and ARCH 1110.

# ARCH 1120. Introduction to Architecture 3 Credits (2+2P)

This course provides students the tools and vocabulary to analyze, interpret and discuss the built environment from the social, historical, perceptual and technical determinants. Students are introduced to elements, principles, and theories of architecture through their social, historical, and technical determinants. The course seeks to lay a foundation in architectural studies, including introducing students to fundamental vocabulary and concepts.

# ARCH 1121. Computers in Architecture 3 Credits (2+2P)

Explore various software and photography techniques widely used in the architectural field. In addition to using industry standard CAD program as primary 2-d drafting tool, focus is to produce digital architectural models and renderings, presentation boards, and animations. Digital images will be produced and enhanced through basic techniques in photography and integration of various software. Both individual and group work will be required.

# ARCH 1122. Architectural Design Studio I 5 Credits (1+8P)

Enhancement of general graphic communication skills and introduction to fundamental design including exploration, development and defense of design concepts; structural order; 2D and 3D processes in manual and digital architectural graphic expression; model building; general communication and presentation techniques; and development of course portfolio. Course is Studio/critique-based with considerable amount of work/hours required. This course is designed to be taken during student's last year in the Pre-Architecture program at DACC. Consent of Instructor required. Restricted to Community Colleges only.

Prerequisite(s): Grade of B- or better in both ARCH 1120 and ARCH 1110.

# ARCH 1220. Architecture World History I 3 Credits (2+2P)

A survey of the development of world architecture from the ancient era to the advent of the enlightenment in Europe. Major emphasis is on the visual, intellectual, cultural and technological aspects of the ancient and indigenous cultures of the classical and pre-modern world. Community Colleges only. Restricted to Alamogordo, Dona Ana and Grants campuses.

# ARCH 1310. Introduction to Architecture, Engineering, & Construction 3 Credits (3)

Introduction to and exploration of careers in the fields of architecture, engineering, and construction. Specific fields to include: architecture, civil engineering, mechanical engineering, structural engineering, engineering technology, residential construction, commercial construction, geographical information systems (GIS), surveying, sustainable design, and green building Crosslisted with: DRFT 100.

# ARCH 2111. Architectural Delineation I 3 Credits (2+2P)

Introduction to visual literacy, architectural graphic communication, & basic analytical skills. Architectural concepts primarily explored through the application of technical drawing, descriptive geometry, & material manipulation; primarily black & white media. Use of digital tools and media as applicable. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

# ARCH 2113. Sustainable Design in Architecture 3 Credits (3)

This course provides students with hands-on opportunity to increase their awareness in, and respond to the issues of responsible environmentally friendly building design by engaging in an integrated design process combining 'Traditional Design Process' with 'Sustainable Environmental Design' strategies. Students will expand their awareness of global environmental impacts due to design and construction, and gain knowledge in the industry's leading design 'tool' LEED (Leadership in Energy and Environmental Design) green building design rating system. LEED strategies will be utilized in the design of individual projects apply LEED in practical, individual design development, and develop an integrated building model utilizing the concept of BIM (Building Information Modeling). Such project development will require learning a basic design process and specific sequence including conceptual design, schematic design, design development and BIM (utilizing a BIM software such as REVIT, or AutoCad Architecture). May be repeated up to 3 credits. Prerequisite(s): DRFT 109 or DRFT 165 or ARCH 2114.

# ARCH 2114. Construction Documents 3 Credits (2+2P)

Basic use of CAD to produce residential, commercial, and industrial architectural working drawings, including floor plans, sections, foundation plans and details, exterior and interior elevations, framing plans, and site plans. Use and application of building and zoning codes, typical construction methods and materials, and accessibility requirements. Basic 3-D modeling, AIA layering standards, sheet layout, and construction document coordination. Restricted to: Community Colleges only.

Prerequisite(s)/Corequisite(s): DRFT 109.

# ARCH 2115. Architecture Design Studio II 5 Credits (1+8P)

Advanced graphic communication, design, and 3D physical model representation. Focus on site analysis, programming and fundamental design issues of context, environment, program development and space planning, 2D and 3D design and presentation techniques. Course is 'Studio/critique-based' with considerable amount of outside work/hours required. This course is designed to be taken during student's last year in the Pre-Architecture program at DACC. Restricted to Alamogordo, Dona Ana and Grants campuses.

Prerequisite(s): Grade of C- or better in ARCH 1122.

### ARCH 2116. Architectural Delineation

3 Credits (2+2P)

Continuation of ARCH 2111 with an emphasis in color media.

Prerequisites: ARCH 2111.

### ARCH 2122. LEED Accreditation Exam Prep

3 Credits (3)

This course is intended for anyone in the construction or architectural design fields who is interested in learning more about green building and the LEED (Leadership in Energy and Environmental Design) strategies, and are also interested in learning about how to become LEED accredited. Overview of the LEED rating systems utilized in the design and operation of buildings, the various LEED building certifications, and accreditation requirements for professionals. Highlights include interpretation of the LEED Reference Guides, accepted strategies for meeting LEED certification, sample practice exams, integrated project delivery methods, and a practical approach to problem solving through the use of design problems. Restricted to Community Colleges only.

# ARCH 2124. Professional Development and Leadership-AIAS 1-3 Credits

As members and/or officers of student professional organizations, architecture students gain experience through undertaking leadership roles, participating in team building, and becoming involved in service to the community. Students can also gain actual work experience involving skills related to their field of study. Graded S/U.

# ARCH 2220. Architectural World History II 3 Credits (2+2P)

A survey of the development of world architecture from the enlightenment in Europe to the present. Community Colleges only. Restricted to Alamogordo, Dona Ana and Grants campuses.

Prerequisite(s): ARCH 1220 or consent of instructor.

# ARCH 2994. Portfolio Design in Architecture 3 Credits (3)

This course is intended for Pre-Architecture students in their last semester of the program. Students develop a comprehensive portfolio that compiles, organizes, and showcases their most accomplished coursework produced in Architecture courses at DACC, in preparation for application to a 4 yr. Architecture program. Skills and techniques in architectural photography, scanning, and design layout using graphic software. Restricted to Community Colleges only.

Corequisite(s): ARCT 2115.

### ARCH 2995. Cooperative Experience

### 1-6 Credits

Supervised cooperative work program. Student employed in approved occupation; supervised and evaluated by employer and instructor. Student meets weekly with instructor. Graded S/U.

Prerequisite: consent of instructor.

### **ARCH 2996. Special Topics**

#### 1-6 Credits

Topics subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

# **ART-ART (ART)**

# ART 125. Foundations in Art 3 Credits (2+4P)

The Foundations course will focus on a deceptively simple question. 'What is Contemporary Art, and how can we make it?' Through the exploration of basic visual design concepts, collaborative learning, and interdisciplinary studio production, this course will help us to discover what it means to be an artist in the 21st century. Restricted to Las Cruces campus only.

### **ARTH-ART HISTORY**

### ARTH 1115G. Orientation in Art

3 Credits (2+3P)

A multicultural examination of the principles and philosophies of the visual arts and the ideas expressed through them.

# ARTH 2110G. History of Art I 3 Credits (3)

This survey course explores the art and architecture of ancient prehistoric cultures through the end of the fourteenth century. While focused primarily on the art of the Western civilizations, this course will also provide insights into the works of other major cultures in order to provide alternate views of art and history. Emphasis will be placed on the relationship of artworks to political, social, spiritual, intellectual, and cultural movements that affect and are affected by their creation and development.

# ARTH 2120G. History of Art II 3 Credits (3)

This survey course will explore the architecture, sculpture, ceramics, paintings, drawings, and glass objects from the 14th century to the modern era. While focused primarily on the art of the Western civilizations, this course will also provide insights into the works of other major cultures in order to provide alternate views of art and history. Emphasis will be placed on the relationship of artworks to political, social, spiritual, intellectual, and cultural movements that affect and are affected by their creation and development. May be repeated up to 3 credits.

### **ARTS-ART STUDIO**

### ARTS 1145G. Visual Concepts

### 3 Credits (2+4P)

Visual Concepts is an introduction to the philosophies of art, visual thinking, and principles of visual organization. Designed to give students a broad view of aesthetic traditions, ideologies, and techniques basic to the creation and evaluation of art. Principles and concepts are taught in a common lecture and applied in parallel small studio sections. For non-art majors only.

### ARTS 1212. Color Theory

### 3 Credits (2+4P)

Various color theories as they relate to compositional organization. Required for art education majors.

### ARTS 1240. Design I

### 3 Credits (3)

This course introduces the fundamentals of two-dimensional design as it applies to fine art and commercial contexts. Emphasis will be on basic color theory, elements of dynamic composition, vocabulary of visual arts and design, and development of visual conceptual skills. Students will use a variety of materials and techniques. Restricted to Community Colleges campuses only.

### ARTS 1250. Design II

### 3 Credits (3)

This course introduces the basic formal (aesthetic), spatial, and physical aspects of 3-D form as they can be applied to sculptural and functional design. Techniques that explore structure, mass, volume, scale, surface, form, and function are covered, along with various media, which may include paper, wood, clay, and/or metal. Restricted to Community Colleges campuses only.

### **ARTS 1310. Introduction to Ceramics**

#### 3 Credits (2+4P)

This course introduces the technical processes and conceptual concerns of working with ceramic material. Various methods of forming functional and expressive works out of clay are explored. Methods used include handbuilding and throwing, basic clay bodies, slip and glaze, and atmospheric firing.

### ARTS 1320. Ceramics I

#### 3 Credits (2+4P)

An introduction to the medium of clay incorporating hand building and wheel throwing to introduce the student to both the sculptural and utilitarian uses of clay. The student will also be introduced to a variety of glazing and firing techniques

### ARTS 1410. Introduction to Photography

### 3 Credits (2+4P)

This course introduces the making of photographic images from a broad viewpoint to consider both as an art practice and as a cultural practice. The course covers technical information on camera use and functionality, composition and visual design, digital workflow and editing, professional functions of manipulating and enhancing images, and printing correctly and effectively. The historical aspects of photography are also covered. May be repeated up to 3 credits.

### ARTS 1520. Digital Media I

### 3 Credits (2+4P)

This course provides an introduction to two of Adobe's major software applications, Illustrator and Photoshop, which are essential in creating artwork, designing promotional materials, websites and more. Part of the course deals with creating a variety of documents using the major tools of each program, and gaining an understanding of the contemporary graphic design industry and basic elements and principles of design. Community Colleges only.

### ARTS 1610. Drawing I

### 3 Credits (2+4P)

This course introduces the basic principles, materials, and skills of observational drawing. Emphasis is placed on rendering a 3-D subject on a 2-D surface with visual accuracy. Other topics include historical and contemporary references as well as an investigation of linear perspective, line, value, shape, space & composition. May be repeated up to 3 credits.

### ARTS 1630. Painting I

### 3 Credits (2+4P)

This course introduces the tradition of painting as a medium for artistic expression. Students will investigate materials, tools, techniques, history and concepts of painting. Emphasis is placed on developing descriptive and perceptual skills, color theory, and composition. May be repeated up to 3 credits.

Prerequisite(s): ARTS 1610.

### ARTS 1710. Introduction to Printmaking

### 3 Credits (2+4P)

This course provides direct experience of exploring basic printmaking processes, including relief, intaglio, and monoprint processes, as well as the investigation of materials/media, tools, techniques, history, and concepts of printmaking. Emphasis is given to solving problems through thematic development while producing a portfolio of prints.

### ARTS 1711. Computer-Based Illustration

### 3 Credits (2+4P)

Introduction to the principles of computerized drawing and design. Using the basic concepts, drawing tools, and vocabulary of Adobe Illustrator. **Prerequisite:** ARTS 1610, ARTS 1240, or consent of instructor.

### **ARTS 1712. Digital Graphics**

### 3 Credits (2+4P)

Importing and exporting images and text into various desktop publishing formats. Exploring imaging, drawing, and page layout applications. Introduction to typography.

Prerequisite: ARTS 1520.

### ARTS 1713. Web Page Design

### 3 Credits (2+4P)

Introduction to the creation of well-designed and organized Web sites. Emphasis on building creative but functional user-friendly sites. Introduction to HTML, Flash, Java Script, and Web-authoring software. Community Colleges only.

Prerequisite: ARTS 1520.

# ARTS 1810. Jewelry and Small Metal Construction I 3 Credits (2+4P)

This course introduces the basic techniques, materials, and tools traditionally used in the creation of jewelry and/or small-scale sculptural objects.

### ARTS 2010. Portfolio Development

### 3 Credits (2+4P)

This course presents the practicalities of building an art career with emphasis on developing a professional portfolio through visual aids, resumes, statements, and presentations. It covers professional practices of the studio artist including self-promotion, contracts, research tools for exhibition venues and other art related opportunities.

Prerequisites: ARTS 1712, ARTS 2611, and ARTS 1520, or consent of instructor.

### ARTS 2355. Stained Glass

### 3 Credits (2+4P)

Instruction in the fundamental fabrication and design techniques for stained glass. Introduction to visual decision making skills, historical, and critical issues of the medium. Community Colleges only.

### ARTS 2410. Black & White Photography

### 3 Credits (2+2P)

This course introduces the fundamental techniques of black and white photography, which includes camera functions and use, exposure techniques and film processing, traditional darkroom printing, and presentation of work. Same as ARTS 1410.

### ARTS 2430. Photographic Portraiture

### 3 Credits (2+2P)

This course covers the study of professional photography that involves people, including studio and environmental portraits. Topics include studio and exterior lighting techniques, and selecting lighting equipment and supplies. Restricted to: Community Colleges only.

Prerequisite(s): ARTS 1410 or FDMA 1545.

### ARTS 2431. Introduction to Graphic Design 3 Credits (2+4P)

Introduction to the principles of visual communication and digital media, letterforms, typography and identity marks. Projects produced using conventional and digital tools.

### ARTS 2440. Photo Finishing & Presentation 2 Credits (1+2P)

Use of visual language for personal expression. Freelance photography; care of original photos; preparation of portfolios, photographic markets, exhibitions and judging, galleries and copyrights. Students will prepare a photographic portfolio. Restricted to: Community Colleges only. Prerequisite(s): FDMA 1545.

### ARTS 2610. Drawing II

### 3 Credits (2+4P)

This course introduces color and colored media as an element of composition while emphasizing descriptive and perceptual drawing skills and conceptual approaches to contemporary drawing. Restricted to ART and ANVE/DFM majors.

Prerequisite(s): ARTS 1610.

### ARTS 2611. Advanced Computer-Base Illustration 3 Credits (2+4P)

Design custom graphics and create special effects with filtering, special effects on type, graphing, technical illustrations, and three-dimensional drawing using Adobe Illustrator.

Prerequisites: ARTS 1212, ARTS 1711, and ARTS 1520, or consent of instructor.

### ARTS 2616. Aspects of Drawing

### 2-3 Credits

Continued work in drawing with emphasis on personal creative endeavor. Community Colleges only.

Prerequisites: ARTS 1610 and ARTS 2610.

### ARTS 2630. Painting II

### 3 Credits (2+4P)

This course focuses on the expressive and conceptual aspects of painting, building on the observational, compositional, technical, and critical skills gained previously. Students will investigate a variety of approaches to subject matter, materials, and creative processes through in-class projects, related out-of-class assignments, library research or museum/gallery attendance, written responses, and critiques. Prerequisite(s): ARTS 1610 and ARTS 1630

### ARTS 2635. Painting III

### 2-3 Credits

Continuation of ARTS 2630.

Prerequisites: ARTS 1610, ART 1240 (for art majors), ART 1630, or consent of instructor.

### ARTS 2671. Writing in Art

### 3 Credits (3)

This reading- and writing-intensive course will introduce students to various approaches of writing about historical art.

### ARTS 2839. Introduction to Sculpture

### 3 Credits (2+4P)

Beginning sculpture students "explore space" while learning new processes and skills, including mold making, welding and woodworking.

### ARTS 2993. Art Workshop

#### 0.5 Credits (.5)

Required for all freshman and sophomore Art majors for four semesters, this workshop is designed to build professional student cohorts within the Department of Art; incorporate visiting artist and scholar lectures into the curriculum; and actively involve students in exhibitions and gallery and departmental events. May be repeated up to 4 credits. Crosslisted with: ARTS 308. Restricted to: BA Studio Art, BA Art History BFA Studio Art, BFA Museum Conservation majors. Restricted to Las Cruces campus

### ARTS 2996. Special Topics in Studio

#### 1-3 Credits

Specific subjects and credits to be announced in the Schedule of Classes. No more than 9 credits toward a degree.

Prerequisite: consent of instructor.

# **ASTR-ASTRONOMY (ASTR)**

### ASTR 1115G. Introduction Astro (lec+lab)

# 4 Credits (3+2P)

This course surveys observations, theories, and methods of modern astronomy. The course is predominantly for non-science majors, aiming to provide a conceptual understanding of the universe and the basic physics that governs it. Due to the broad coverage of this course, the specific topics and concepts treated may vary. Commonly presented subjects include the general movements of the sky and history of astronomy, followed by an introduction to basic physics concepts like Newton's and Kepler's laws of motion. The course may also provide modern details and facts about celestial bodies in our solar system, as well as differentiation between them - Terrestrial and Jovian planets, exoplanets, the practical meaning of "dwarf planets", asteroids, comets, and Kuiper Belt and Trans-Neptunian Objects. Beyond this we may study stars and galaxies, star clusters, nebulae, black holes, and clusters of galaxies. Finally, we may study cosmology-the structure and history of the universe. The lab component of this course includes hands-on exercises that work to reinforce concepts covered in the lecture, and may include additional components that introduce students to the night sky.

### ASTR 1116. Introduction to Astronomy Lab, Special 1 Credit (1)

This lab-only listing exists only for students who may have transferred to NMSU having taken a lecture-only introductory astronomy class, to allow them to complete the lab requirement to fulfill the general education requirement. Consent of Instructor required., at some other institution). Restricted to Las Cruces campus only.

Prerequisite(s): Must have passed Introduction to Astronomy lectureonly.

### ASTR 1120G. The Planets

### 4 Credits (3+2P)

Comparative study of the planets, moons, comets, and asteroids which comprise the solar system. Emphasis on geological and physical processes which shape the surfaces and atmospheres of the planets. Laboratory exercises include analysis of images returned by spacecraft. Intended for non-science majors, but some basic math required.

# **AUTO-AUTOMOTIVE TECHNOLOGY** (AUTO)

### **AUTO 102. Electrical Measuring Instruments**

### 2 Credits (1+2P)

Selection, operation, and care of electrical measuring instruments.

### **AUTO 111. Automotive Mechanics Basics**

### 4 Credits (4)

Basic maintenance procedures of the major components of the automobile using service repair manuals, hand and power tools, precision measurement equipment, fasteners and chemicals. Restricted to: Community Colleges only.

### **AUTO 112. Basic Gasoline Engines**

### 5 Credits (2+6P)

Principles of gasoline engine operation. Identification, design, function of engine components; engine disassembly and reassembly; trouble shooting, and rebuilding heads.

# AUTO 113. Automotive Electricity and Electronics PT I 4 Credits (2+4P)

Topics include mastery of DC electricity, use of digital multimeters, troubleshooting electrical problems in starting, charging and accessory systems. Restricted to Community Colleges only.

# AUTO 114. Automotive Electricity and Electronics PT II 4 Credits (2+4P)

Advanced AC and DC automotive electronic circuits. Troubleshooting electronically controlled components including supplemental restraint systems and convenience accessories. May be repeated up to 4 credits. **Prerequisite(s)/Corequisite(s):** AUTO 113. Restricted to Community Colleges campuses only.

### AUTO 115. Automotive Engine Repair

### 5 Credits (2+6P)

Principles of gasoline engine operation. Identification of engine parts, operation, and function. Disassembly and reassembly. Engine problem diagnoses (cooling system, lubrication system, engine noises). Restricted to Community Colleges only.

# AUTO 117. Electronic Analysis and Tune-Up of Gasoline Engines 5 Credits (2+6P)

Theory and operation of ignition and emission control systems and fuel system. Use of troubleshooting equipment and diagnostic equipment. **Prerequisite:** AUTO 120 or consent of instructor.

### AUTO 119. Manual Transmission/Clutch

### 5 Credits (2+6P)

Manual transmission, transfer cases, and clutch operating principles. Students will diagnose problems, remove and replace, disassemble, repair, and assemble units.

### **AUTO 120. Electrical Systems**

### 4 Credits (2+4P)

Troubleshooting and repair of starters, alternators, and associated circuits. Reading electrical diagrams, diagnosis and repair of electrical accessories.

Prerequisite: consent of instructor.

### **AUTO 122. Automotive Brakes**

### 4 Credits (2+4P)

Focus is on theory, diagnosis, and service of drum, disc, and anti-lock braking systems, brake component machining, hydraulic component reconditioning, friction and hardware replacement. Restricted to Community Colleges only.

# AUTO 124. Automotive Heating and Air Conditioning 4 Credits (2+4P)

R12 and R134A air conditioning systems maintenance diagnosis and repair. R12 to R134A conversion procedures. Troubleshooting automatic temperature controls and leak detection. Restricted to Community Colleges only.

### AUTO 125. Brakes

#### 5 Credits (2+6P)

Theory of operation, diagnosis, repair, and maintenance of disc and drum brakes; safety and use of special tools.

### AUTO 126. Suspension, Steering, and Alignment

#### 5 Credits (2+6P)

Types of steering systems, suspension maintenance and repair, fourwheel alignment procedures.

### **AUTO 127. Basic Automatic Transmission**

### 4 Credits (2+4P)

Theory and operation of the automatic transmission; maintenance, troubleshooting, diagnosis, and repair of components.

# AUTO 129. Automotive Steering and Suspension 4 Credits (2+4P)

Diagnosis/service of suspension components including shocks, springs, ball joints, manual and power steering systems and four wheel alignment are some areas covered. Restricted to Community Colleges only.

# AUTO 130. Introduction to Transportation Industry 3 Credits (3)

State and national traffic statutes that relate to the trucking industry. A Commercial Driver's License Learner's Permit will be obtained through successful completion of the course.

**Prerequisites:** Must be 18 years of age, have a current driver's license and consent of instructor.

### AUTO 131. Class A CDL

### 3 Credits (1+4P)

Instruction in how to perform proper pre-trip inspection; hands-on training with a tractor-trailer unit on the backing range and street driving to develop skills necessary to pass Class A DCL exam. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Class A CDL restricted license (permit) and either restriction of D.O.T.

# AUTO 132. Automotive Air-Conditioning and Heating Systems 4 Credits (2+4P)

Theory and operation, reading schematic diagrams, troubleshooting, repair, and replacement operations performed.

# AUTO 137. Fuel Systems and Emission Controls 4 Credits (2+4P)

Covers theory and operation of fuel system and emission control. Troubleshooting, vacuum diagrams, overhaul, repair and adjustment of carburetion and fuel injection.

Prerequisites: AUTO 117 or consent of instructor.

### **AUTO 139. Automotive Computer Controls**

### 4 Credits (2+4P)

Same as OEPM 139.

### AUTO 162. Advanced Non-Structural Repair I

### 4 Credits (2+4P)

This course will involve the students in all phases of minor non-structural collision damage repairs. It will encompass sheet metal repair, advanced panel replacement and alignment.

Prerequisite(s): AUTO 161.

# AUTO 163. Advanced Non-Structural Repair II 4 Credits (2+4P)

This course is a continuation of AUTO 162 with emphasis in all phases of minor non-structural damage repair. The student will be instructed in sheet metal repair and panel alignment as well as the R&I of automotive glass and related components.

Prerequisite(s): AUTO 162.

### AUTO 164. Automotive Industry Collision Repair I 4 Credits (2+4P)

This advanced course is a continuation of AUTO 161, 162, and 163. This course will incorporate all areas of major non-structural collision damage repair. Through practical application the student will learn how to effectively repair all heavy collision damage using current I-CAR repair standards and procedures.

Prerequisite(s): AUTO 163.

### AUTO 165. Automotive Industry Collision Repair II 4 Credits (2+4P)

This advanced course is a continuation of AUTO 164 with emplasis on time efficiency. This course will involve the student in all areas of major collision damage repair. The student will be exposed to all applicable I-CAR industry procedures and standards involved in sheet metal and composite panel repair.

Prerequisite(s): AUTO 164.

# AUTO 172. Introduction to Automotive Refinishing 4 Credits (2+4P)

This course is designed to incorporate all aspects of surface preparation, paint safety, refinishing materials, and refinishing fundamentals. Students will receive instructions for the application of acrylic enamel and base coat/clear coat refinishing systems.

# AUTO 174. Intermediate Automotive Refinishing 4 Credits (2+4P)

This course encompasses all areas of surface preparation, damage repair and refinishing procedures that are necessary for achieving a proper spot repair. Students will also be exposed to safe work habits in the refinishing area and correct automotive detailing procedures.

Prerequisite(s): AUTO 172.

# AUTO 176. Automotive Color Adjustment & Blending 4 Credits (2+4P)

This course will help develop the skills needed to match any type of paint. It will expose the student to color theory, color evaluation, color matching, and other color adjustment factors. The student will be instructed in multiple panel paint blending techniques as well.

Prerequisite(s): AUTO 174.

# AUTO 178. Automotive Overall Refinishing 4 Credits (2+4P)

This course encompasses all areas of automotive refinishing. This advanced course is a continuation of AUTO 176 with emphasis in achieving industry refinishing times and standards consistent with that of I-CAR. The student will be exposed to surface preparation and refinishing techniques involved with overall coat/clear coat refinishing system.

Prerequisite(s): AUTO 176.

# AUTO 181. Frame and Structural Repair 4 Credits (2+4P)

This course will involve the student in all areas of frame and structural damage repairs. Through theory and practical application, the student will learn how to diagnose and repair various types of damage include: mash, twist, sag, and side sway. This course will expose the students to safe work habits while using measuring and straightening equipment.

Prerequisite(s): AUTO 165.

# AUTO 182. Structural Panel Replacement 4 Credits (2+4P)

This course is a continuation of AUTO 181 with infancies in structural panel replacement. The student will be exposed to frame and unibody measuring equipment and their proper use in sectioning procedures. Through theory and practical application the student will learn how to ID structural components, properly separate spot welds, position and weld new body panels in place.

Prerequisite(s): AUTO 181.

### AUTO 201. Engine Performance I

### 4 Credits (2+4P)

Theory, function, service and analysis of engine related subsystems including ignition, fuel, starting, and charging systems. Emphasis is placed on diagnosis and operation of electronic engine control management systems. Restricted to Community Colleges only.

### AUTO 203. Engine Performance II

### 4 Credits (2+4P)

Study of engine management systems and emission control systems, their function and relationship to vehicle performance and air pollution. Emphasis is placed on the analysis and repair of non-compliant vehicles. Restricted to Community Colleges only.

# AUTO 204. Engine Performance III 4 Credits (2+4P)

Study of advanced level diagnostic test procedures and the equipment used to analyze OBD-II emission and drivability concerns. Use of Digital Storage Oscilloscopes, current ramping, Scan Tool analysis of 4 and 5 gas analyzers is mastered. Hybrid vehicles and the latest engine control systems are introduced. Restricted to Community Colleges only.

# AUTO 205. Manual Drive Train and Axles 4 Credits (2+4P)

Operation, diagnosis, maintenance, repair or replacement of manual transmissions, clutch assemblies, differentials, drivelines, axles, and manual transaxles. Restricted to Community Colleges only.

# AUTO 206. Automatic Transmissions 5 Credits (2+6P)

Operation, diagnosis, maintenance, and repair of automatic transmissions including rear wheel drive, front wheel drive, and electronically controlled transmissions and transaxles. Restricted to Community Colleges only.

# AUTO 208. Introduction to Alternative Fueled Vehicles 3 Credits (3)

Course will familiarize student with conditions that are resulting in the alternative fueled vehicle movement as well as the design and safety precautions unique to each alternative fuel. Propulsion systems covered include electric vehicles, bio-fueled vehicles, hybrid-electric vehicles and hydrogen powered vehicles, along with other emerging technologies as appropriate. Restricted to: Community Colleges only.

Prerequisite(s): AUTO 113 and AUTO 114.

# AUTO 209. Hybrid Vehicle Service Techniques 3 Credits (3)

Designed for experienced automotive technicians, this course will cover safety procedures, design, operational overview and service techniques as well as minor diagnosis and repair of all classifications of hybrid-electric vehicles. Each student must possess legal Class '0' high voltage gloves and liners to attend this class. Restricted to: Community Colleges only

Prerequisite(s): AUTO 113 and AUTO 114.

### **AUTO 221. Cooperative Experience I**

#### 1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

# AUTO 255. Special Problems in Automotive Technology 1-5 Credits

Individual studies in areas directly related to automotive technologies. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

### **AUTO 290. ASE Certification Preparation**

### 1 Credit (1)

This is the capstone course for the Automotive Technology Program and is a requirement for graduation. Consent of Instructor required. Restricted to: AUTO majors. Restricted to Community Colleges campuses

### **AUTO 295. Special Topics**

#### 1-6 Credits

Topics to be announced in the Schedule of Classes.

### **AVIM - AVIATION MAINTENANCE**

### **AVIM 101. Aviation Science**

#### 3 Credits (3)

Provides students with basic technical mathematics skills, an overview of general physics as applied to the work of an Airframe and Powerplant (A&P) technician, and instruction in the reading and interpreting of aircraft drawings. Restricted to Alamogordo campus only.

Prerequisite(s): Appropriate Math placement score.

AVIM 102. Shop Practices

### 3 Credits (3)

Introduces students to specialty tools, shop safety, workplace practices, basic aviation materials and processes. Students also learn to fabricate fluid lines and fittings, identify type fasteners, and processes for nondestructive testing. Restricted to Alamogordo campus only.

### **AVIM 103. Ground Operations**

### 3 Credits (3)

Identifies aircraft fuels, cleaning procedures and corrosion removal, as well as ground operation procedures including safety, fueling, and start-up of aircraft. Restricted to Alamogordo campus only.

### **AVIM 104. Federal Regulations**

### 2 Credits (2)

Instruction on how to read, comprehend, and apply all FAA maintenance forms and publications as related to aircraft maintenance. Also describes all rights and privileges of A & P technicians. Restricted to Alamogordo campus only.

### **AVIM 105. Weight and Balance**

### 2 Credits (2)

Describes proper procedures for weighing and loading aircraft and center of gravity (C.G.) safety and procedures for jacking aircraft. Restricted to Alamogordo campus only.

### **AVIM 106. Basic Electricity**

### 3 Credits (3)

Explains theories and principles of electricity related to aircraft circuitry. Restricted to Alamogordo campus only.

# **AXED-AGRICULTURAL EXTN EDUC** (AXED)

### AXED 1110. Introduction to Agricultural, Extension, and Technology Education

### 3 Credits (3)

Orientation to programs, philosophies, competencies and leadership skills needed by professionals in agricultural and technology education, extension education, agricultural communications, and related career opportunities in industry, governmental agencies, and international organizations.

# AXED 1130. Techniques in Agricultural Mechanization 3 Credits (2+2P)

Development of competencies in agricultural mechanics including safety, tool identification, operation and maintenance of hand and power tools, cold metal, drafting, and plumbing procedures. Designed for any major wishing to improve mechanical skills needed in agriculturally related occupations in education and industry.

### **AXED 2110. Metal Fabrication**

### 3 Credits (2+4P)

Instruction and skill development in process and procedures of metal fusion, including gas and electric welding techniques, safety, and oxyacetylene cutting and welding. Designed to improve mechanical skills needed in agriculturally related occupations in education and industry.

# AXED 2120G. Effective Leadership and Communication in Agriculture 3 Credits (2+2P)

Theory and practice in leadership and communication for professionals who must work effectively in leadership and supervisory roles with people in agricultural business, industry, government agencies, and education. Course focuses on contemporary leadership theories. Oral communication skills in informative and persuasive speaking, parliamentary procedure, and for small groups are developed.

# AXED 2130. Early Field-Based Experience 2 Credits (2)

First Hand view of the roles of professional educators through field experiences with Cooperative Extension or other government agencies. Includes 4 weeks of classroom instruction and 30 hours of observation in a work setting. Consent of Instructor required. Restricted to Las Cruces campus only.

### AXED 2140. Early Field-Based Experience in Agricultural and Technology Education

### 2 Credits (2)

First-hand view of the roles of professional educators through field experiences in a secondary agricultural or technology education setting. Includes 4 weeks of classroom instruction and 30 hours of observations in a classroom setting. Consent of Instructor required.

### **AXED 2996. Special Topics**

### 1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 6 credits toward degree.

# B A-BUSINESS ADMINISTRATION (B A)

### **B A 104. Introduction to Business**

### 3 Credits (3)

Survey and integration of functions in business organizations within their social and economic environment. Community Colleges only.

### B A 105. Special Topics

### 1-3 Credits

Current topics in business and economics.

### B A 202. Small Business Enterprise

### 3 Credits (3)

Appraisal of business functions within the framework of a small business organization.

# B A 291. Business Administration and Economics Internship and Cooperative Education I

#### 1-3 Credits

Introduction and applications of the principles of business administration and economics. Registration in one course allowed per co-op work phase; a minimum of 12 work weeks is required. Open only to students in the College of Business. Option of S/U or a grade. The amount of academic credit (1-3 cr.) will be determined by the academic experience, and not by the work experience.

## **BCHE-BIOCHEMISTRY (BCHE)**

### **BCHE 140. Introduction to Biochemistry**

### 1 Credit (1)

A description of the nature of inquiry in biochemistry, especially with respect to the interaction of chemistry and biology. Both historical development and topics of current interest will be discussed. Graded S/U.

### BCHE 241. Introduction to Research in Biochemistry

### 1-3 Credits

Techniques and procedures of biochemical research. May be repeated for a maximum of 3 credits.

Prerequisites: 8 credits of chemistry and 3.0 GPA in chemistry.

# BCIS-BUSINESS COMPUTER SYSTEMS (BCIS)

# BCIS 1110. Introduction to Information Systems 3 Credits (3)

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communications, data analysis, information management and decision-making.

# BCT-BUILDING CONSTRUCTION TECH (BCT)

### BCT 100. Building Trades I 8 Credits (2+12P)

Equipment and general safety. Human relations, building construction surveying, footings, foundation form work, framing, sheathing, insulation. Basic electrical wiring and plumbing. Classroom instruction, on- the-job training, and problem solving.

### BCT 101. Introduction to Construction I

### 2 Credits (2+1P)

Basic safety, including personal protective equipment, how to perform basic construction tasks safely, and what to do if an accident occurs. Includes basic construction methods. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 102;BCT 103.

### **BCT 102. Introduction to Construction II**

#### 2 Credits (2+1P)

Introduction to power and hand tools, blueprints, and basic rigging hardware and techniques. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 101;BCT 103.

# BCT 103. Introduction to Construction Laboratory 3 Credits (3)

Provides students the opportunity to practice skills they have acquired in BCT 101 and BCT 102. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 101; BCT 102.

### BCT 104. Woodworking Skills I

### 3 Credits (1+4P)

Use and care of hand tools and elementary power tools, safety procedures, and supervised project construction.

### BCT 105. Woodworking Skills II

### 3 Credits (1+4P)

Advanced woodworking skills to include use of advanced power tools, power tool safety, and supervised construction.

Prerequisite: BCT 104 or consent of instructor.

### BCT 106. Woodworking Theory and Practice

### 3 Credits (2+2P)

History of wood manufacturing, industrial techniques, wood characteristics, stains and finishes. Design and construction of minor wood projects.

### BCT 107. Painting I

### 4 Credits (2+4P)

Types and applications of paints and clear coatings. Use of fasteners, caulks, and sealants. Restricted to: Community Colleges only.

### BCT 109. Plumbing I

### 3 Credits (2+3P)

Covers orientation to the trade. Students will learn about materials used in the plumbing industry and the different types of plumbing fixtures. It includes task-oriented projects in which the students apply many of the skills and knowledge that are presented through the National Center for Construction and Education Research (NCCER) Plumbing Program. May be repeated up to 3 credits.

**Prerequisite(s)/Corequisite(s):** BCT 101, BCT 102. Restricted to Community Colleges campuses only.

# BCT 110. Blueprint Reading for Building Trades 4 Credits (2+4P)

Same as DRFT 151, OEET 101, OEPB 110.

# BCT 111. Small Equipment Maintenance and Repair 4 Credits (2+4P)

Covers small engine theory, troubleshooting and repair, auto maintenance, hydraulic theory and repair lubricants, batteries and scheduled tool maintenance. Restricted to: Community Colleges only.

### **BCT 114. Basic Carpentry**

### 3 Credits (1+4P)

Covers orientation to the trade; wood building materials, fasteners, and adhesives; detailed description and explanations of hand-operated and power tools, including safety; framing basics including laying out and constructing of wood floors, walls and ceilings and includes roughing in of door and window openings. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 115; BCT 116.

### BCT 115. Carpentry Level I

### 3 Credits (1+4P)

Describes the various kinds of roofs and provides instructions for lay out of the different roofing systems. Describes the various types of windows, skylights, and exterior doors and provides instruction for installation. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114; BCT 116.

### BCT 116. Basic Carpentry Lab

### 2 Credits (2)

Provides students the opportunity to practice skills they have acquired in BCT 114 and BCT 115. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114; BCT 115.

### BCT 117. Plumbing 1A

### 3 Credits (2+2P)

This course will introduce students to the plumbing profession. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field. Restricted to Community Colleges campuses only.

### **BCT 118. Math for Building Trades**

### 3 Credits (3)

Geometry, algebra, arithmetic, and basic trigonometry pertaining to mathematical applications in the building trades field. Same as OEET 118, DRFT 118, OEPB 118.

Prerequisite: CCDM 103 N.

### BCT 123. Residential Wiring I

### 3 Credits (2+3P)

Introduction to residential electrical wiring trade, electrical safety practices, basic electrical circuits and theory, reading and interpreting applicable construction prints/drawings, introduction to basic National Electric Code (NEC), and preparation for entry-level employment in residential electrical wiring. Restricted to Community Colleges campuses only.

# BCT 130. Professional Development and Leadership 1 Credit (1)

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing or participating in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: BCT majors. Graded: S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

### **BCT 150. Forklift Operation**

### 1 Credit (1)

Classroom instruction and hands-on practice to prepare students to operate a forklift safely in the workplace. Students will have the opportunity to earn a forklift operator's permit. Consent of Instructor required. Restricted to Community Colleges campuses only.

### BCT 200. Building Trades II

### 8 Credits (2+12P)

Continuation of BCT 100: roofing; exterior and interior finish; masonry; door, window, and cabinet installation.

### BCT 206. Advanced Cabinetmaking

### 3 Credits (1+3P)

Advanced cabinetmaking skills, to include expert use of hand and power tools, professional construction and finishing techniques.

Prerequisites: BCT 105, BCT 106, or consent of instructor.

### BCT 209. Plumbing II

### 3 Credits (2+3P)

Continuation of BCT 109. Provides students the opportunity to gain more practice in the skills and knowledge learned in Plumbing I. Students will install fixtures and run the various plumbing supply lines from Plumbing Level I. The course included hands on projects in which the students apply many of the competencies that have been presented through the National Center for Construction and Education Research (NCCER) Plumbing Program. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): BCT 109.

### BCT 217. Building and the Environment

### 3 Credits (3)

Introduction to LEED's, and Green Building Fundamentals, sustainability, sustainable design and green building evaluating cost implication of green building. Describes site development; managing site water runoff, improving a project's water use efficiency. Discusses renewable energy sources, and introduces student to generating power on-site using renewable energy sources, improving a building's indoor environment quality, improving the building industries' environmental performance and environmental aspects of building maintenance, re-use and conservation.Restricted to: Community Colleges only.

### BCT 218. Plumbing 2

### 4 Credits (2+4P)

This course builds on the skills and knowledge students have gained in previous BCT introduction to plumbing courses, focusing on installation of plumbing systems. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field.

Prerequisite(s): BCT 117 and BCT 119.

### BCT 219. Weatherization in Construction

### 3 Credits (2+2P)

Introduction to industry weatherization standards and practices utilized in the construction of buildings for the purpose of energy conservation. Economic and environmental impacts of the use of energy in heating and cooling building will be examined.

Prerequisite(s): BCT 101, BCT 102 and BCT 103.

### BCT 221. Cooperative Experience I

### 1-4 Credits

Supervised cooperative work program. Student is employed in an approved occupation and is supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

### **BCT 223. Residential Wiring II**

### 3 Credits (2+3P)

Introduction to electrical raceways and fittings; electrical conductors and cables; basic electrical construction drawings, residential electrical services, and electrical test equipment. Restricted to Community Colleges campuses only.

Prerequisite(s): BCT 123.

### **BCT 255. Special Topics**

#### 1-6 Credits (1-6)

Topics to be announced in the Schedule of Classes. May be repeated up to 12 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

### BCT 290. Special Problems in Building Technology

#### 1-4 Credits

Individual studies in areas directly related to building technologies. **Prerequisite:** consent of instructor.

### **BFIN-BUSINESS FINANCE**

### BFIN 2110. Introduction to Finance

#### 3 Credits (3)

Introduces tools and techniques of financial management. Includes time value of money; financial planning, diversification and risk; debt and equity investment decisions; and financial statement analysis.

Prerequisite(s): OATS 106 or higher; OATS 120 or ACCT 2110;

ECON 1110G or ECON 2110G.

## **BIOL-BIOLOGY (BIOL)**

### **BIOL 1120G. Human Biology**

### 3 Credits (3)

This course is an introduction to modern biological concepts with an emphasis on the relevance to humans and their relationships with the environment.

### BIOL 1120L. Human Biology Laboratory

### 1 Credit (3P)

This course introduces exercises, experiences, and activities exploring biological concepts and theories relevant to humans and their relationship to the environment in a laboratory setting.

Prerequisite(s)/Corequisite(s): BIOL 1120G.

# BIOL 1130G. Introductory Anatomy & Physiology (non-majors) 4 Credits (3+3P)

This course introduces the anatomy (structure) and physiology (function) of the human body, which includes the study of basic chemistry, molecules, cells, tissues, organs, organ systems, and terminology related to these concepts. May be repeated up to 4 credits. Restricted to Community Colleges campuses

# BIOL 1190G. Contemporary Problems in Biology 4 Credits (3+3P)

Fundamental concepts of biology will be presented using examples from relevant problems in ecology, medicine and genetics. For nonscience majors only. Community Colleges only.

### **BIOL 1996. Topics in Biology**

### 1-3 Credits (1-3)

Introductory level coverage of biological topics. May be repeated up to 9 credits.

# BIOL 2110G. Principles of Biology: Cellular and Molecular Biology 3 Credits (3)

This course introduces students to major topics in general biology. This courses focuses on the principles of structure and function of living things at the molecular, cellular and organismic levels of organization. Major topics included are introduction to the scientific process, chemistry of cells, organization of cells, cellular respiration, photosynthesis, cell division, DNA replication, transcription, and translation. Must be taken with BIOL 2110L to meet general education requirements. May be repeated up to 3 credits.

**Prerequisite(s):** a C- or better in MATH 1215 or higher and a C- or better in CHEM 1120G or CHEM 1215G or CHEM 1216.

### BIOL 2110L. Principles of Biology: Cellular and Molecular Biology Laboratory

### 1 Credit (3P)

This course introduces students to major topics in general biology. This courses focuses on the principles of structure and function of living things at the molecular, cellular and organismic levels of organization. Major topics included are introduction to the scientific process, chemistry of cells, organization of cells, cellular respiration, photosynthesis, cell division, genetics, DNA replication, transcription, and translation. May be repeated up to 1 credits.

Prerequisite/Corequisite(s): BIOL 2110G; Prerequisite(s): MATH 1215 or higher, and a C- or better in CHEM 1120G or CHEM 1215G or CHEM 1216.

# BIOL 2210. Human Anatomy and Physiology I for the Health Sciences 4 Credits (3+3P)

This course is the first of two that serve as an introduction to human anatomy and physiology for biology majors and allied health students. The course entails describing, explaining, and analyzing structure and function from the submicroscopic to the organismal level with emphasis on anatomic, directional, and sectional terminology, basic cellular structure and metabolism, tissue differentiation and characteristics, and organ system structure and function; Specifically the integumentary, skeletal, muscular, and nervous systems.

Prerequisite(s)/Corequisite(s): CHEM 1120G or CHEM 1215G. Restricted to: Community Colleges only.

### **BIOL 2221. Human Physiology**

### 3 Credits (3)

Physical and chemical operation of the organs and systems of the human body. Not open to students who have passed BIOL 354 or BIOL 381.

Prerequisite(s): Grade of at least C- in BIOL 2110G; BIOL 2110L;

CHEM 1215G or CHEM 1120G.

# BIOL 2225. Human Anatomy and Physiology II 4 Credits (3+3P)

This course is the second of two that serve as an introduction to human anatomy and physiology for biology majors and allied health students. The course entails describing, explaining, and analyzing structure and function from the submicroscopic to the organismal level with emphasis on specific cellular, tissue, and organ structure and physiology, and organ system structure and function; specifically the endocrine, cardiovascular, respiratory, urinary, and reproductive systems. Additionally, an analysis of these concepts is included: fluid and electrolyte balance, pregnancy, growth and development from zygote to newborn, and heredity. Restricted to: Community Colleges only.

Prerequisite(s): BIOL 2210, CHEM 1120G or CHEM 1215G.

### **BIOL 2310. Microbiology**

### 3 Credits (3P)

Introduction to the basic principles of microbiology, microbial pathogenesis, host defenses and infectious diseases. The course will emphasize concepts related to the structure and function of microorganisms, including their mechanisms of metabolism and growth. Host parasite interactions will also be emphasized, including mechanisms of microbial pathogenesis and mechanisms of host defenses against infectious diseases. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEM 1120G or CHEM 1215G or CHEM 1225G. Corequisite(s): BIOL 2310L.

### BIOL 2310L. Microbiology Lab

### 1 Credit (3P)

This course will emphasize both the theory and hands-on application of techniques used in a microbiology laboratory for the growth and identification of bacterial species. Students will learn microscopy skills and staining techniques for the observation of bacteria. Students will also learn aseptic techniques used for isolation of bacteria, inoculation of cultures, and interpretation of selective and differential growth media for the identification of bacterial species.

Prerequisite: BIOL 2310 or BIOL 2320 or concurrent enrollment.

### **BIOL 2320. Public Health Microbiology**

### 3 Credits (3)

This course introduces microbiology on the health profession level. It incorporates cell structure, metabolism, growth, controls of growth, infectious epidemiology, etiology, pathogenicity, and relative virulence of pathogens. It will lead to students assessing a clinical infection scenario from the microbiological perspective that includes making diagnoses based on data from appropriate diagnostic tests, investigating appropriate treatment options, and making recommendations for prevention.

Prerequisite: BIOL 2110G and BIOL 2110L.

### **BIOL 2505. Pathophysiology**

### 3 Credits (3)

This course is designed to provide the conscientious student with a solid foundation for understanding the pathophysiological processes of the human organism. Successful completion of this course will promote the general student learning outcomes listed below. Corequisite/Prerequisites(s): AHS 154 or BIOL 2225. Restricted to: Community Colleges only.

Prerequisite(s): AHS 153 or BIOL 2210. BIOL 2511. Human Pathophysiology

### 3 Credits (3)

The first in a two-course sequence that covers changes in body physiology that result from disease or injury. Includes a general introduction to pathophysiology as well as an overview of altered cellular and tissue biology, injury, inflammation, and neoplasia. Students will also explore deviation from fluid, hemodynamic, and endocrinologic balance. Topics related to the science of pathophysiology, including pathology, pathogenesis, etiology, epidemiology, and clinical manifestations, are also discussed throughout the course where relevant. Grade of C- or higher in microbiology is recommended. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of C- or higher in BIOL 2210 and BIOL 2225.

# BIOL 2512. Human Pathophysiology I 3 Credits (3)

The second in a two-course sequence that covers changes in body physiology that result from disease or injury. This course focuses on the pathophysiology of the nervous, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Topics related to the science of pathophysiology, including pathology, pathogenesis, etiology, epidemiology, and clinical manifestations, are also discussed throughout the course where relevant. Grade of C- or higher in microbiology is recommended. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of C- or higher in BIOL 2210, BIOL 2225, and BIOL 2511.

# BIOL 2610G. Principles of Biology: Biodiversity, Ecology, and Evolution 3 Credits (3)

This course is an introduction to the dynamic processes of living things. Major topics include the mechanisms of evolution, biological diversity, Mendelian genetics, and ecology. May be repeated up to 3 credits. Prerequisite(s)/Corequisite(s): grade of C- or better in MATH 1215 or higher, or a Math Placement Exam score adequate to enroll in mathematics courses beyond MATH 1215.

### BIOL 2610L. Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory

#### 1 Credit (3P)

This laboratory course is an introduction to the dynamic processes of living things. This course introduces students to the methods used in the study of Mendelian genetics, evolution, ecology, and biological diversity. Designed for students continuing in life sciences. May be repeated up to 1 credits.

**Prerequisite(s)**: BIOL 2610G; grade of C- or better in MATH 1215 or higher, or a Math Placement Exam score adequate to enroll in mathematics courses beyond MATH 1215.

### **BIOL 2996. Special Topics**

### 1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 6 credits. Community Colleges only.

## **BLAW-BUSINESS LAW (BLAW)**

### BLAW 2110. Business Law I

### 3 Credits (3)

Survey of the legal environment of business and common legal principles including: the sources of law, dispute resolution and the U.S. court systems, administrative law, tort law, contract law, agency and employment law, business structure and governance, ethics and corporate social responsibility. Explores sources of liability and presents strategies to minimize legal risk. Offered at all NMSU Community Colleges except Dona Ana Community College. Credit may not be earned in both BLAW 2110 and BLAW 317.

### **BLED-BILINGUAL EDUCATION**

# BLED 1110. Introduction n Bilingual Education/ESL 3 Credits

An overview of the American Education system with emphasis on organization, governance, law, demographics, and professional practice. Will include supervised experience in bilingual education/ESL elementary settings for prospective bilingual education/ESL teachers.

### **BLED 2110. Bilingual Methods**

### 3 Credits (3)

This course provides a historical overview of bilingual and ESL education including an emphasis on present trends and practices. Discussions of the aspects of bilingualism at both an individual and a societal level are included.

# BMGT-BUSINESS MANAGEMENT (BMGT)

### **BMGT 112. Banks and Your Money**

#### 3 Credits (3)

Banking in today's economy: language and documents of banking, check processing, teller functions, deposit function, trust services, bank bookkeeping, loans, and investments. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### **BMGT 126. Retail Management**

### 3 Credits (3)

Phases of retailing, including types of retail outlets and basic problems of organizing and operating a retail store. Restricted to: Community Colleges only.

### **BMGT 132. Principles of Selling**

### 3 Credits (3)

Analysis of customer behavior, persuasive communication, process of the sales interview. Restricted to: Community Colleges only.

### **BMGT 136. Forecasting Business Activity**

#### 3 Credits (3)

Course covers the important elements of forecasting all types of business activities including inventory control, revenue forecasts, staffing, and other industry specific activities using metrics and data analysis processes. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### Prerequisite(s): BUSA 1110.

### BMGT 138. Advertising

### 3 Credits (3)

Psychological approach to non-personal consumer persuasion; applied techniques in media selection, layout mechanics, production methods, and campaign structures. Restricted to: Community Colleges only.

### BMGT 140. Principles of Supervision I

### 3 Credits (3)

Principles of supervision emphasizing planning, organization, rating of employees and procedures to develop good morale. Introduction to interpretation of case studies. Restricted to: Community Colleges only.

### **BMGT 150. Income Taxation**

### 3 Credits (3)

Federal income taxation of individuals, sole proprietorships, partnerships, corporations, trusts, and estates with particular reference to CLU, life insurance and annuities. Restricted to: Community Colleges only.

### BMGT 155. Special Topics I

### 1-3 Credits (1-3)

Introductory special topics of lower division level work that provides a variety of timely subjects and content material. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

### BMGT 160. Self-Presentation and Etiquette

### 3 Credits (3

Introduction to business etiquette based on tradition, social expectations, and professional behavior standards. Restricted to: Community Colleges only.

### **BMGT 201. Work Readiness and Preparation**

### 3 Credits (3)

Instruction in methods of selection, seeking, acquiring and retaining employment. Addresses work success skills, business etiquette, employer expectation and workplace norms. Restricted to Community Colleges campuses only.

### **BMGT 205. Customer Service in Business**

#### 3 Credits (3)

Establishes concepts of service quality in relationship to business success and maximization of returns to the organization. Explores techniques for delivering quality and service in a variety of business settings. Restricted to: Community Colleges only.

### **BMGT 208. Business Ethics**

#### 3 Credits (3)

The course examines the underlying dimensions of ethics in business, investigating ethics in relationship to the organization, the stakeholders, and society. Exploration of ethical issues from a historical context, analyzing actual events through the lens of business decision making, including legal/political, sociocultural, economic, and environmental considerations will be undertaken. Restricted to Community Colleges campuses only.

### **BMGT 216. Business Math**

### 3 Credits (3)

Application of basic mathematical procedures to business situations, including percentage formula applications, markup, statement analysis, simple and compound interest, and annuities. Restricted to: Community Colleges only.

Prerequisite(s): CCDM 103 N or satisfactory math score on ACT.

### BMGT 221. Internship I

### 1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: BMGT majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

### BMGT 225. Introduction to Commercial Lending

### 3 Credits (3)

Commercial lending overview, the lending process, portfolio management, and regulation and business development. Restricted to: Community Colleges only.

Prerequisite(s): BMGT 112.

### **BMGT 232. Personal Finance**

### 3 Credits (3)

Budgeting, saving, credit, installment buying, insurance, buying vs. renting a home, income tax statement preparation, investment, and estate disposal through will and trust. Restricted to: Community Colleges only.

### BMGT 236. Small Business Start-Up

### 3 Credits (3)

Starting a small business is a complex endeavor that requires specialized knowledge. This course prepares students to take the first step in business ownership and operations. Restricted to Community Colleges campuses

### **BMGT 237. Managing Small Businesses**

### 3 Credits (3)

Managing a small business requires the owner/operator to be proficient in a number of skills and technical areas. This course provides small business owners/operators with the training and essential knowledge to manage a small business. Restricted to Community Colleges campuses

### **BMGT 240. Human Relations**

#### 3 Credits (3)

Human interactions in business and industrial settings. Motivation and learning experiences as related to problems of the worker and supervisor. Practical applications of human behavior. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

# BMGT 247. Customer Relationship Management 3 Credits (3)

The course addresses the application of positive customer relationship practices and demonstrates the connection between managing excellent customer experiences and business success. Customer related decision making processes through the use of data based decision matrices are introduced. Restricted to Community Colleges campuses

# BMGT 248. Introduction to Quality Management 3 Credits (3)

Introductory practices of total quality management practices aimed at all levels of an organization to continually improve performance to include competitiveness in today s business world. Restricted to: Community Colleges only.

### BMGT 250. Diversity in the Workplace

### 3 Credits (3)

Concepts of culture, diversity, prejudice, and discrimination within the domestic workforce/society. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110.

### **BMGT 260. Real Estate Practice**

### 3 Credits (3)

This course is a requirement for licensure in real estate for the state of New Mexico. Topics covered include: real estate finance, settlement, foreclosure, federal taxation, valuation and appraisal, land descriptions and math skills. These topics are requirements of the New Mexico Real Estate Commission. Restricted to: Community Colleges only.

### BMGT 264. Real Estate Law

### 3 Credits (3)

This course is a requirement for licensure in real estate for the state of New Mexico. Topics covered include: ownership of real estate, real estate brokerage relationships, contracts, environmental concerns and federal laws that affect real estate. These topics are requirements of the New Mexico Real Estate Commission. Restricted to: Community Colleges only. Crosslisted with: PL S 264

### **BMGT 272. E-Commerce Operations**

### 3 Credits (3)

Includes the many forms of e-commerce and emerging technologies that will impact the business of tomorrow. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 105 or BCIS 1110.

# BMGT 277. Entrepreneurship II - Small Business Management 3 Credits (3)

This course is designed to acquaint the student with the opportunities encountered in the management and operations of a small business enterprise. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ENTR 1110.

### **BMGT 280. Introduction to Human Resources**

### 3 Credits (3)

Personnel functions encompassing job analysis, recruitment, selection, training, appraisals, discipline, and terminations. Prerequisite(S): BUSA 1110 or B A 104. Restricted to Community Colleges campuses only.

# BMGT 282. Introduction to International Business Management 3 Credits (3)

Overview of the social, economic and cultural environment of international business transactions. Restricted to Community Colleges only.

Prerequisite(s): BUSA 1110.

# BMGT 285. Introduction to Manufacturing Operations 3 Credits (3)

Introduction to issues related to manufacturing, including an overview of the production function, product design and development, location, layout, forecasting, planning, purchasing, materials/inventory, and quality management. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110 and (BMGT 140 or MGMT 2110).

### BMGT 286. Introduction to Logistics

#### 3 Credits (3)

Overview on the planning, organizing, and controlling of transportation, inventory maintenance, order processing, purchasing, warehousing, materials, handling, packaging, customer service standards, and product scheduling. Restricted to: Community Colleges only.

# BMGT 287. Introduction to Export/Import 3 Credits (3)

Procedures and documentation for exporting and importing products. Emphasis on NAFTA regulations and other U.S. border operations crossings. Restricted to Community Colleges only.

Prerequisite(s): BUSA 1110.

### BMGT 290. Applied Business Capstone

### 3 Credits (3)

Refines skills and validates courses taken in BMGT program. Business simulations, case studies and projects used to test and improve business practices. Student must be within 25 credits of graduation. May be repeated up to 3 credits. Restricted to: BMGT majors. Restricted to Community Colleges campuses only.

**Prerequisite(s):** BUSA 1110, and (BMGT 140 or MGMT 2110), and (BMGT 240 or SOCI 1110G or PSYC 1110G), and MKTG 2110 and BFIN 2110.

### **BMGT 298. Independent Study**

### 3 Credits (3)

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Sophomore standing with 3.0 GPA.

# **BOT-BUSINESS OFFICE TECHNOLOGY** (BOT)

### **BOT 298. Independent Study**

#### 1-3 Credits

Individual studies directed by consenting faculty with prior approval of department head. May be repeated for a maximum of 3 credits. **Prerequisite:** sophomore standing with 3.0 GPA.

# BUSA-BUSINESS ADMINISTRATION (BUSA)

### **BUSA 1110. Intro to Business**

#### 3 Credits (3)

Fundamental concepts and terminology of business including areas such as management, marketing, accounting, economics, personnel, and finance; and the global environment in which they operate.

## C E-CIVIL ENGINEERING (C E)

### C E 109. Computer Drafting Fundamentals

3 Credits (2+2P)

Same as DRFT 109, ET 109, SUR 109.

#### C E 151. Introduction to Civil Engineering

#### 3 Credits (3)

Problem solving and use of computer software for civil engineering applications. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 1220G.

### C E 198. Special Topics

### 1-3 Credits

May be repeated for a maximum of 6 credits. **Prerequisite:** consent of department head.

### C E 233. Mechanics-Statics

### 3 Credits (3)

Engineering mechanics using vector methods. May be repeated up to 3 credits

**Prerequisite(s):** MATH 1521G or MATH 1521H, PHYS 1310G and cumulative GPA of 2.0.

### C E 234. Mechanics-Dynamics

### 3 Credits (3)

Kinematics and dynamic behavior of solid bodies utilizing vector methods. May be repeated up to 3 credits. Crosslisted with: M E 234. **Prerequisite(s):** C E 233, MATH 1521G or MATH 1521H, PHYS 1310G.

### C E 256. Environmental Engineering and Science

### 3 Credits (3)

Principles in environmental engineering and science: physical chemical systems and biological processes as applied to pollution control.

Crosslisted with: ENVS 2111

Prerequisite(s): CHEM 1215G and MATH 1511G.

### C E 256 L. Environmental Science Laboratory

### 1 Credit (1P)

Laboratory experiments associated with the material presented in C E 256. Same as ENVS 2111L.

Corequisite(s): C E 256.

### C E 298. Special Topics

#### 1-3 Credits

May be repeated for a maximum of 6 credits. **Prerequisite:** consent of department head.

# C S-COMPUTER SCIENCE (C S)

### C S 111. Computer Science Principles

### 4 Credits (3+2P)

This course provides a broad and exciting introduction to the field of computer science and the impact that computation has today on every aspect of life. It focuses on exploring computing as a creative activity and investigates the key foundations of computing: abstraction, data, algorithms, and programming. It looks into how connectivity and the Internet have revolutionized computing and demonstrates the global impact that computing has achieved, and it reveals how a new student in computer science might become part of the computing future.

Prerequisite(s): MATH 1215 or higher.

### C S 117. Introduction to Computer Animation

### 3 Credits (3)

Introductory course for learning to program with computer animation as well as learning basic concepts in computer science. Students create interactive animation projects such as computer games and learn to use software packages for creating animations in small virtual worlds using 3D models. Recommended for students considering a minor/major in computer science or simply interested in beginning computer animation or programming.

### C S 151. C++ Programming

### 3 Credits (2+2P)

Introduction to object-oriented programming in the C++ language. May be repeated up to 3 credits.

Prerequisite(s): MATH 1215 or higher.

### C S 152. Java Programming

### 3 Credits (2+2P)

Programming in the Java language. May be repeated up to 3 credits.

Prerequisite(s): MATH 1215 or higher.

### C S 153. Python Programming I

### 3 Credits (3

This course is an introduction to programming in the Python language, covering fundamental scripts, data types and variables, functions, and simple object creation and usage. The focus will be on preparing students to use Python in their own areas. No prior programming experience is required.

Prerequisite(s): MATH 1215 or higher.

### C S 154. Python Programming II

### 3 Credits (3)

This course covers advanced Python programming, including classes, objects, and inheritance, embedded programming in domain applications, database interaction, and advanced data and text processing. The focus will be on preparing students to use Python in their own areas.

Prerequisite(s): C S 153 or C S 453.

# C S 157. Topics in Software Programming and Applications 3 Credits (2+2P)

Current topics in computer programming and software applications. Topic announced in the Schedule of Classes. May be repeated if subtitle is different.

#### C S 158. R Programming I

#### 3 Credits (3)

This course is an introduction to data processing in the R language, covering fundamental script configuration, data types and data collections, R control structures, and basic creation of graphs and data visualizations. This course will not focus on the statistical capabilities of R, though some basic statistical computations will be used.

Prerequisite(s): MATH 1220G.

### C S 171G. Introduction to Computer Science 4 Credits (3+2P)

Computers are now used widely in all area of modern life. This course provides understanding of the theoretical and practical foundations for how computers work, and provides practical application and programming experience in using computers to solve problems efficiently and effectively. The course covers broad aspects of the hardware, software, and mathematical basis of computers. Weekly labs stress using computers to investigate and report on data-intensive scientific problems. Practical experience in major software applications includes an introduction to programming, word processing, spreadsheets, databases, presentations, and Internet applications.

Prerequisite(s): MATH 1130G or MATH 1215 or higher.

### C S 172. Computer Science I

#### 4 Credits (3+2P)

Computational problem solving; problem analysis; implementation of algorithms using Java. Object-oriented concepts, arrays, searching, sorting, and recursion. May be repeated up to 4 credits. Crosslisted with: C S 460.

Prerequisite(s): (A C or better in either MATH 1250G or MATH 1430G) OR (A C or better in MATH 1220G and a 1 or better in the CS Placement Test).

### C S 209. Special Topics.

#### 1-3 Credits

May be repeated for a maximum of 12 credits.

### C S 271. Object Oriented Programming

#### 4 Credits (3+2P)

Introduction to problem analysis and problem solving in the objectoriented paradigm. Practical introduction to implementing solutions in the C++ language. Pointers and dynamic memory allocation. Handson experience with useful development tools. May be repeated up to 4 credits.

Prerequisite(s): At least a C- in C S 172 or E E 112.

#### C S 272. Introduction to Data Structures

#### 4 Credits (3+2P)

Design, implementation, use of fundamental abstract data types and their algorithms: lists, stacks, queues, deques, trees; imperative and declarative programming. Internal sorting; time and space efficiency of algorithms.

Prerequisite(s): At least a C- in C S 172, or placement.

## C S 273. Machine Programming and Organization 4 Credits (3+2P)

Computer structure, instruction execution, addressing techniques; programming in machine and assembly languages. May be repeated up to 4 credits.

Prerequisite(s): At least a C- in C S 172 or E E 112.

## C S 278. Discrete Mathematics for Computer Science 4 Credits (3+2P)

Discrete mathematics required for Computer Science, including the basics of logic, number theory, methods of proof, sequences, mathematical induction, set theory, counting, and functions. **Prerequisite(s)**: At least C- in C S 172.

# CCDE-DEVELOPMENTAL ENGLISH (CCDE)

## CCDE 105 N. Effective Communication Skills 4 Credits (3+2P)

Instruction and practice in basic communication, to include written and oral presentations. Develops thinking, writing, speaking, reading, and listening skills necessary for successful entry to college and university classes. Provides laboratory. RR applicable.

### CCDE 110 N. General Composition

#### 4 Credits (3+2P)

Instruction and practice in preparation for college-level writing. Students will develop and write short essays. Provides laboratory. May be repeated up to 4 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

# CCDM-DEVELOPMENTAL MATHEMATICS (CCDM)

## CCDM 100 N. Mathematics Preparation for College Success 1-4 Credits

Mathematics skills course designed for college students with math skills insufficient for success in CCDM 103N. May be repeated for a maximum of 4 credits. RR applicable.

### CCDM 103 N. Pre-Algebra

#### 4 Credits (3+2P)

Fundamental mathematics operations and arithmetic computations. Introduction to algebra and applied geometry. Provides laboratory and individualized instruction. RR applicable.

## CCDM 105 N. Mathematics Preparation and Pre-Algebra 5 Credits (4+2P)

A total immersion course that combines CCDM 100N and CCDM 103N using tutorials, manipulatives, and classroom instruction. Completion of this class is equivalent to the completion of CCDM 100N and CCDM 103N. Restricted to: Community Colleges only.

## CCDM 107 N. Pre-Algebra Fast-Track 1 Credit (1)

An intensive review of fundamental mathematics operations and arithmetic computations. A review of introductory concepts of algebra and applied geometry. Students must meet eligibility requirements (Math Placement Exam). Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Math Placement Exam.

## CCDM 108 N. Beginning Algebra Fast-Track 1 Credit (1)

An intensive review of fundamental algebra topics including algebraic expressions, solving linear and quadratic equations, factoring, radicals, exponents. Students must meet eligibility requirements (math placement exam or completion of CCDM 107N). Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

**Prerequisite(s):** Math Placement Exam; or passing score in CCDM 105 N or CCDM 103 N, or CCDM 107 N.

### CCDM 112 N. Developmental Algebra I

#### 4 Credits (3+2P)

Fundamental algebra operations, algebraic expressions, solving linear equations, systems of equations and applications of linear equations. Introduction to exponents and polynomials. Provides laboratory instruction. Completion of CCDM 112N and CCDM 113N is equivalent to completion of CCDM 114N. Graded: Traditional with RR. Traditional Grading with RR. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of C or better in CCDM 103N or CCDM 105N or adequate placement score.

### CCDM 113 N. Developmental Algebra II

#### 4 Credits (3+2P)

Fundamental algebra operations, polynomials, factoring, solving quadratics by factoring, rational expressions, exponents and radical expressions (continuation of CCDM 112N). Provides laboratory instruction. Completion of CCDM 112N and CCDM 113N is equivalent to completion of CCDM 114N. Graded: Traditional with RR. Restricted to: Community Colleges only.

**Prerequisite(s):** Grade of C or better in CCDM 112N or consent of instructor.

#### CCDM 114 N. Algebra Skills

#### 4 Credits (3+2P)

Fundamental algebra operations: algebraic expressions, solving linear and quadratic equations, factoring, radicals, exponents. Provides laboratory and individualized instruction. Completion of CCDM 114N meets basic skills requirement. Graded: Traditional with RR. Traditional Grading with RR. Restricted to Community Colleges campuses only. **Prerequisite(s):** C or better in CCDM 103N or CCDM 105N or adequate placement score.

# CCDR-DEVELOPMENTAL READING (CCDR)

## CCDR 103 N. Comprehensive Reading Development 4 Credits (3+2P)

Provides integration of basic reading skills, including vocabulary development, text comprehension, and critical reading skills. Course earns institutional credit but will not count towards degree requirements. May be repeated up to 4 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

Prerequisite(s): Appropriate placement score.

## CCDR 105 N. Fundamentals of Academic Reading. 3 Credits (2+2P)

Fundamentals of academic reading skills. Emphasis on vocabulary development and text comprehension through literature based instruction. Course earns institutional credit but will not count towards degree requirements. Graded: Traditional with RR. May be repeated up to 3 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

Prerequisite(s): Appropriate placement score.

## CCDR 110 N. Effective College Reading 3 Credits (2+2P)

Provides a variety of strategies for effective reading and studying at the college level. Emphasis on reading across disciplines. Course earns institutional credit but will not count towards degree requirements. Graded: Traditional with RR. May be repeated up to 3 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only. Prerequisite(s): Appropriate placement score.

# CCDS-DEVELOPMENTAL SKILLS (CCDS)

### CCDS 109 N. Study Skills for Reading

#### 1-3 Credits

Individualized reading skill strategies necessary for success in college classroom. May be repeated for a maximum of 3 credits. Graded traditional or S/U.

#### CCDS 111 N. Study Skills for Math

#### 1-3 Credits

Individualized study skill strategies necessary for success in the math classroom. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

#### CCDS 113 N. Study Skills for English

#### 1-3 Credits

Individualized study skill strategies necessary for success in the composition classroom. May be repeated for a maximum of 3 credits.

### CCDS 119 N. College Reading and Writing 4 Credits (4)

Instruction and practice in preparation for college-level reading and writing. Students will develop and write essays, work on the writing process, and learn to read and analyze college-level texts. Traditional Grading with RR.

Prerequisite(s): Appropriate placement test score.

# CEPY-COUNSELING & EDUCATIONAL PSYCHOLOGY

#### CEPY 1120G. Human Growth and Behavior

### 3 Credits (3)

Introduction to the principles of human growth and development throughout the life span.

### CEPY 1150. Career Development

#### 1 Credit (1)

Professional career curriculum to assist students in developing an understanding and ability to articulate who they are as emerging professionals through personal assessment activities. The focus will be on providing students with tools and strategies for reflection, planning, and goal-setting. Course does not count toward CEP minor. Spring only course offering. Restricted to: College of Education Majors only majors. Restricted to Las Cruces campus only.

## CEPY 1160. Academic Development 1 Credit (1)

The course is designed to provide you students with a foundation in their personal academic process. The course will assist students in developing an understanding and ability to articulate who they are as beginning college students through personal assessment activities. The focus will be on providing students with tools and strategies for reflection, planning, and goal-setting. Topics discussed will include time management, study skills, test taking skills, stress management, motivational and academic discipline skills, interpersonal skills and college survival skills. We intend for this to be a supportive, respectful and collaborative environment where everyone can learn and grow. Fall only course offering. Restricted to: College of Education majors.

## CEPY 2110. Learning in the Classroom 3 Credits (3)

This class introduces you to the basic principles of learning, including cognition, motivation, and assessment. You will examine the relationships between theory, research, and practice in learning, memory, child development, motivation, and educational assessment for the school setting. This course will provide the student with concepts and principles of educational psychology that will form a framework for thinking about learning and instruction and how theories of learning are connected to classroom situations

#### CEPY 2120. The Preschool Child

#### 3 Credits (3)

Survey of psychological development from conception to age five.

## CEPY 2130. Adolescence - School Setting 3 Credits (3)

This course is designed to present the student with an introduction to the area of adolescent development with an emphasis on the positive aspects of this life stage. Students will be encouraged to be reflective on the topics presented in class that will include issues on diversity, culture, health, and well-being, emerging adulthood and suggestions for improving the lives of adolescents.

## CEPY 2140. Explorations of Counseling & Community Psychology 3 Credits (3)

An introduction and exploration of various career options and functions within the mental health disciplines to aid in professional development. Emphasis will be placed on depth and scope of the choices available including research, teaching, community work, public policy, and clinical work and prevention (e.g. counseling, psychotherapy, assessment, consultation). May be repeated up to 6 credits.

#### CEPY 2140H. Exploration of CCP

#### 3 Credits (3)

An exploration of careers, activities, & techniques in counseling, school, and community psychology. Taught with CEPY 2140 with differentiated instruction and/or independent project to be determined. Restricted to Las Cruces campus only.

### **CHEF-CULINARY ARTS (CHEF)**

### CHEF 101. Culinary Arts Kitchen Orientation 3 Credits (3)

Provides students with basic information and skills necessary for success in the Culinary Arts program. Students learn basic kitchen routines, safety and sanitation, professional conduct and deportment, standard kitchen calculations, knife handling, and are introduced to the laboratories for initial cooking experiences. Restricted to Community Colleges campuses only.

#### **CHEF 125. Introductory Cake Decorating**

#### 1 Credit (2P)

Introduction to the professional cake decorating techniques used by pastry chefs. Basic skills of piping a variety of icings into different patterns are taught. Restricted to Community Colleges campuses only. **Prerequisite(s):** Consent of instructor.

### CHEF 126. Intermediate Cake Decorating

#### 1 Credit (2P)

Introduction to more advanced professional cake decorating techniques used by pastry chefs. Fondant work and more complex decorating schemes are taught. Restricted to Community Colleges campuses only. **Prerequisite(s):** CHEF 125.

#### CHEF 127. Chocolate Work

#### 1 Credit (2P)

Introduction to working with chocolate utilizing a variety of methods. Tempering, forming, molding, and other professional techniques will be taught. Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of Instructor.

#### **CHEF 128. Advanced Chocolate Work**

#### 1 Credit (2P)

More advanced treatments of chocolate are explored and professional techniques for the chocolatier are developed. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 127.

### CHEF 129. Wedding Cake Design and Construction

#### 1 Credit (2P)

Basic skills in designing wedding (or other specialty event) cakes. Includes shaping, icing selection, decorating scheme, presentation, transportation, and remote set up. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 125 and CHEF 126.

### CHEF 155. Special Topics

#### 1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

### CHEF 165. Math for Kitchen Operations

#### 3 Credits (3)

Fundamental mathematical concepts and computations, including measurement, recipe scaling and conversions, metric unit conversion, ingredient yield calculations, ratios and cost extensions are covered. Examples of basic mathematical calculations use kitchen and food service functions, as well as situations to demonstrate principles.

## CHEF 211. Food Production Management I 3 Credits (2+2P)

Introduction to kitchen design, workflow, and commercial equipment. Techniques, methods, and application of basic food production principles. Practical experience in cooking processes from a managerial viewpoint. Crosslisted with: HOST 211. Restricted to Community Colleges only.

## CHEF 212. Food Production Management II 3 Credits (2+2P)

Selection and use of ingredients. Demonstration and application of classical and modern cooking and preparation techniques. Management techniques for kitchen personnel. Recipe design and analysis. Crosslisted with: HOST 212. Restricted to Community Colleges only.

Prerequisite(s): CHEF 211 or consent of instructor.

#### CHEF 213. Bakery Management I

#### 3 Credits (2+2P)

Fundamentals of baking from a supervisory/management perspective. Exposure to commercial equipment and processes. Introduction to commercial alternatives to scratch-preparation methods. Crosslisted with: HOST 213. Restricted to Community Colleges only.

### CHEF 214. Bakery Management II

#### 3 Credits (2+2P)

Advanced techniques and management of bakery operations are explored. Students learn classical forms and techniques. Modern methods of preparing traditional pastry and baked goods are introduced. Crosslisted with: HOST218. Restricted to Community Colleges only. **Prerequisite(s):** CHEF 213 or consent of instructor.

### CHEF 233. Culinary Arts Fundamentals I

#### 4 Credits (1+9P)

Introduction to the basics of culinary arts, including ingredients recognition, cooking methods and techniques, knife usage, preparation of basic stocks, mother sauces, starches and vegetables. Students will participate in laboratory work designed to create an understanding of the professional role of the culinarian. Preparation and production of food products integral to service to guests is incorporated in the course. May be repeated up to 4 credits. Consent of Instructor required. Restricted to: CHEF, HOST, HSMG, HOCH majors. Restricted to Community Colleges campuses only.

## CHEF 234. Culinary Arts Fundamentals II 4 Credits (1+9P)

Continuation of introductory course focusing on meat cookery, daughter sauces, cold food preparation, poultry and seafood. Safe use of equipment is emphasized while experiencing differing methods of preparation and cooking. Preparation and production of food products integral to service of guests is incorporated in this course. May be repeated up to 4 credits. Restricted to: HOST,HSMG,CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 233 with a grade of 'C-' or better.

### CHEF 235. Advanced Culinary Arts I

#### 4 Credits (1+9P)

Exploration and experience in preparation techniques beyond the basic level. Nutritional components of food are discussed, as in the application of good nutrition practices in recipe design. Students are encouraged to use creative methods to expand the individual's culinary expressions. Prepares food products for service to guests in both bulk feeding and individual service settings. Plans, prepares, serves and critiques meals provided for students, faculty and staff. May be repeated up to 4 credits. Prerequisite(s)/Corequisite(s): CHEF 234 with a grade of 'C' or better if course has been previously taken. Restricted to: CHEF majors. Restricted to Community Colleges campuses only.

## CHEF 236. Advanced Culinary Arts II 4 Credits (1+9P)

Advanced techniques and experimental use of food combinations to enhance the student's repertoire of skills and abilities. Utilizes knowledge to develop recipes for unique products. Plans, prepares, serves and critiques meals provided for students, faculty and staff. Restricted to: CHEF majors. Restricted to Community Colleges campuses only. Prerequisite(s): CHEF 235 with a grade of 'C' or better.

### CHEF 237. Banquet/Catering Production

#### 3 Credits (1+6P)

Planning and implementation of the culinary aspects of catered functions. Development of time schedules, work assignments and service plans for catered events and banquet functions. Production of food items in appropriate quantities for catered events. Costing and control functions are covered. May be repeated up to 6 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of 'C' or above in CHEF 233.

### CHEF 240. Baking Fundamentals I

#### 4 Credits (1+9P)

Introduction to baking techniques, measurment and use of ingredients; equipment use and chemical reactions inherent in the baking process. Production of simple desserts and baked goods. Itroduction to working with bread doughs. Restricted to: HOST, CHEF majors. Restricted to Community Colleges campuses only.

Corequisite(s): CHEF 233.

#### CHEF 241. Baking Fundamentals II 4 Credits (1+9P)

More advanced baking and bread making techniques are covered in this course with emphasis on the more advanced elements of quantity production. Students work with a variety of products and ingredients. Restricted to: HOST, CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): grade of 'C' or above in CHEF 240.

### CHEF 242. Intermediate Baking I

#### 4 Credits (1+9P)

More advanced baking and pastry techniques are covered in this course with emphasis on the basic elements of patisserie production. Focus is on preparing students to work in a pastry kitchen. Restricted to: HOST, CHEF majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of 'C' or above in CHEF 241.

#### CHEF 243. Intermediate Baking II

#### 4 Credits (1+9P)

Continuation of work with basic elements of patisserie products including laminated doughs and filled products. Students prepare creams, custards, fillings and are introduced to cake assembly procedures. Restricted to: CULI majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of 'C' or above in CHEF 242.

### **CHEF 255. Special Topics**

### 3 Credits (3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to: CULI, HOST, HSMG majors. Restricted to Community Colleges campuses only.

#### CHEF 256. International Cuisine

#### 3 Credits (1+6P)

Exploration into a variety of international cuisines is undertaken, including the cultural and historical backgrounds of the foods being prepared. Students work on developing themed menus and production plans for meals utilizing a single international cuisine. May be repeated up to 6 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of 'C' or above in CHEF 233.

#### CHEF 257. Garde Manger

#### 3 Credits (1+6P)

Traditional garde manger skills are taught, including plated salads, cold foods, entrements, pates, forcemeat, terrines, charcuterie and chaud froid work. The art and craft of food design, preparation and service are emphasized. May be repeated up to 3 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of 'C' or above in CHEF 233.

#### CHEF 260. Nutrition for Chefs

#### 3 Credits (3)

Aspects of basic human nutritional requirements are covered as are the applications of the standards to the cooking and baking. Meeting the USDA nutrient guidelines while preparing good tasting food is discussed, calorie, fat and sodium reduction techniques are explored.

### **CHEM-CHEMISTRY (CHEM)**

#### CHEM 1111. Basic Chemistry

#### 3 Credits (3)

For students whose preparatory science or math training has been deficient. Does not meet the chemistry requirement in any curriculum. **Prerequisite:** Enhanced ACT composite score of at least 18 or a grade of C- or better in CCDM 114 N.

## CHEM 1120G. Introduction to Chemistry Lecture and Laboratory (non majors)

#### 4 Credits (3+3P)

This course covers qualitative and quantitative areas of non-organic general chemistry for non-science majors and some health professions. Students will learn and apply principles pertaining, but not limited to, atomic and molecular structure, the periodic table, acids and bases, mass relationships, and solutions. The laboratory component introduces students to techniques for obtaining and analyzing experimental observations pertaining to chemistry using diverse methods and equipment.

Prerequisite: CCDM 114N or A S 103 or MATH 1215 or higher.

### CHEM 1121. General Supplemental Instruction I

1 Credit (1)

Collaborative workshop for students in General Chemistry I. Course does not count toward departmental degree requirements. May be repeated for a maximum of 2 credits.

Corequisite(s): CHEM 1215G.

### CHEM 1122. General Supplemental Instruction II

#### 1 Credit (1)

Collaborative workshop for students in General Chemistry II. Course does not count toward departmental degree requirements. May be repeated for a maximum of 2 credits.

Corequisite(s): CHEM 1225G.

## CHEM 1123. Principles of Supplemental Instruction III 1 Credit (1)

Collaborative workshop for students in CHEM 1120G, Principles and Applications of Chemistry. Course does not count toward departmental degree requirements. May be repeated for maximum of 2 credits. **Corequisite(s):** CHEM 1120G.

## CHEM 1215G. General Chemistry I Lecture and Laboratory for STEM Majors

#### 4 Credits (3+3P)

This course covers descriptive and theoretical chemistry. **Prerequisite:** (1) grade of C- or better in MATH 1215 or higher, or a Mathematics Placement Exam Score adequate to enroll in mathematics courses beyond MATH 1215.

## CHEM 1216. General Chemistry I Lecture and Laboratory for CHEM Majors

#### 4 Credits (3+3P)

As the first of a two-semester sequence, this course teaches fundamental concepts in chemistry, including the electronic structure of atoms, chemical periodicity, nature of chemical bonds, molecular structure, the three phases of matter, etc. Designed for majors in chemical and other physical sciences, including engineering. May be appropriate for the life science major. It is assumed that the students are familiar with college algebra, chemical nomenclature, stoichiometry, and scientific measurements. The laboratory component is designed to complement the theory and concepts presented in lecture, and will introduce students to techniques for obtaining and analyzing experimental observations pertaining to chemistry using diverse methods and equipment.

Prerequisite(s): Eligible to take MATH 1250G and an ACT composite score of 22 or higher.

### CHEM 1225G. General Chemistry II Lecture and Laboratory for STEM Majors

#### 4 Credits (3+3P)

This course is intended to serve as a continuation of general chemistry principles for students enrolled in science, engineering, and certain preprofessional programs. The course includes, but is not limited to a theoretical and quantitative coverage of solutions and their properties, kinetics, chemical equilibrium, acids and bases, entropy and free energy, electrochemistry, and nuclear chemistry. Additional topics may include (as time permits) organic, polymer, atmospheric, and biochemistry. The laboratory component is designed to complement the theory and concepts presented in lecture, and will introduce students to techniques for obtaining and analyzing experimental observations pertaining to chemistry using diverse methods and equipment.

Prerequisite(s): C- or better in CHEM 1215G.

## CHEM 1226. General Chemistry II Lecture and Laboratory for CHEM Majors

#### 4 Credits (3+3P)

As the second of a two-semester sequence, this course teaches fundamental concepts in chemistry, including solutions, equilibria, electrochemistry, thermodynamics and kinetics. Designed for majors in chemical and other physical sciences, including engineering. May be appropriate for the life science major. It is assumed that the students are familiar with college algebra, chemical nomenclature, stoichiometry, and scientific measurements. The laboratory component is designed to complement the theory and concepts presented in lecture, and will introduce students to techniques for obtaining and analyzing experimental observations pertaining to chemistry using diverse methods and equipment.

Prerequisite(s): C- or better in CHEM 1216.

## CHEM 2111. Explorations in Chemistry 1 Credit (1)

The major intent of this course is to deepen your interest in chemistry and make you aware of research and career opportunities in the field. During this semester we hope to discuss both old and new developments in chemistry that impact our lives. We also want to build our communication skills that are so necessary in our profession. Graded S/U.

### CHEM 2115. Survey of Organic Chemistry and Laboratory 4 Credits (3+3P)

This course is a one-semester survey of organic and biological chemicals. Students will be introduced to nomenclature, molecular structure, properties, and reactions of hydrocarbons, alcohols, carbonyls, organic acids and bases, carbohydrates, lipids, and proteins. The handling of organic chemicals, simple organic reactions, tests for functional groups, and synthesis will be learned in the laboratory component of this course. May be repeated up to 4 credits.

Prerequisite(s): CHEM 1225G.

## CHEM 2120. Integrated Organic Chemistry and Biochemistry 3 Credits (3)

This course is a one- semester introduction to Organic Chemistry and Biochemistry designed for students in health and environmental occupations. The course surveys organic compounds in terms of structure, physical, and chemical properties, followed by coverage of the chemistry of specific classes of organic compounds in the biological environment. Students will apply course concepts to everyday organic and biological chemistry problems in preparation for careers in health and environmental fields.

Prerequisite: CHEM 1120G or CHEM 1215G.

## CHEM 2226. General Chemistry III 3 Credits (2+3P)

Quantitative aspects of general chemistry: solid state structure, equilibrium, thermodynamics, and kinetics. Required of chemical science majors who have taken CHEM 1215G/1225G.

Prerequisite: CHEM 1225G.

#### CHEM 2991. Introduction to Research

#### 1-3 Credits (3+9P)

Techniques and procedures of chemical research. May be repeated for a maximum of 3 credits.

Prerequisites: 8 credits of chemistry and a 3.0 GPA in chemistry.

### CHEM 2996. Special Topics in Chemistry

#### 1-6 Credits (1-6)

Specific subjects in Chemistry. These subjects will be announced in the 'Schedule of Classes'. It may be repeated under different topics for a maximum of 12 credits.

### **CHIN-CHINESE (CHIN)**

#### CHIN 1110. Mandarin Chinese I

#### 4 Credits (4)

This is the first semester of a two-semester sequence in first year modern standard Chinese ("Mandarin"). This course is recommended for students who have had little or no experience in the Chinese language. A beginning Mandarin Chinese course is designed to introduce the Mandarin sound system ("pinyin"), basic vocabulary, Chinese characters (either in Simplified or Traditional characters), and basic grammatical concepts and structures. In order to help beginners develop their communicative competence in the four basic skills, the 5Cs (Communication, Cultures, Comparisons, Connections, and Communities) will be integrated consistently into the content and exercises in the course.

## CHIN 1120. Mandarin Chinese II 4 Credits (4)

This is the second semester of a two-semester sequence in first year modern standard Chinese ("Mandarin"). This course is designed for students who have taken 1st Semester Mandarin Chinese, and focuses on enhancing pronunciation and expanding the vocabulary and grammar dealing with daily activities. In order to help beginners develop their communicative competence in the four basic skills, the 5Cs (Communication, Cultures, Comparisons, Connections, and Communities) will be integrated consistently into the content and exercises in the course.

Prerequisite(s): C or better in CHIN 1110.

### CHIN 2110. Mandarin Chinese III

#### 3 Credits (3)

This is the first semester of a two-semester sequence in second year modern standard Chinese ("Mandarin"). This course is designed for students who have taken 1st and 2nd Semester Mandarin Chinese (or equivalence), and have a basic foundation on Chinese phonetics, characters, and grammars. In order to help students develop their communicative competence in the four basic skills, the 5Cs (Communication, Cultures, Comparisons, Connections, and Communities) will be integrated consistently into the content and exercises in the course. Restricted to Las Cruces campus only.

Prerequisite(s): C or better in CHIN 1120.

## CHIN 2120. Mandarin Chinese IV 3 Credits (3)

This is the second semester of a two-semester sequence in second year modern standard Chinese ("Mandarin"). This course is designed for students who have taken 1st, 2nd, and 3rd Semester Mandarin Chinese (or equivalence), and have a good foundation on Chinese phonetics, characters, and grammars. In order to help students develop their communicative competence in the four basic skills, the 5Cs (Communication, Cultures, Comparisons, Connections, and Communities) will be integrated consistently into the content and exercises in the course. Restricted to Las Cruces campus only.

Prerequisite(s): C or better in CHIN 2110.

# CHME-CHEMICAL & MATERIALS ENGR (CHME)

## CHME 101. Introduction to Chemical Engineering Calculations 2 Credits (2)

Introduction to the discipline of chemical engineering, including: an overview of the curriculum; career opportunities; units and conversions; process variables; basic data treatments; and computing techniques including computer programming and use of spreadsheets.

Prerequisite(s)/Corequisite(s): MATH 1250G.

#### **CHME 102. Material Balances**

#### 2 Credits (2)

Perform material balances in single- and multi-phase, reacting and non-reacting systems under isothermal conditions.

Prerequisite(s)/Corequisite(s): CHEM 1215G or CHEM 1265.

Prerequisite(s): MATH 1250G, CHME 101.

## CHME 201. Energy Balances & Basic Thermodynamics 3 Credits (3)

Chemical Engineering energy balances; combined energy and material balances including those with chemical reaction, purge and recycle; thermochemistry; application to unit operations. Introduction to the first and second laws of thermodynamics and their applications. May be repeated up to 3 credits.

Prerequisite(s): CHME 102, CHEM 1216 or CHEM 1215G, and MATH 1521G or MATH 1521H.

## CHME 294. Communicating in Chemical Engineering 2 Credits (2)

Students will master the fundamentals of communicating as an engineer, with focus on both written and oral communication, both independently and collaboratively, including development of the skills of gathering information and making decisions.

Corequisite(s): ENGL 1110G, COMM 1115G.

# CHSS - COMM HEALTH/SOC SRVCS (CHSS)

## CHSS 1110. Intro to Health & Community Services 3 Credits (3)

This course offers a holistic and multidisciplinary approach towards health promotion, wellness and a healthy lifestyle. Emphasis is placed on the major problems/issues that have the greatest significance to personal and community health. Topics to be discussed include:nutrition, fitness, stress management, sexuality, drug education and others.

## CHSS 2110. Ethical & Research Issues in Human & Comm Service 3 Credits (3)

Ethical and legal responsibilities of health personnel with an emphasis on research applications. May not receive credit for both CHSS 2110 and CHSS 316. Community Colleges only.

#### CHSS 2510. Service Learning

#### 1-4 Credits (1-4)

Service Learning Experience in Human and Community Service: Exploration of contemporary social, civil, economic and ethical problems that require student participation in collaborative efforts within the community

Prerequisite(s)/Corequisite(s): PHLS 1110G, CHSS 1110, and PHLS 2120. Prerequisite(s): PHLS 2110. Restricted to Community Colleges campuses only.

## CHSS 2511. Leadership/Mentorship Training for the CHSS Ambassadors Program

#### 1 Credit (1)

Leadership development for volunteers serving as CHSS ambassadors. Focus on public relations and CHSS undergraduate degree programs. Graded S/U

Prerequisite: consent of instructor.

### **CJUS-CRIMINAL JUSTICE**

## CJUS 1110G. Introduction to Criminal Justice 3 Credits (3)

This course provides an overall exploration of the historical development and structure of the United States criminal justice system, with emphasis on how the varied components of the justice system intertwine to protect and preserve individual rights. The course covers critical analysis of criminal justice processes and the ethical, legal, and political factors affecting the exercise of discretion by criminal justice professionals.

#### CJUS 1120. Criminal Law

#### 3 Credits (3)

This course covers basic principles of substantive criminal law including elements of crimes against persons, property, public order, public morality, defenses to crimes, and parties to crime. May be repeated up to 3 credits.

#### CJUS 1996. Special Topics in Criminal Justice

#### 1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated under different topics for a maximum of 6 credits.

## CJUS 2120. Criminal Courts and Procedure 3 Credits (3)

This course covers the structures and functions of American trial and appellate courts, including the roles of attorneys, judges, and other court personnel, the formal and informal process of applying constitutional law, rules of evidence, case law and an understanding of the logic used by the courts.

## CJUS 2140. Criminal Investigations 3 Credits (3)

This course introduces criminal investigations with in the various local, state, and federal law enforcement agencies. Emphasis is given to the theory, techniques, aids, technology, collection, and preservation procedures which insure the evidentiary integrity. Courtroom evidentiary procedures and techniques will be introduced. Community Colleges only. (Note: students completing CJUS 2140 may not take CJUS 321.)

## CJUS 2150. Corrections System 3 Credits (3)

This course introduces the corrections system in the United States, including the processing of an offender in the system and the responsibilities and duties of correctional professionals. The course covers the historical development, theory, and practice, as well as the institutional and community-based alternatives available in the corrections process.

### CJUS 2160. Field Experience in Criminal Justice 3-6 Credits

This course is designed to provide actual experience working for a criminal justice agency and the opportunity to apply criminal justice concepts and theory to a field situation. Students already working in an agency will complete an approved learning project while on the job.

Prerequisites: CJUS 1110G, prior arrangement and consent of instructor and a GPA of 2.0 or better in major.

## CJUS 2220. The American Law Enforcement System 3 Credits (3)

This course covers the historical and philosophical foundations of law and order, with an in-depth examination of the various local, state, ad federal law enforcement agencies and how they interact within the criminal justice system.

### **COMM-COMMUNICATION (COMM)**

## COMM 1115G. Introduction to Communication 3 Credits (3)

This survey course introduces the principles of communication in the areas of interpersonal, intercultural, small group, organizational, public speaking, and mass and social media.

#### COMM 1130G. Public Speaking

#### 3 Credits (3)

This course introduces the theory and fundamental principles of public speaking, emphasizing audience analysis, reasoning, the use of evidence, and effective delivery. Students will study principles of communication theory and rhetoric and apply them in the analysis, preparation and presentation of speeches, including informative, persuasive, and impromptu speeches.

### COMM 2110. Communication Theory

#### 3 Credits (3)

This course provides an exploration of major theories, concepts and methods of research in the study of human communication.

## COMM 2111. Introduction to the Communication Major 1 Credit (1)

This is a one-credit course for new Communication Studies majors. It helps them get acquainted with the department, the department head (professor for this course, the professors, other students, and the department student organizations. It also deals with degree mapping and career mapping and any problems the students are having in their first year. Finally, the students learn about the the Communication Studies discipline and various communication careers they can pursue with their degree. The class meets one day each week for one hour. Restricted to: Communication Studies majors. Restricted to Las Cruces campus only.

#### COMM 2996. Special Topics

#### 1-3 Credits

Specific subjects and credits to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

#### COMM 2997. Independent Study

#### 1-3 Credits

Individualized, self-paced projects for students with a special interest in communication topics. May be repeated for a maximum of 6 credits. **Prerequisites:** COMM 1115G and sophomore standing.

### **CSEC - CYBERSECURITY (CSEC)**

### CSEC 110. Principles of Cybersecurity

#### 3 Credits (3)

Course covers contemporary trends in cybersecurity including understanding characteristics of security vulnerabilities as they relate to hardware, software, data, procedures, and user actions. Restricted to Community Colleges campuses

### CSEC 275. Introductory to Cryptography

#### 3 Credits (3)

Introduction to the foundation of cryptography, principles behind cryptographic design, and cryptographic applications. Topics include encryption techniques, common cryptographic protocols and security functions

**Prerequisite(s)/Corequisite(s):** MATH 1215 or above. Restricted to Las Cruces campus only.

### CSEC 280. Introduction to Cyber Defense

#### 3 Credits (3)

Introduction to the foundation of cryptography, principles behind cryptographic design, and cryptographic applications. Topics include encryption techniques, common cryptographic protocols and security functions.

**Prerequisite(s)/Corequisite(s):** MATH 1215. Restricted to Las Cruces campus only.

## CSEC 285. Introduction to Managing Information Security 3 Credits (3)

Managerial aspects of information security and assurance including access control models, information security governance, accountability metrics, legal responsibilities, and information security program assessment.

**Prerequisite(s)/Corequisite(s):** CTEC 290 or OECS 269. Restricted to Las Cruces campus only.

### **CTEC - CYBER TECHNOLOGY**

## CTEC 105. Introduction to Information Technology 3 Credits (3)

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communication, data analysis, information management, and decision-making. Restricted to Community Colleges campuses only.

## CTEC 110. Software Applications for Technicians 1-3 Credits (1-3)

Introduction to software applications for communication, information management, and data analysis. Students will utilize presentation, word processing, spreadsheet, database, and utility software to simulate real-world activities experienced by help desk technicians. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

#### CTEC 115. TOPICS IN IT

#### 1-3 Credits (1-3)

Topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

#### CTEC 120. IT Infrastructure Support I

### 1-3 Credits (1-3)

Introduction to most common types of PC configurations, installations, and failures. This course will explore troubleshooting skills for maintaining and repairing common hardware and software related problems. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

#### CTEC 122. IT Infrastructure Support II

#### 1-3 Credits (1-3)

Continuation of CTEC 120. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CTEC 120 or OECS 185.

#### CTEC 127. Introduction to Internet of Things

#### 1-3 Credits (1-3)

Exploration of the importance of IoT in society, components of typical IoT devices and future trends. IoT design considerations, constraints, interfacing and key components of networking will also be covered. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

#### CTEC 130. Linux Workstation

#### 1-3 Credits (1-3)

Installation, configuration, and maintenance of the Linux operating system. Covers file organization, user management, and system security. Addresses general procedures for working with and modifying the operating system. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

#### CTEC 135. Windows Workstation

#### 1-3 Credits (1-3)

Installation, configuration, and maintenance of the Windows operating system. Covers file organization, user management, and system security. Addresses general procedures for working with and modifying the operating system. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

#### CTEC 140. Introduction to Database Design

#### 1-3 Credits (1-3)

Introduction to basic relational database concepts including terminology, tables, queries, forms, and reports. The course teaches data modeling concepts, building Entity Relationship Diagrams (ERDs), mapping ERDs, and use of data management system applications. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

## CTEC 145. Introduction to Database Management 1-3 Credits (1-3)

Use of SQL to analyze complex business scenarios as well as to design and create, and manage databases. Course includes exposure to Application Express (APEX) to provide practical, hands-on activities. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CTEC 140 or OECS 220.

### CTEC 150. Mobile Application Programming

#### 1-3 Credits (1-3)

Introduction to elements of mobile application coding including concepts, design strategies, and tools needed to create, test, and deploy applications for mobile devices. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

#### CTEC 152. JAVA Programming

#### 1-3 Credits (1-3)

Introduction to concepts of programming in the Java language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

#### CTEC 154. C++ Programming

#### 1-3 Credits (1-3)

Introduction to concepts of programming in the C++ language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

#### CTEC 156. Python Programming

#### 1-3 Credits (1-3)

Introduction to concepts of programming in the Python language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

#### CTEC 158. Visual Basic Programming

#### 1-3 Credits (1-3)

Introduction to concepts of programming in the Visual Basic language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

### CTEC 180. Introduction to Networking 3-4 Credits (3-4)

This course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. Course includes the principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations to build simple LANs, perform basic configurations for routers and switches. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

## CTEC 185. Routing and Switching Essentials 3-4 Credits (3-4)

This course covers the architecture, components, and operations of routers and switches in a small network. Students learn how to configure routers and switches for basic functionality. Course demonstrates how to configure and troubleshoot routers and switches to resolve common issues with RIPv1, RIPng, single area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. May be repeated up to 8 credits.

**Prerequisite(s)/Corequisite(s):** CTEC 180 or OECS 261. Restricted to Las Cruces campus only.

### CTEC 220. Internship

#### 1-3 Credits (1-3)

Work experience, directly related to a student's field of study, that provides an opportunity to explore career options while experiencing hands-on application, knowledge, and theory learned in the classroom. May be repeated up to 6 credits. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Las Cruces campus only.

Prerequisite(s): (CTEC 120 or OECS 185) AND (CTEC 130 or OECS 204), AND (CTEC 180 or OECS 261).

## CTEC 230. Introduction to Linux Server Administration 1-3 Credits (1-3)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Linux Server(s). It provides in-depth, hands-on training for IT professionals responsible for the planning, implementation, management, and support of Linux Server operating system(s). May be repeated up to 6 credits.

**Prerequisite(s)/Corequisite(s):** CTEC 130 or OECS 204. Restricted to Community Colleges campuses only.

## CTEC 235. Introduction to Windows Server Administration 3 Credits (3)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Window Server(s). It provides in-depth, hands-on training for IT professionals responsible for the planning, implementation, management, and support of Windows Server operating system(s).

**Prerequisite(s)/Corequisite(s):** CTEC 135 or OECS 207. Restricted to Las Cruces campus only.

## CTEC 240. Fundamentals of Database Management 3 Credits (3)

Exploration of database management using SQL and PL/SQL to extend and automate SQL in administering database systems. Students will create and work with projects which challenge them to enhance the SQL of a database solution for a business or organization. May be repeated up to 6 credits. Restricted to Las Cruces campus only.

Prerequisite(s): CTEC 145.

## CTEC 245. Fundamentals of Cloud Based Data Systems 1-3 Credits (1-3)

Introduction to the techniques and tools required to develop database driven web applications. The course teaches students how to design, develop, and deploy efficient and responsive, database-driven web applications using Oracle Application Express. May be repeated up to 6 credits

Prerequisite(s)/Corequisite(s): CTEC 240. Restricted to Community Colleges campuses only.

#### CTEC 255. Special Topics

#### 1-3 Credits (1-3)

Topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

#### CTEC 280. Scaling Networks

#### 3-4 Credits (3-4)

This course covers the architecture, components, and operations of routers and switches in WLANs and complex networks. Students learn how to configure routers and switches for advanced functionality and to resolve common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks. May be repeated up to 8 credits.

**Prerequisite(s)/Corequisite(s):** CTEC 185 or OECS 262. Restricted to Las Cruces campus only.

#### CTEC 285. Connecting Networks

#### 3-4 Credits (3-4)

This course covers WAN technologies and network services required by converged applications in a complex network. Students learn about selection criteria of network devices, VLANs and WAN technologies to meet network requirements to resolve common issues with data link protocols. May be repeated up to 8 credits.

**Prerequisite(s)/Corequisite(s):** CTEC 280 or OECS 263. Restricted to Las Cruces campus only.

#### CTEC 290. Network Security

#### 3-4 Credits (3-4)

Fundamentals of design and implementation of network security solutions that will reduce the risk of system vulnerability. Topics include: threats, attacks, vulnerabilities, tools, architecture, design, access management, risk management, and cryptography. May be repeated up to 8 credits.

**Prerequisite(s)/Corequisite(s)**: (CTEC 120 or OECS 185), AND (CTEC 180 or OECS 261). Restricted to Las Cruces campus only.

#### CTEC 299. Independent Study

#### 1-4 Credits (1-4)

Specific subject to be determined based upon student need. May be repeated up to 8 credits. Restricted to Community Colleges campuses only.

# CTFM-CLTHNG/TXTLS/FSHN MRCHDSG (CTFM)

#### CTFM 1110. Fundamentals of Fashion

#### 3 Credits (3)

Survey of the fashion business from fiber to end product.

#### CTFM 2120. Fashion Illustration

#### 3 Credits (1+4P)

This course explores aspects of fashion illustration, from drawing basic fashion figures to producing finished professional illustrations in color. This course provides the opportunity for students to integrate their fashion design development with computer-aided systems. The emphasis is on fashion innovation and concept design exploration enhanced by computer applications. May be repeated up to 3 credits.. Prerequisites: ARTS 1145G and CTFM 1110

#### CTFM 2130. Concepts in Apparel Construction

#### 3 Credits (1+4P)

Students are introduced to professional standard sewing techniques and apparel construction. The techniques learned are applied to produce finished garments. Restricted to: FCSE,CTFM majors. Restricted to Las Cruces campus only.

#### CTFM 2990. Fashion Practicum

#### 1-3 Credits (1-3)

Applied field experience in the related areas of apparel design, fashion merchandising, and textile science. May be repeated up to 3 credits. Restricted to: CTFM majors. Restricted to Las Cruces campus only.

## **DANC-DANCE (DANC)**

#### **DANC 1110G. Dance Appreciation**

#### 3 Credits (3)

This course introduces the student to the diverse elements that make up the world of dance, including a broad historic overview,roles of the dancer, choreographer and audience, and the evolution of the major genres. Students will learn the fundamentals of dance technique, dance history, and a variety of dance aesthetics. Restricted to: Main campus only.

#### DANC 1130. Ballet I

#### 1 Credit (1)

This course is the beginning level of ballet technique. Students learn the basic fundamentally and performance skills of ballet techniques, which may include flexibility, strength, body alignment, coordination, range of motion, vocabulary, and musicality. May be repeated for a maximum of 2 credits.

### DANC 1131. Introduction to Ballroom Dance

#### 1 Credit (1)

Introduction to ballroom dance for non dance majors. Students will learn basic ballroom technique and partnering work. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

#### **DANC 1135. Introduction to Argentine Tango**

#### 1 Credit (1)

Introduction to skills and techniques of Argentine Tango.

#### DANC 1140. Flamenco I

#### 1 Credit (1)

This course introduces the student to the art of flamenco and its cultural features and significance. Students will learn the fundamentals of this art form and introductory techniques and skills, which may include handwork, footwork, postures, and specific dances. May be repeated for a maximum of 2 credits.

#### DANC 1150. Modern Dance I

#### 1 Credit (1)

Modern Dance techniques and styles. Students are introduced to proper warm-up techniques, body alignment, control and flexibility. Students work with various rhythms and combinations of movements. The course emphasizes dance technique and creative experience. The history, terminology and philosophy of Modern Dance are also discussed. May be repeated for a maximum of 2 credits.

### DANC 1155. Introduction to Hip-Hop Dance 1 Credit (1)

This course provides an atmosphere of safety and encouragement in which students can express creativity and individuality through hip-hop dance. No previous dance experience required. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

#### DANC 1185. Beginning Country Western Dance 1 Credit (1)

Beginning County Western dance, including Country Western two-step, nightclub two-step, polka, and Country Western line dance. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

### DANC 1220. Introduction Latin Social Dance

Introduction to Latin social dance for non dance majors. Students will learn basic Latin dance technique and partnering work. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

### DANC 1235. Intro to West Coast Sw

#### 1 Credit (1)

Students will learn to dance the smooth style of Swing. The West Coast Swing may be danced to ANY style of music that has a beat (Country, R&B, Hip Hop, Disco, House). Also featured is the Hustle (fast paced and exhilarating). May be repeated up to 4 credits. Restricted to Las Cruces campus only.

### DANC 1460. Dance for Musical Theater I

#### 1 Credit (1)

This course provides students with an understanding of the Tap and Jazz Dance technique for use in Musical Theater and other performance genres at the beginning level. This course is designed for students to gain knowledge and understanding of Tap and Jazz Dance as art forms. May be repeated up to 2 credits.

#### DANC 2114. Dance Sport I

### 1 Credit (1)

Performance-based, team formation dance in a variety of Latin and ballroom dances. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

#### DANC 2130. Ballet II

### 2 Credits (2)

Intermediate level of ballet technique; Introduction of more advanced Ballet vocabulary at barre/center work; increase flexibility, strength, body alignment, and coordination for practice of steps/combinations with variations in timing and changes of facing. Restricted to Las Cruces campus only. May be repeated up to 4 credits.

#### DANC 2130L. Ballet Technique II Lab 1 Credit (1)

This course is designed for the acquisition of intermediate level ballet technique and skill development. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

#### DANC 2140. Flamenco II

#### 2 Credits (2)

The structure of flamenco through choreographies that represent the basic flamenco dance forms: Fandangos de Huelva, Alegrias, Solea par Bulerias, and Tientos/Tangos. The course will also cover intermediate flamenco technique including footwork, palm as (hand claps), braceo (movement of the arms), and floreo (movement of the hands) May be repeated up to 8 credits. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 1140.

#### DANC 2140L. Flamenco Dance II Lab

#### 1 Credit (1)

This course is designed for the acquisition of intermediate level Flamenco dance technique and skill development. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 1140 or instructor permission.

#### DANC 2142. Classical Spanish II

#### 2 Credits (1+3P)

The study of theory, techniques, and practice of Classical Spanish at the intermediate level. Includes historical and cultural contexts of this art form. May be repeated up to 8 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 1140.

#### DANC 2142L. Spanish Dance II Lab

#### 1 Credit (1P)

This course is designed for the acquisition of intermediate level Spanish dance technique and skill development. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

#### DANC 2150. Modern Dance II

#### 2 Credits (2)

Modern II is designed to further the student's abilities in modern dance technique, to enhance efficient use of weight and momentum, to release held patterns in the body's mechanics, to enrich spatial awareness, and to begin work on performance techniques. May be repeated up to 4 credits.

### DANC 2150L. Modern Dance Technique II Lab

#### 1 Credit (1P)

This course is designed for the acquisition of intermediate level modern dance technique and skill development. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

### DANC 2155. Hip Hop Dance Ensemble I

#### 1 Credit (1

Performance-based instruction for students pursuing a career in hip hop dance. Instruction includes dance repertory and choreography for stage, commercial/industry, and competitive dance areas. May be repeated up to 4 credits. Consent of Instructor required.

#### DANC 2157. Intermediate Hip-Hop Dance

### 2 Credits (2)

This course is for students who have experience in Hip-Hop dance. The movement material will cover West coast and Southern styles with the inclusion of the history and evolution of Hip-Hop dance. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

### DANC 2161. Tap Dance II

#### 1 Credit (1)

Continued study of skills and techniques of tap dance at the advanced level. May be repeated for a maximum of 2 credits.

Prerequisite: DANC 1161 or consent of instructor.

#### DANC 2250. Contemporary Dance Ensemble I 1 Credit (1)

Performance-based instruction for students pursuing a career in contemporary dance. Instruction includes contemporary dance repertory and choreography for stage, outdoor arenas, and site-specific areas. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

#### DANC 2251. Spanish Dance Ensembles I 1 Credit (1)

Performance-based instruction for students pursuing a career in dance with an emphasis in Spanish Dance. Instruction includes dance repertory and choreography for stage, outdoor arenas, and site-specific areas. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

## DANC 2265. Principles of Choreography I 3 Credits (3)

Solo dance choreography technique. The course must be passed with a grade of C or higher. Offered the Fall of even years only. Consent of Instructor required.

#### DANC 2270. Improvisation I

#### 2 Credits (2)

Development of movement improvisational skills with complex examination of improvisational structures. Restricted to Las Cruces campus only.

### DANC 2310. Bronze American Rhythm

#### 2 Credits (2)

Bronze level American Rhythm patterns, techniques, and partnering with emphasis on elements of dance. May be repeated up to 6 credits.

#### DANC 2311. Bronze American Smooth

#### 2 Credits (2)

Bronze level American Smooth patterns, technique, and partnering with an emphasis on the elements of dance. May be repeated up to 4 credits.

### DANC 2320. Bronze International Latin

### 2 Credits (2)

This is the style of Latin dance that is danced around the globe and is featured in the World DanceSport Championships. Students will learn the Bronze Level figures and techniques in four (4) International Style dances: Rumba, Cha Cha, Samba & Jive. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

## DANC 2321. Bronze International Standard 2 Credits (2)

This is the style of Ballroom dance that is performed around the globe and is featured in the World DanceSport Championships. Learn the Bronze Level figures and techniques in five (5) International Style dances: Waltz, Tango, Viennese Waltz, Foxtrot & Quickstep. Students will focus on understanding technical elements of dance, memorizing and performing routines. May be repeated up to 4 credits.

## DANC 2460. Dance for Musical Theater II 2 Credits (2)

This course provides students with an understanding of the Tap and Jazz Dance technique for use in Musical Theater and other performance genres at the intermediate level. This course is designed for students to gain knowledge and understanding of Tap and Jazz Dance as art forms. May be repeated up to 4 credits. Consent of Instructor required.

### Prerequisite(s): DANC 1460 or consent of instructor.

### **DAS-DENTAL ASSISTING (DAS)**

## DAS 101. Introduction to Dental Assisting 2 Credits (2)

An introduction to the duties and responsibilities of a dental assistant. Includes brief lessons on head and neck anatomy, chair side assisting, sterilization techniques, dental office emergencies, and dental office management. Restricted to: Community Colleges only.

### DAS 111. Bio-Dental Science

#### 4 Credits (3+3P)

An introduction to biomedical and dental sciences with emphasis on head and neck anatomy and tooth morphology. Includes microbiology, general anatomy and physiology, histology and embryology of the oral cavity, pathology and pharmacology as they relate to dentistry.

Corequisite(s): DAS 113, DAS 115, and DAS 117.

Prerequisite(s)/Corequisite(s): PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

#### DAS 113. Dental Assisting I

#### 4 Credits (2+6P)

Introduction to chair side assisting procedures, instrumentation, infection control, equipment safety and maintenance, dental office emergencies, and management of pain and anxieties.

Corequisite(s): DAS 111, DAS 115, and DAS 117.

Prerequisite(s)/Corequisite(s): PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

### DAS 115. Dental Radiology

#### 3 Credits (2+3P)

Radiation physics, hygiene, and safety theories. Emphasis on the fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, and other ancillary radiographic techniques.

Corequisite(s): DAS 111, DAS 113, and DAS 117.

Prerequisite(s)/Corequisite(s): PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

#### DAS 117. Dental Materials

#### 3 Credits (2+3P)

Composition, chemical and physical properties, manipulation and uses of dental materials. Laboratory experiences include the application and manipulation of various materials used in dentistry.

Corequisite(s): DAS 111, DAS 113, and DAS 115.

Prerequisite(s)/Corequisite(s): PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

### DAS 123. Dental Assisting Practicum

#### 6 Credits (1+15P)

This course is the clinical component of the program that combines general practice and experiences in the work place. Seminar topics focus on the practicum experiences and critique of performance. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117.

Corequisite(s): DAS 125, DAS 127, and DAS 129.

#### **DAS 125. Professional Concepts**

#### 3 Credits (3)

Emphasis on the development of professionalism for the dental office. Includes oral communication, psychology, patient relations, problemsolving skills, stress management, and employability in addition to dental jurisprudence and ethics. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

**Prerequisite(s):** DAS 111, DAS 113, DAS 115, and DAS 117. **Corequisite(s):** DAS 123, DAS 127, and DAS 129.

#### DAS 127. Dental Office Management

#### 2 Credits (2)

This capstone course is an introduction to business office procedures, including telephone management, appointment control, accounts payable, completion of third party reimbursement forms, inventory control data entry for charges and payments, management recall, basic dental computer software and operating basic business equipment. Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

**Prerequisite(s):** DAS 111, DAS 113, DAS 115, and DAS 117. **Corequisite(s):** DAS 123, DAS 125, and DAS 129.

#### DAS 129. Preventive Dentistry

#### 2 Credits (2)

Prevention of dental diseases, oral hygiene instruction, fluoride, community dental health, and nutrition. Development, implementation and evaluation of a community dental health project. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

**Prerequisite(s):** DAS 111, DAS 113, DAS 115, and DAS 117. **Corequisite(s):** DAS 123, DAS 125, and DAS 127.

### DAS 130. Dental Assisting II

#### 4 Credits (2+6P)

Continuation of chair side assisting skills and techniques with a major emphasis on four-handed dentistry. This capstone course includes specialties within dentistry and expanded chair side functions. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

**Prerequisite(s):** DAS 111, DAS 113, DAS 115, DAS 117, DAS 123, DAS 125, DAS 127, and DAS 129.

#### DAS 131. Dental Office Management I

#### 3 Credits (3)

Introduction to the field of dental office management with emphasis placed on professional verbal and written communication skills utilized within the dental office. Content includes dental terminology, charting, and back office experience as they relate to dental reception and management.

**Prerequisite(s)/Corequisite(s)**: DAS 101, AHS 120, and AHS 202. Prerequisite(s): ENGL 1110G. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

#### DAS 133. Dental Office Management II

#### 3 Credits (3)

Places emphasis on computer programs specifically designed for dental office management (Dentrix, Sof Dent, etc.) Expanded course content on oral communication and telephone skills, appointment scheduling, patient relations, stress management solutions, and comprehensive critical thinking/problem solving skills.

**Prerequisite(s)/Corequisite(s):** AHS 202. Prerequisite(s): ENGL 1110G, DAS 101, and AHS 120. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

#### DAS 155. Special Topics

#### 1-6 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

# DHYG - DENTAL HYGIENE/HYGIENIST (DHYG)

### DHYG 110. Preclinical Dental Hygiene

#### 3 Credits (3)

Basic scientific principles and current theory, prevention of disease transmission, ethical and professional treatment of patients, clinical learning preparation, and introduction to comprehensive patient care. Offered concurrently with DHYG 112 to provide dental hygiene students with introductory knowledge, skills and attitudes to function in the clinical setting. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 112. Preclinical Dental Hygiene Lab 3 Credits (12P)

Clinical application to basic theories and procedures used in dental hygiene practice. Techniques of instrumentation used in performing diagnostic, preventive and therapeutic services utilized when providing comprehensive patient care. Student will practice these techniques on manikins and student partners in the clinic. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 114. Oral Histology and Embryology 2 Credits (2)

Introduction and description of general histology and embryology with emphasis on the microscopic structures of enamel, dentin, pulp, cementum, periodontal ligament, bone, oral mucosa, epithelial attachment and development of orofacial structures. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 116. Head and Neck Anatomy 3 Credits (3)

Comprehensive study of the anatomy of the head and neck regions, including skeletal, nervous, circulatory, lymphatic, and muscular systems. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

### DHYG 117. Dental Anatomy

#### 2 Credits (2+1P)

A detailed study of nomenclature, morphologic characteristics, and physiologic relationships of human primary and permanent teeth as related to the clinical practice of dental hygiene. Laboratory activities develop observation and dexterity skills. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

#### DHYG 118. Dental Radiology 3 Credits (3+4P)

Study of radiation physics, hygiene and safety theories. Fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, ancillary radiographic techniques and application to dental hygiene treatment. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 120. Dental Hygiene Theory I 3 Credits (3)

Continuation of the theoretical basis for dental hygiene clinical practice. Emphasis on emergency care, planning dental hygiene care, health promotion and disease prevention, oral rehabilitation and care of appliances, modifications of dental hygiene care through the life-span, and an introduction to medically comprised patients. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 122. Clinical Dental Hygiene I 3 Credits (16P)

Application of dental hygiene procedures on a variety of clinical patients under direct supervision of faculty. Emphasis on patient assessment and diagnosis, treatment procedures, appointment planning and prevention techniques. Theory is simultaneously related to practical experience. Offered concurrently with DHYG 120. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 124. General and Oral Pathology 3 Credits (3)

Introduction to general pathology with focused study of diseases and disorders of the oral cavity and their interrelationship with body systems; developmental anomalies of the teeth and jaws; manifestations of disease in the oral cavity, head and neck. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

### DHYG 126. Periodontology

#### 3 Credits (3)

Study of normal and diseased periodontium to include the structural, functional and environmental factors. Emphasis on etiology, pathology, evaluation of disease, treatment modalities, and therapeutic and preventative periodontics relative to the hygienist's role as a co-therapist in a contemporary practice setting. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

#### DHYG 132. Clinical Dental Hygiene II 2 Credits (2)

Continuation of clinical skills, patient assessment and diagnosis, treatment and appointment planning, preventive techniques and application of dental hygiene procedures at an intermediate level under the direct supervision of faculty. Clinical-based instruction helps students synthesize new knowledge, apply previous knowledge, and gain experience managing the workflow. Theory is simultaneously related to practical experience. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only. Prerequisite(s): 'C' or above in DHYG 120, DHYG 122, DHYG 124,

## Corequisite(s): DHYG 218. DHYG 134. Dental Materials

DHYG 126, DHYG 134.

3 Credits (2+2P)

Study of the composition, chemical and physical properties, manipulations, and uses of dental materials. Emphasis on materials and procedures for which the dental hygienist is directly responsible. Laboratory experiences include application and manipulation of various materials used in dentistry. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 210. Dental Hygiene Theory III 2 Credits (2)

Advanced theory of dental hygiene and information on periodontal therapies relative to the hygienist's role as a co-therapist in clinical practice. Continuation of the study of dental hygiene care for medically comprised patients and an introduction to special needs patients. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 212. Clinical Dental Hygiene III 4 Credits (16P)

Continuation of clinical skills, patient assessment and diagnosis, treatment and appointment planning, preventive techniques and applications of dental hygiene procedures at the intermediate to competent level under supervision of faculty. Emphasis on dental hygiene treatment for the medically compromised and periodontally involved patients. Theory is simultaneously related to practical experience. Offered concurrently with DHYG 210. May be repeated up to 4 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 214. Dental Pharmacology 3 Credits (3)

Study of the pharmacologic aspects of drugs and drug groups with which the dentist and dental hygienist are directly and indirectly concerned. Emphasis is placed on nomenclature, origin, physical and chemical properties, preparation, modes of administration and effects of drugs upon the body systems. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 215. Medical and Dental Emergencies 2 Credits (2)

This course provides an overview of medical and dental emergencies encountered most frequently in the dental setting. It also provides the student with knowledge and techniques on how to address those emergencies should they occur. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 217. Research Methodology 2 Credits (2)

This course provides an introduction to the principles and application of research methods in social, behavioral and medical research. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

### DHYG 218. Pain and Anxiety Management 2 Credits (2)

Study of the application of various physical, chemical, and psychological modalities to the prevention and treatment of preoperative and postoperative patient anxiety and pain. Emphasis on administration of local anesthesia and nitrous oxide. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 219. Pain and Anxiety Management Clinical 1 Credit (4P)

Clinical application of concepts learned in DHYG 218. Emphasis on the administration and techniques of local anesthesia and monitoring nitrous oxide. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

Prerequisite(s): DHYG 218.

## DHYG 220. Dental Hygiene Theory IV 3 Credits (3)

Theoretical preparation for advanced clinical practice. In-depth study of dental hygiene care for patients with special needs. Case Study presentations and a Board Review are utilized to demonstrate the synthesis of comprehensive dental hygiene knowledge, skills and attitudes. The most current dental and dental hygiene technology will be reviewed as it related to clinical practice. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 222. Clinical Dental Hygiene IV 4 Credits (16P)

Clinical sessions combine basic and advanced dental hygiene skills with time management techniques essential for private practice. Comprehensive patient care to include assessment, dental hygiene diagnosis, treatment planning, implementation and evaluation of dental care, nonsurgical periodontal therapy, adjunct clinical procedures, ultrasonic instrumentation, patient management, sealants, and comprehensive programs for control of oral diseases will be emphasized. Theory is simultaneously related to practical experience. Students are encouraged to develop independent decision-making with minimal faculty supervision. May be repeated up to 4 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

### DHYG 224. Principles of Practice 2 Credits (2)

Examination of the dental hygienist's role in both traditional and non-traditional employment settings. Career planning, resume preparation and interviewing are practices. An understanding of the law, professional ethics of dental hygiene and the need for lifelong learning are emphasized. Future roles of the dental hygienist and emerging issues in dental hygiene will be explored. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 225. Dental Public Health Education 3 Credits (3)

Study of principles and concepts of community public health and dental health education. Emphasis on dental epidemiology and statistical methods, community assessment, educational planning, implementation, and evaluation, scientific review of literature, and classroom presentation. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 255. Special Topics in Dental Hygiene 1-6 Credits (1-6)

Study of special topics related to the advanced practice of dental hygiene. May include educational methodology as well as applications in clinical practice, research, or community service. Consent of instructor required. Restricted to: Community Colleges only. Restricted to DHYG majors.

# DMS-DIAGNOSTIC MED SONOGRAPHY (DMS)

## DMS 100. Introduction to Clinical Practicum 1 Credit (1)

Introduction to working in the medical environment. Includes preparation for clinical internship and observation hours in the ultrasound department. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 101. Introduction Sonography/Patient Care 2 Credits (2)

Introduction to the careers in sonography, terminology, medical ethics, scanning planes, applications of ultrasound, professional standards and patient care. May be repeated up to 2 credits. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 116. Vascular Technology I 2 Credits (2)

Review of basic ultrasound physics and principles, peripheral vascular anatomy, hemodynamics, Doppler evaluation, peripheral vascular scanning techniques, physiologic testing and the carotid arteries and the peripheral vascular system. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 116 L. Vascular Technology I Lab 1 Credit (2P)

Includes protocol development, scanning techniques, recognition of anatomical relationships and the normal ultrasound appearance of the carotid arteries and peripheral vasculature utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

#### DMS 130. Pelvic Sonography

#### 1 Credit (1)

Includes the anatomy, sectional anatomy and normal physiology of the pelvic structures; including the uterus, ovaries, prostate, pelvic muscles, lower GI, appendix and vessels as well as scanning techniques, sonographic appearance and Doppler evaluation of the pelvis. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

#### DMS 130 L. Pelvic Sonography Lab 1 Credit (2P)

Includes protocol development, scanning techniques, recognition of anatomical relationships and the normal ultrasound appearance of the pelvic structures including the uterus, ovaries, prostate, lower gastrointestinal system, appendix and pelvic muscles utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 140. Abdominal Sonography 3 Credits (3)

Includes the anatomy, sectional anatomy and normal physiology of prevertebral vessels, liver, biliary system, pancreas, upper gastrointestinal system, kidneys, adrenals, and spleen as well as scanning techniques, sonographic appearance and Doppler evaluation of the deep abdominal organs. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

#### DMS 140 L. Abdominal Sonography Lab 1 Credit (4P)

Includes protocol development, scanning techniques, recognition of anatomical relationships and the normal ultrasound appearance of prevertebral vessels, liver, biliary system, pancreas, upper gastrointestinal system, kidneys and spleen utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 150. Sonographic Principles and Instrumentation I 1 Credit (1)

Includes the fundamental properties and mathematical relationships between variables of wave parameters, acoustic variables, attenuation, pulsed wave operation, transducers, system operation, Doppler, and artifacts utilizing real-time sonographic equipment. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 160. 1st Trimester Obstetric Sonography 1 Credit (1)

Includes the embryology, anatomy, sectional anatomy, normal physiology, biometrics, assessment, and sonographic appearance of the 1st trimester fetus, placenta, uterus and adnexa as well as scanning techniques according to recognized protocols. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 165. 2nd/3rd Trimester Obstetric Sonography 1 Credit (1)

Includes the anatomy, sectional anatomy, normal physiology, biometrics, assessment, and sonographic appearance of the 2nd and 3rd trimester fetus, placenta, uterus, and adnexa as well as scanning techniques according to recognized protocols. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

#### DMS 170. Clinical Practicum I 2 Credits (8-10P)

Development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at the developmental level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under direct supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

### DMS 180. Clinical Practicum II

#### 5 Credits (30P)

Development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at the beginner level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continue observation, assistance and performance of patient care and sonographic duties under direct supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 201. Applied Sonographic Procedures 1 Credit (8P)

Advances scanning skills, system optimization, anatomic recognition of abdominal and pelvic structures utilizing real-time sonographic equipment including Doppler. Includes sonographic evaluation of the first trimester pregnancy and normal fetus. Restricted to: DMS majors. Restricted to Las Cruces campus only.

### DMS 216. Vascular Technology II 2 Credits (2)

Includes the pathology and pathophysiology of the vascular system, scanning techniques, clinical presentation, ultrasound appearance and Doppler evaluation seen with pathological conditions of the carotid arteries, deep and peripheral vascular systems. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

#### DMS 216 L. Vascular Technology II Lab 1 Credit (2P)

Includes progressive development of skills following recognized protocols, scanning techniques, recognition of anatomical relationships with differentiation of normal and abnormal ultrasound appearance of the carotid arteries, deep and peripheral vascular systems utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

#### DMS 226. Sonographic Case Studies I 1 Credit (1)

Includes integration of didactic knowledge, clinical presentation, laboratory values, sonographic appearance and related medical imaging of a variety of pathological conditions through a variety of case analysis and presentations. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

#### DMS 227. Sonographic Case Studies II 1 Credit (1)

Continuation of DMS 226, integration of didactic knowledge, clinical presentation, laboratory values, sonographic appearance and related medical imaging of a variety of pathological conditions through a variety of case analysis and presentations. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 230. Gynecologic Pathology 2 Credits (2)

Includes the pathology and pathophysiology of the female reproductive system, scanning techniques, clinical presentation, ultrasound appearance and Doppler evaluation seen with pathological conditions of the uterus, ovaries, and adnexa. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

### DMS 240. Abdominal Pathology I

#### 2 Credits (2)

Includes the pathology and pathophysiology of abdominal structures of the prevertebral vessels, liver, biliary system, pancreas, spleen and gastrointestinal system; scanning techniques, ultrasound appearance, clinical presentation and Doppler evaluation seen with pathological conditions. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 245. Abdominal Pathology II 2 Credits (2)

Includes the pathology and pathophysiology of abdominal structures of the genitourinary system, spleen, retroperitoneum, adrenal glands, abdominal wall and prostate; scanning techniques, ultrasound appearance, clinical presentation and Doppler evaluation seen with pathological conditions. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

### DMS 248. Pediatric Sonography

#### 2 Credits (2)

Includes the anatomy of the brain, skull, spine, hips, and normal developmental changes as well as pathology and pathophysiology of specific conditions that affect the premature infant, newborn and pediatric population across a variety of body systems. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 250. Sonographic Principles and Instrumentation II 3 Credits (3)

Includes properties of sound and its use in diagnostic imaging, artifacts, system operation, Doppler, basic hemodynamics, image optimization, bio effects, quality assurance, and new technologies in ultrasound imaging. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 255. Vascular Physics 2 Credits (2)

Includes a review of sound properties and its use in diagnostic imaging, artifacts, system operation, Doppler, image optimization, bio effects, quality assurance, and in-depth application of fluid properties and hemodynamics in vascular ultrasound imaging. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

#### DMS 260. High Risk Obstetric Sonography 3 Credits (3)

Includes congenital malformations of the developing fetus, high risk pregnancies, multiple gestation, maternal conditions and invasive procedures. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

#### DMS 270. Clinical Practicum III 5 Credits (20P)

Continued development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at an intermediate level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under limited supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

#### DMS 280. Clinical Practicum IV 5 Credits (20P)

Application of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at a proficient level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under limited supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

#### DMS 290. Small Parts & Superficial Structures 2 Credits (2)

Includes anatomy, pathology and pathophysiology, protocol development, scanning techniques, recognition of anatomical structures and the normal and pathological ultrasound appearance of the breast, thyroid, neck, scrotum, non-cardiac chest and musculoskeletal ultrasound. Restricted to: DMS majors. Restricted to Community Colleges campuses

### DMS 291. Registry Preparation: OB/GYN

#### 1 Credit (1)

Registry preparation mock examinations over materials covered in Obstetric and Gynecological ultrasound. Students must pass this course with a 74% or better OR pass national certification in OB/GYN Sonography. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

### DMS 292. Registry Preparation: Abdomen 1 Credit (1)

Registry preparation mock examinations over materials covered in abdominal ultrasound including small parts and superficial structures. Students must pass this course with a 74% or better OR pass ARDMS national certification exam in Abdominal Sonography. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

#### DMS 293. Registry Preparation: Vascular 1 Credit (1)

Registry preparation mock examinations over materials covered in vascular ultrasound. Students must pass this course with a 74% or better OR pass national certification in Vascular Technology. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

### **DRFT-DRAFTING (DRFT)**

#### DRFT 100. Introduction to Architecture, Engineering, & Construction 3 Credits (3)

Introduction to and exploration of careers in the fields of architecture, engineering, and construction. Specific fields to include: architecture, civil engineering, mechanical engineering, structural engineering, engineering technology, residential construction, commercial construction, geographical information systems (GIS), surveying, sustainable design, and green building. Crosslisted with: ARCH 1310. Restricted to Community Colleges campuses

#### DRFT 101. Introduction to Drafting and Design Technologies 1 Credit (1)

Professional and student organizations associated with the Drafting and Design Technologies program, degree requirements, employment skills and work habits, and university and college policies and procedures will be explored. Students will be introduced to the current learning management system and career-readiness certification. Restricted to Community Colleges only.

### **DRFT 105. Technical Drawing for Industry** 3 Credits (2+2P)

Technical sketching, basic CAD, and interpretation of drawings with visualization, speed and accuracy highly emphasized. Areas of focus include various trades such as machine parts, welding, heating and cooling, and general building sketches/plan interpretation.

#### DRFT 108. Drafting Concepts/Descriptive Geometry 2 Credits (1+2P)

Basic manual drafting skills, sketching, terminology and visualization. Graphical solutions utilizing applied concepts of space, planar, linear and point analyses. Metric and S.I. units introduced.

#### **DRFT 109. Computer Drafting Fundamentals** 3 Credits (2+2P)

Introduction to principles and fundamentals of drafting using both manual drawing techniques and computer-aided drafting (CAD) applications. May be repeated up to 3 credits. Crosslisted with: ET 109 and C E 109. Restricted to Community Colleges campuses only.

### DRFT 112. Drafting Concepts/Computer Drafting Fundamentals I 4 Credits (2+4P)

Basic drafting skills, terminology, and visualization. Introduction to principles and fundamentals of computer-aided drafting. Same as

Prerequisites: OECS 207, OECS 125 or consent of instructor.

#### DRFT 113. Drafting Concepts/Computer Drafting Fundamentals II 4 Credits (2+4P)

Drafting for mechanical/industrial applications; machine part detailing, assemblies in orthographic, isometric, auxiliary, oblique, and sectional views. Two-dimensional AutoCAD with introduction to 3-D AutoCAD. Same as ET 216. Restricted to: Community Colleges only.

Prerequisite: DRFT 112.

#### **DRFT 114. Introduction to Solid Modeling** 3 Credits (2+2P)

2D mechanical drafting and 3D mechanical solid modeling utilizing the latest version of AutoCAD software. Industry dimensioning and annotation standards will be emphasized. 2D multi-view working drawings, 3D solid models, and basic 3D model assemblies will be introduced. Restricted to Community Colleges campuses only. Prerequisite(s): DRFT 109.

#### **DRFT 115. General Construction Safety**

#### 3 Credits (3)

Overview of general construction safety related to building, highway and road construction, and surveying field work for entry-level individuals. Students will also have the opportunity to earn a 10-hour construction industry OSHA card. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

## DRFT 120. Survey Equipment Fundamentals 2 Credits (2)

Introduces the application and the setup to the following surveying equipment: Automatic Level, Total station, and Global Positioning Systems. Field safety knowledge is required. Restricted to Community Colleges only.

## DRFT 124. Introduction to Geometric Dimensioning and Tolerancing 3 Credits (2+2P)

Introduction to geometric dimensioning and tolerancing (GD&T) for the mechanical CAD drafting, solid modeling, mechanical engineering technology, mechanical engineering, and manufacturing industries. Related industry standard finishes and fasteners will also be introduced and explored.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

#### **DRFT 130. General Building Codes**

#### 3 Credits (2+2P)

Interpretation of the Building Code, local zoning codes, A.D.A. Standards and the Model Energy Code to study construction and design requirements and perform basic plan checking. Restricted to: Community Colleges only.

### DRFT 135. Electronics Drafting I

#### 3 Credits (2+2P)

Drafting as it relates to device symbols; wiring, cabling, harness diagrams and assembly drawings; integrated circuits and printed circuit boards; schematic, flow and logic diagrams; industrial controls and electric power fields. Drawings produced using various CAD software packages.

Prerequisites: DRFT 108 and DRFT 109.

### DRFT 143. Civil Drafting Fundamentals

#### 3 Credits (2+2P)

Introduction to drafting in the field of Civil Engineering. Drawings, projects, and terminologies related to topographic, contour drawings, plan and profiles, and street/highway layout. Crosslisted with: E T 143. Restricted to Community Colleges only.

Prerequisite(s): DRFT 109.

## DRFT 151. Construction Principles and Print Reading 3 Credits (2+2P)

Introduction to construction materials, methods, and basic cost estimating and print reading applicable in today's residential, commercial, and public works industry. Instruction by print reading and interpretation, field trips, and actual job-site visits and progress evaluation.

### DRFT 153. Survey Drafting Applications

#### 3 Credits (2+2P)

Introduction to drafting in the field of survey engineering. Drawings, projects and terminologies related to Point Data, topography, land/boundary surveys, legal descriptions and plat surveys. Using the current Autodesk software. Crosslisted with: SUR 143. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

## DRFT 160. Construction Take-Offs and Estimating 3 Credits (2+2P)

Computing and compiling materials and labor estimates from working drawings using various techniques common in general building construction and in accordance with standard specifications and estimating formats. Use of spreadsheets and estimating software introduced.

Prerequisite: DRFT 151.

#### **DRFT 163. Civil Infrastructure Detailing**

#### 3 Credits (2+2P)

Infrastructure detailing related to civil engineering projects including: ponding, roadway, sewer, and storm-water structures; concrete foundations; and related utility details. Restricted to Community Colleges campuses

Prerequisite(s): DRFT 109.

### DRFT 164. Intermediate Mechanical Drafting/Solid Modeling 3 Credits (2+2P)

Intermediate 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Autodesk Inventor software. The creation of 2D working drawings from 3D solid models will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), basic material properties, and industry standard fastening and manufacturing methods will be introduced.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

## DRFT 165. Introduction to Building Information Modeling 3 Credits (2+2P)

Introduction to Building Information Modeling (BIM) in the development of virtual 3D building models, construction documents, renderings and basic animations related to architectural, structural, and mechanical/electrical/plumbing building components. Utilizes the latest BIM technologies in the integration one, parametric BIM. Restricted to Community Colleges campuses only.

## DRFT 176. Solid Modeling, Rendering and Animation 3 Credits (2+2P)

Introduction to three dimensional drafting and solid modeling, rendering and animation for architecture and engineering fields. Material application, mapping, and scene lighting will be introduced. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

#### **DRFT 180. Residential Drafting**

#### 3 Credits (2+2P)

Basic residential drafting including, floor plans, foundation plans, sections, roof plans, exterior and interior elevations, and site plans. Applicable residential building and zoning codes, construction methods and materials, adaptable residential design, and drawing and sheet layout for architectural drafting will be introduced. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 109.

### DRFT 181. Commercial Drafting

#### 3 Credits (2+2P)

Drafting principles, plan coordination, and code analysis applicable in the development of working drawings for commercial, public, and industrial building projects. Students will utilize National Cad Standards, ADA Standards, and will be introduced to modern office practice. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s):** DRFT 109.

## DRFT 190. Finding and Maintaining Employment 2 Credits (2)

Techniques in self-evaluations, resume writing, application completion, job interviewing, and job retention. Exposure to work ethics, employee attitudes, and employer expectations.

## DRFT 204. Geographic Information Systems Technology 3 Credits (2+2P)

The use of digital information for which various digitized data creation methods are captured. Users will capture, store, analyze and manage spatially referenced data in a modeled mapping procedure. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### DRFT 214. Advanced Solid Modeling 3 Credits (2+2P)

Advanced 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Solidworks software. The creation of 2D working drawings from 3D solid models and the creation of 3D models for machining/manufacturing will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), material properties, and industry standard fastening and manufacturing methods will be further explored. **Prerequisite(s)/Corequisite(s):** DRFT 114. Restricted to Community Colleges campuses only.

## DRFT 222. Surveying Fundamentals 3 Credits (2+3P)

Theory and practice of geomatics as applied to plane surveying in the areas of linear measurements, angle measurements, area determination, differential and trigonometric leveling, and topographic mapping. Crosslisted with: SUR 222. Restricted to Community Colleges campuses only.

Prerequisite(s): MATH 1250G.

### DRFT 230. Building Systems Drafting

3 Credits (2+2P)

Development of working drawings for electrical, plumbing, and HVAC systems, for residential and commercial building through the applications of both 2D Drafting and 3D Building Information Modeling (BIM) techniques. Basics of project setup, National CAD Standards, ADA Standards, modern office practice, code analysis, as well as Sustainability and LEED for new construction. Restricted to: Community Colleges only. **Prerequisite(s):** DRFT 180 or DRFT 181.

## DRFT 231. Construction Methods and Equipment 3 Credits (2+2P)

Introduction to methods and equipment utilized in the construction industry including, common construction equipment, equipment utilization, equipment operating costs, site and earthwork, applicable specifications and testing, and related planning and safety considerations. Restricted to Community Colleges campuses only. **Prerequisite(s):** DRFT 151.

## DRFT 240. Structural Systems Drafting 3 Credits (2+2P)

Study of foundations, wall systems, floor systems and roof systems in residential, commercial and industrial design/construction. Produce structural drawings including foundation plans, wall and building sections, floor and roof framing plans, shop drawings and details; schedules, materials lists and specifications. Use of various software. May be repeated up to 3 credits.

**Prerequisite(s)/Corequisite(s):** DRFT 180 or DRFT 181. Restricted to Community Colleges campuses only.

### DRFT 242. Roadway Development Drafting

3 Credits (2+2P)

Advanced civil/survey technology and drafting related to roadway development. Emphasis is on relevant terminology, codes/standards, and the production of complex working drawings such as topographical/grading, drainage, master utilities, roadway P P/details/etc., according to agency standards. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 143.

### DRFT 243. Land Development Drafting

3 Credits (2+2P)

Advanced civil/survey technology and drafting related to land development. Emphasis is on relevant terminology codes/standards, and the production of complex working drawings such as subdivision plats, local utility and drainage plans, construction details roadway P P, etc., according to local development/ agency standards.

Prerequisite: DRFT 143 and DRFT 153.

## DRFT 250. Principles of Detailing and Design 3 Credits (2+2P)

Advanced practice in construction documentation in the development and coordination of working drawings & specifications. In particular, will utilize Architectural Graphic Standards, National CAD Standards, and ADA standards to develop detail drawings related to Architectural, Civil, Structural and Building Mechanical systems. Will also be introduced to basic principles, factors, and process of building design such as space planning, site analysis, and basic architectural programming. May be repeated up to 3 credits.

**Prerequisite(s)/Corequisite(s):** DRFT 180 or DRFT 181. Restricted to Community Colleges campuses only.

## DRFT 254. Spatial Data Processing 3 Credits (2+2P)

Utilizes the tools and technologies of GIS, processing volumes of geodata identifying a numerical, coded or listed map. Involves the analysis of spatial data from various diverse applications and place in a descriptive mapping process. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 204.

### DRFT 255. Independent Study

1-3 Credits (1-3)

Instructor-approved projects in drafting or related topics specific to the student's individual areas of interest and relevant to the drafting and graphics technology curriculum. Consent of instructor required. May be repeated for a maximum of 6 credits.

### DRFT 258. Introduction to Infraworks

3 Credits (2+2P)

Introduction to the utilization of Infraworks software for the conceptualization, optimization, and visualization of infrastructure projects in the context of the built and natural environment. Restricted to Community Colleges campuses

Prerequisite(s): DRFT 143.

## DRFT 261. Construction Scheduling and Project Management 3 Credits (2+2P)

Introduction to construction scheduling and project management. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 161.

## DRFT 265. Advanced Building Information Modeling Applications 3 Credits (2+2P)

Advanced applications of Building Information Modeling (BIM) including the creation of, and practice in collaborative work sets, data and design analyses, energy modeling and analysis, preliminary LEED analysis, construction take-offs & estimation, and construction animation, through use of various BIM and related software. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 165.

#### DRFT 274. GIS Theory and Analysis

#### 3 Credits (2+2P)

Analyzes the hypothesis in which location and spatial data sufficiently quantifies the appropriate statistical methodology. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 254.

## DRFT 276. Computer Rendering and Animation I 3 Credits (2+2P)

Introduction to technical applications of computer generated renderings and animations for the architecture and engineering fields. 3D models, photo-realistic renderings, and basic animation movie files will be produced utilizing industry standard modeling and animation software.

## DRFT 278. Advanced CAD Applications 3 Credits (2+2P)

Introduction to advanced CAD commands, applications, usage techniques, and user customization. the latest version of the National CAD Standards will also be explored. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

## DRFT 288. Portfolio Development 3 Credits (2+2P)

Production of a portfolio consisting of previously produced student work related to the student's individualized degree option. Process shall include the compilation and organization of working and presentation drawings, construction documents, BIM Models, and renderings/animations. Students will learn the basics of design layout and online portfolio documentation. Job search and resume preparation activities will also be required. Production of new material and content may also be required. This course is designed as a last semester course in the Drafting & Design curricula. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of Instructor.

#### **DRFT 290. Special Topics**

#### 1-4 Credits (1-4)

Topics subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

### **DRFT 291. Cooperative Experience**

#### 1-6 Credits (1-6)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student meets with advisor weekly. Graded S/U.

Prerequisite: consent of instructor.

## DRFT 295. Professional Development and Leadership DAGA 1 Credit (1)

Students gain experience in leadership, team building, performing community service, and membership and/or leadership in a student organization. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

### **E E-ELECTRICAL ENGINEERING (E E)**

## E E 100. Introduction to Electrical and Computer Engineering 4 Credits (3+3P)

Introduction to analog (DC) and digital electronics. Includes electric component descriptions and equations, Ohm's law, Kirchhoff's voltage and current laws, ideal op-amp circuits, Boolean algebra, design of combinational and sequential logic circuits and VHDL or VERILOG. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): C- or better in MATH 1250G.

### E E 112. Embedded Systems

#### 4 Credits (3+3P)

Introduction to programming through microcontroller-based projects. Extensive practice in writing computer programs to solve engineering problems with microcontrollers, sensors, and other peripheral devices. **Prerequisite(s)/Corequisite(s):** E E 100.

## E E 200. Linear Algebra, Probability and Statistics Applications 4 Credits (3+3P)

The theory of linear algebra (vectors and matrices) and probability (random variables and random processes) with application to electrical engineering. Computer programming to solve problems in linear algebra and probability.

Prerequisite(s): C- or better in E E 112 and MATH 1521G or MATH 1521H.

### E E 212. Introduction to Computer Organization

#### 4 Credits (3+3P)

Concepts of modern computer organization, CPU control, pipelining, memory hierarchies, memory mapping, hardware-software interface, and operating systems.

**Prerequisite(s)/Corequisite(s):** E E 112. Prerequisite(s): C- or better in E E 100 and MATH 1250G.

#### E E 230. Circuit Analysis and Introduction to Electronics 4 Credits (3+3P)

Circuit analysis techniques, RLC transients, phasors, filter response, and an introduction to discrete electronic devices.

**Prerequisite(s)/Corequisite(s):** PHYS 1320G. Prerequisite(s): C- or better in E E 100 and MATH 1521G or MATH 1521H.

## E E 240. Multivariate and Vector Calculus Applications 3 Credits (3)

Vector algebra, cylindrical and spherical coordinates, partial derivatives, multiple integrals. Calculus of vector functions through electrostatic applications. Divergence, gradient, curl, divergence theorem, Stokes's theorem, Coulomb's Law, Gauss's Law, electric field, electric potential. Applications in Matlab.

Prerequisite(s): C- or better in MATH 1521G or MATH 1521H and E E 112.

### **E T-ENGINEERING TECHNOLOGY (E T)**

#### ET 104. Soldering Techniques

#### 1 Credit (3P)

Fundamentals of soldering, desoldering, and quality inspection of printed circuit boards.

## E T 106. Drafting Concepts/Computer Drafting Fundamentals I 4 Credits (2+4P)

Basic drafting skills, terminology, and visualization. Introduction to principles and fundamentals of computer-aided drafting. Community Colleges only. Same as DRFT 112.

Prerequisite: OECS 125, OECS 207, or consent of instructor.

#### ET 109. Computer Drafting Fundamentals

#### 3 Credits (3+2P)

Crosslisted with: DRFT 109, C E 109 and SUR 109

#### ET 110. Introduction to 3-D Modeling (Solid Works)

#### 3 Credits (2+3P)

Introduction to SolidWorks, a 3-D modeling software. The foundation for designing mechanical parts and assemblies.

#### ET 120. Computation Software

#### 2-3 Credits (2-3)

The use of spreadsheet software in the field of engineering technology.

### ET 125. Introduction to Renewable Energy

#### 3 Credits (3)

Renewable energy systems, including topics in thermal-solar photovoltaic, wind, geothermal systems, and other current topics. Theory, practical applications, safety considerations and the economics of alternative renewable energy systems compared to conventional systems.

#### ET 153. Introduction to Computer Networks

#### 3 Credits (3)

Introduction to basic computer network fundamentals including International Open Systems Interconnect (OSI), the seven-layer model, and various networking hardware devices. Community Colleges only.

#### ET 154. Construction Methods and Communications

#### 3 Credits (3)

Blueprint reading, specifications, and introduction to materials used in construction.

#### ET 155. Network Operating Systems I

#### 3 Credits (3+1P)

Introduction to a computer network operating system. May not be used as part of an ET degree program on main campus. Restricted to: Community Colleges only.

Prerequisite(s): ET 120 or ET 122.

### E T 156. Introduction to Information Security

#### 2 Credits (2)

This course introduces information security terminology, historical evolution of digital security, types of PC and network system vulnerabilities and types of information loss. In addition, methods of information protection and integrity, intrusion detection, and recovery of data are introduced.

Prerequisite(s)/Corequisite(s): E T 120. Restricted to Community Colleges campuses only.

#### ET 160. Windows Fundamentals for IET

### 3 Credits (3)

Fundamental review of the Windows operating system including installation and upgrades as well as managing applications, files, folders, devices and maintenance.

#### ET 182. Digital Logic

#### 3 Credits (3)

The use of truth tables, Boolean equations, and diagrams to define, simplify, and implement logic-valued functions.

### ET 183. Applied DC Circuits

#### 3 Credits (2+2P)

Application of Ohm's law, Kirchhoff's laws, Thevenin's, and Norton's theorems to the analysis of DC passive circuits. Embedded Lab.

Prerequisite(s)/Corequisite(s): MATH 1220G.

#### ET 183 L. Applied DC Circuits Lab

#### 1 Credit (2P)

DC applied circuits lab.

Corequisite(s): ET 183.

#### ET 184. Applied AC Circuits

#### 3 Credits (2+2P)

Application of circuit laws and theorems to analysis of AC passive circuits. Resonant circuit, polyphase circuit and magnetic circuit topics are introduced. Embedded Lab.

Prerequisite(s)/Corequisite(s): MATH 1250G. Prerequisite(s): ET 183.

#### ET 184 L. Applied AC Circuits Lab

#### 1 Credit (2P)

AC applied circuits lab

Corequisite(s): ET 184.

#### ET 190. Applied Circuits

#### 4 Credits (3+2P)

Application of Ohm's law, Kirchhoff's laws, and Thevenin's theorems to the analysis of AC and DC passive circuits. Electronic circuit topics are introduced. Embedded lab.

Prerequisite(s)/Corequisite(s): MATH 1250G.

#### ET 191. Applied Circuits Laboratory

#### 1 Credit (2P)

**Applied Circuits Lab** 

#### ET 200. Special Topics

#### 1-3 Credits

Directed study or project. May be repeated for a maximum of 6 credits. Prerequisite: consent of department head.

#### ET 203. Computational Foundations

#### 3 Credits (3)

Fundamental concepts of various proof techniques. These concepts will be applied to the use of computer algorithms, programming languages and other engineering and technology applications.

Prerequisite(s): MATH 1250G and ET 262.

#### ET 210. Intermediate 3-D Modeling (Solid Works)

#### 3 Credits (3)

Intermediate 3-D modeling. Applied modeling of techniques to prepare for SolidWorks certification (CSWA).

Prerequisite(s): ET 110.

### ET 217. Manufacturing Processes

#### 3 Credits (3)

Introduction to manufactuing and processing, including: casting, forming, and machining. Emphasis on creating products with the appropriate techniques. Crosslisted with: I E 217.

Prerequisite(s)/Corequisite(s): ET 217L. Prerequisite(s): ET 110 and MATH 1220G.

#### ET 217 L. Manufacturing Processes Lab

#### 1 Credit (3P)

Hands-on laboratory in machine shop to apply topics from ET 217, including: casting, forming, and machining.

Prerequisite(s)/Corequisite(s): E T 217.

#### ET 220. Internship

#### 1-6 Credits

Internship requiring an approved number of hours of varied and progressive experience in the field of study. The scope and other requirements of the internship are stated in an individualized syllabus and through a memorandum of understanding between the faculty mentor and the industry partner. May be repeated up to 6 credits. Consent of Instructor required.

Prerequisite(s): ET 283.

#### E T 230. Introduction to Servo Systems

#### 1 Credit (2P)

Introduction to Servo Systems. Topics include uses of servos in the industry, servo types, lop gains and frequency response, software control systems, damping, feedback, encoders, synchros and resolvers. Restricted to Community Colleges campuses only.

Prerequisite(s): E T 246. E T 240. Applied Statics

#### 3 Credits (3)

Fundamental topics of applied statics, including force system analysis, equilibrium, free body diagrams, methods of joints and sections, distributed loads, friction, centroids, area moments, and shear and moment diagrams.

Prerequisite(s)/Corequisite(s): MATH 1430G or MATH 1511G. Prerequisite(s): PHYS 1230G or PHYS 1310G.

#### ET 241. Applied Dynamics

#### 3 Credits (3)

The foundation for understanding particles and bodies in motion and the forces involved, including: projectile motion, Newton's Laws of Motion, conservation of energy, and impusle and momentum.

Prerequisite(s)/Corequisite(s): (MATH 1140 or MATH 1521G or MATH 1521H). Prerequisite(s): E T 240.

### E T 245. Computer Hardware Fundamentals

#### 3 Credits (2+2P)

Computer hardware fundamentals including architecture, interfacing, peripherals, troubleshooting, system upgrades, and maintenance. Restricted to Las Cruces campus only.

#### ET 246. Electronic Devices I

#### 4 Credits (3+3P)

Solid-state devices including diodes, bipolar-transistors, and field effect transistors. Use of these devices in rectifier circuits, small signal and power amplifiers.

Prerequisite(s): ET 190 or ET 184.

### E T 253. Networking Operating Systems II

#### 3 Credits (3+1P)

Introduction to a computer network operating system. May not be used as part of an ET degree program on main campus. Restricted to Community Colleges campuses only.

Prerequisite(s): ET 155.

### E T 254. Concrete Technology

#### 3 Credits (2+2P)

Fundamentals of aggregates, Portland cement, and asphalt used in design and construction.

#### E T 255. Linux System Administration

#### 3 Credits (3)

A system administration view of the Linux operating system covering various distributions with a focus on managing the operating system and enterprise applications that run on Linux.

### ET 256. Networking Operating Systems III

#### 3 Credits (3+1P)

Introduction to a computer network operating system. May not be used as part of an E T degree program on main campus. Restricted to Community Colleges campuses only.

Prerequisite(s): ET 253.

#### ET 262. Software Technology I

#### 3 Credits (2+2P)

An introduction to computer programming concepts as applied to engineering technology. Includes basic logic design, algorithm development, debugging and documentation. History and use of computers and their impact on society.

Prerequisite(s)/Corequisite(s): ET 182 or MATH 1250G.

#### ET 272. Electronic Devices II

#### 4 Credits (3+3P)

Operational amplifiers, positive and negative feedback, computer aided circuit analysis. In addition circuits include integrator, differentiators and phase shift networks.

Prerequisite(s)/Corequisite(s): MATH 1430G or MATH 1511G.

Prerequisite(s): ET 246.

## E T 273. Fundamentals of Networking Communications I 4 Credits (2+4P)

Introduction to networking basics, including computer hardware and software, electricity, networking terminology, protocols, LANs, WANs, OSI model, IP addressing, and design and documentation of basic network and structure cabling. Community Colleges only. May be repeated up to 4 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ET 153.

#### E T 276. Electronic Communications

#### 3 Credits (2+2P)

Antennas, transmission devices, A-M and F-M transmission and detection, pulse systems, microwave systems.

Prerequisite(s): ET 246.

#### ET 277. Computer Networking I for IET

#### 3 Credits (2+2P)

Computer network design and applications for LAN, TCP/IP networks, routing and switching technologies, VLANs, and the OSI layers from physical to transport.

Prerequisite(s): ET 182.

#### E T 280. Multimedia Tools and Support

#### 3 Credits (3)

Introduction to video, audio and other digital presentation methods. Addresses the latest multimedia technology advances and how they apply to the information and communication technology fields. Sample tools like ffmpeg, and Audacity are covered.

#### ET 282. Digital Electronics

#### 4 Credits (3+3P)

Applications of digital integrated circuits, multiplexers, counters, arithmetic circuits, and microprocessors.

**Prerequisite(s)/Corequisite(s):** (E T 190 or E T 184). Prerequisite(s): E T 182.

### ET 283. Hardware PC Maintenance

#### 3 Credits (3+1P)

Installing, configuring, troubleshooting, and maintaining personal computer hardware components.

Prerequisite(s): ET 120 or ET 122.

#### ET 284. Software PC Maintenance

#### 3 Credits (3+1P)

Installing, configuring, troubleshooting, and maintaining personal computer operating systems.

Prerequisite(s): ET 120 or ET 122.

## E T 285. Advanced Information Security 3 Credits (3)

The course covers detailed analysis of network security, including security operations and policy adherence; internal and external vulnerabilities; methods of identifying, controlling and managing system access, and the protection of system information.

Prerequisite(s)/Corequisite(s): ET 283. Prerequisite(s): ET 156.

## E T 286. Information Security Certification Preparation 4 Credits (4)

The course covers the examination objectives and detailed preparation for a certification in information security.

Prerequisite(s): E T 285.

## E T 290. Networking Wireless Communication 3 Credits (3+1P)

This course provides an introduction to wireless networking and communications. Some of the topics covered are protocols, transmission methods, and IEEE 802.11 standards. Wireless LAN (WLAN) fundamentals, devices, and security, cellular telephony, broadband, and satellite communications.

Prerequisite: ET 273.

### E T 291. PC Forensics and Investigation

#### 3 Credits (3)

Introduction to computer forensics and investigative fundamentals. Topics include understanding computer forensic and investigation law and requirements, processing crime and incident scenes, and the extraction, preservation, analysis and presentation of computer-related evidence.

Prerequisite(s): ET 120 or ET 122.

# ECED-EARLY CHILDHOOD EDUCATION (ECED)

## ECED 1110. Child Growth, Development, and Learning 3 Credits (3)

This basic course in the growth, development, and learning of young children, prenatal through age eight, provides students with the theoretical foundation for becoming competent early childhood professionals. The course includes knowledge of how young children grow, develop and learn. Major theories of child development are integrated with all domains of development, including biological-physical, social, cultural, emotional, cognitive and language. The adult's role in supporting each child's growth, development and learning is emphasized.

## ECED 1115. Health, Safety, and Nutrition 2 Credits (2)

This course provides information related to standards and practices that promote children's physical and mental well-being sound nutritional practices, and maintenance of safe learning environments. It includes information for developing sound health and safety management procedures for indoor and outdoor learning environments for young children. The course examines the many scheduling factors that are important for children's total development, healthy nutrition, physical activity, and rest.

#### ECED 1120. Guiding Young Children

#### 3 Credits (3)

This course explores various theories of child guidance and the practical applications of each. It provides developmentally appropriate methods for guiding children and effective strategies and suggestions for facilitating positive social interactions. Strategies for preventing challenging behaviors through the use of environment, routines and schedule will be presented Emphasis is placed on helping children become self- responsible, competent, independent, and cooperative learners and including families as part of the guidance approach.

## ECED 1125. Assessment of Children and Evaluation of Programs 3 Credits (3)

This basic course familiarizes students with a variety of culturally appropriate assessment methods and instruments, including systematic observation of typically and non-typically developing children. The course addresses the development and use of formative and summative assessment and evaluation instruments to ensure comprehensive quality of the total environment for children, families, and the community. Students will develop skills for evaluating the assessment process and involving other teachers, professionals and families in the process.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

## ECED 1130. Family and Community Collaboration 3 Credits (3)

This beginning course examines the involvement of families and communities from diverse cultural and linguistic backgrounds in early childhood programs. Ways to establishes collaborative relationships with families in early childhood settings is discussed. Families' goals and desires for their children will be supported through culturally responsive strategies.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

### ECED 2110. Professionalism

#### 2 Credits (2)

This course provides a broad-based orientation to the field of early care and education. Early childhood history, philosophy, ethics and advocacy are introduced. Basic principles of early childhood systems are explored. Multiple perspectives on early care and education are introduced. Professional responsibilities such as cultural responsiveness and reflective practice are examined.

## ECED 2115. Introduction to Language, Literacy, and Reading 3 Credits (3)

This course is designed to prepare early childhood professionals for promoting children's emergent literacy and reading development. Through a developmental approach, the course addresses ways in which early childhood professionals can foster young children's oral language development, phonemic awareness, and literacy problem solving skills, fluency, vocabulary, and comprehension. This course provides the foundation for early childhood professionals to become knowledgeable about literacy development in young children. Instructional approaches and theory-based and research based strategies to support the emergent literacy and reading skills of native speakers and English language learners will be presented.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H, or ENGL 1110M).

## ECED 2120. Curriculum Development through Play Birth through Age 4 (PreK)

#### 3 Credits (3)

The beginning curriculum course places play at the center of curriculum in developmentally appropriate early childhood programs. It addresses content that is relevant for children birth through age four in developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with special needs and the development of IFSPs is included. Curriculum development in all areas, including literacy, numeracy, the arts, health, science, social skills, and adaptive learning for children, birth through age four, is emphasized. Consent of instructor required.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2121.

## ECED 2121. Curriculum Development through Play Birth through Age 4 (PreK) Practicum

#### 2 Credits (2)

The beginning practicum course is a co-requisite with the course Curriculum Development through Play – Birth through Age 4. The field based component of this course will provide experiences that address curriculum content that is relevant for children birth through age four in developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with special needs and the development of IFSPs is included. Curriculum development in all areas, including literacy, numeracy, the arts, health, science, social skills, and adaptive learning for children, birth through age four, is emphasized. Consent of instructor required.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2120.

## ECED 2130. Curriculum Development and Implementation Age 3 (PreK) through Grade 3

#### 3 Credits (3)

The curriculum course focuses on developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Development and implementation of curriculum in all content areas, including literacy, numeracy, the arts, health and emotional wellness, science, motor and social skills, is emphasized. Information on adapting content areas to meet the needs of children with special needs and the development of IEP's is included. Consent of instructor required.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2131.

## ECED 2131. Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum

#### 2 Credits (2)

The beginning practicum course is a co-requisite with the course Curriculum Development and Implementation: Age 3 through Grade 3. The field based component of this course will provide experiences that address developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Development and implementation of curriculum in all content areas, including literacy, numeracy, the arts, health and emotional wellness, science, motor and social skills is emphasized. Information on adapting content areas to meet the needs of children with special needs and the development of IEPs is included. Consent of instructor required. Corequisite(s): ECED 2130

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

## ECED 2140. Effective Program Development for Diverse Learners and their Families

#### 3 Credits (3)

This course addresses the role of a director/administrator in the implementation of family-centered programming that includes individually appropriate and culturally responsive curriculum in a healthy and safe learning environment for all children and their families.

### ECED 2141. Effective Program Development for Diverse Learners and their Families Practicum

#### 2 Credits (2)

Provides opportunities for students to apply knowledge gained from Curriculum for Diverse Learners and their Families in a practicum setting. Consent of instructor required. Restricted to ECED majors.

Corequisite(s): ECED 2140.

### ECED 2215. Program Management

#### 3 Credits (3)

This course emphasizes the technical knowledge necessary to develop and maintain an effective early care and education program. It focuses on sound financial management and vision, the laws and legal issues that affect programs, and state and national standards such as accreditation. Consent of instructor required.

### ECED 2280. Professional Relationships

#### 3 Credits (3)

This course addresses staff relations that will foster diverse professional relationships with families, communities and boards. Topics of staff recruitment, retention, support and supervision will lay the foundation for positive personnel, family and community relationships. Consent of instructor required.

Corequisite(s): ECED 2281.

### ECED 2281. Professional Relationships Practicum 2 Credits (2)

Practical experience in the development of staff relationship that will foster professional relationships with families, communities and boards. Issues of staff recruitment, retention, support and supervision will lay a foundation for positive personnel management. Consent of instructor required. Restricted to ECED majors.

Corequisite(s): ECED 2280.

### **ECON-ECONOMICS (ECON)**

### ECON 1110G. Survey of Economics

#### 3 Credits (3)

This course will develop students' economics literacy and teaches students how economics relates to the everyday life of individuals, businesses and society in general. The course will also introduce students to the roles different levels of governments play in influencing the economy. At the conclusion of the course, students will be able to identify economic causes for various political and social problems at national and international levels, and have a better understanding of everyday economic issues that are reported in media and public forums.

### ECON 2110G. Macroeconomic Principles

#### 3 Credits (3)

Macroeconomics is the study of national and global economies. Topics include output, unemployment and inflation; and how they are affected by financial systems, fiscal and monetary policies.

## ECON 2110H. Principles of Macroeconomics Honors 3 Credits (3)

Macroeconomic theory and public policy designed: national income concepts, unemployment, inflation, economic growth and international payment problems. Must be a Crimson Scholar.

Prerequisite(s): MATH 1220G.

## ECON 2120G. Microeconomics Principles 3 Credits (3)

This course will provide a broad overview of microeconomics. Microeconomics is the study of issues specific to households, firms, or industries with an emphasis on the role of markets. Topics discussed will include household and firm behavior, demand and supply,government intervention, market structures, and the efficient allocation of resources.

### ECON 2120H. Principles of Microeconomics Honors 3 Credits (3)

Microeconomic theory and public policy: supply and demand, theory of the firm, market allocation of resources, income distribution, competition and monopoly, governmental regulation of businesses and unions. Must be a Crimson Scholar.

Prerequisite(s): MATH 1220G.

### **EDLT-EDUCATIONAL TECHNOLOGY**

## EDLT 2110. Integrating Technology with Teaching 3 Credits (3)

Considers impact of technology on communication and knowledge development; engages students in the design of technology-integrated lessons with a constructivist approach.

### **EDUC-EDUCATION (EDUC)**

#### EDUC 1110. Freshman Orientation

#### 1 Credit (1)

Introduction to the university and to the College of Education. Discussion of planning for individualized education program and field experience. Restricted to Las Cruces campus only.

#### **EDUC 1120. Introduction to Education**

#### 2 Credits (2)

Introduction to the historical, philosophical, sociological foundations of education, current trends, and issues in education; especially as it relates to a multicultural environment. Students will use those foundations to develop effective strategies related to problems, issues and responsibilities in the field of education. Restricted to Las Cruces campus only.

#### EDUC 1140. Math for Paraprofessionals

#### 3 Credits (3)

Applied math skills for paraprofessionals working with children.

Prerequisite: CCDM 103 N.

#### EDUC 1150. Math for Paraprofessionals II

#### 3 Credits (3)

Applied math skills for paraprofessionals working under the direction of a teacher.

Prerequisite(s): EDUC 1140.

## EDUC 1185. Introduction to Secondary Education and Youth 3 Credits (3)

Introductory course for students considering a career in secondary education. Includes historical, philosophical, and sociological foundations, program organization, critical dispositions, and understanding the context of schools and youth. Practicum required. Restricted to: Secondary Ed majors. Traditional Grading with RR.

#### EDUC 1995. Field Experience I

#### 1 Credit (1)

Introduction to public school teaching, school visits, classroom observations and discussion seminar.

#### **EDUC 1996. Special Topics in Education**

#### 1 Credit (1)

Supervised study in a specific area of interest. Each course shall be designated by a qualifying subtitle. May be repeated for a maximum of 9 credits

#### EDUC 1998. Internship I

#### 3 Credits (3)

Supervised experience in elementary education settings.

#### EDUC 2710. Pre-Teacher Preparation

#### 3 Credits (3)

Assists students in developing the necessary competencies needed for acceptance to the Teacher Education Program. Course content includes basic skill development, test taking skills, and completion of teacher preparation packet. Maybe repeated for a maximum of 6 credits. Graded S/U. Community Colleges only.

#### EDUC 2998. Internship II

#### 3 Credits (3)

Supervised experience in junior high settings.

**Prerequisite:** must be a co-op student.

### **ELAD-EDUCATIONAL LEADERSHIP ADMINISTRATION**

#### ELAD 2210. Leadership and Change in Education 3 Credits (3)

This course will introduce students to the challenges and key strategies in initiating, implementing, and sustaining educational change and reform. In the first part of the course, participants will learn about the challenges of educational change in the United States and the role that they as school leaders play in facilitating change and reform. The course continues with an examination of how culture, micro-politics, and power structures support or impede national and global change initiatives. The last part of the course offers suggestions for change agents including community organizing, culture building, and embracing sustainable leadership practices. Participants will learn how to apply the change theories and concepts introduced in the course to practice through course readings, online discussions with the instructor and colleagues, group work, active examination of daily practice in schools, and personal reflection.

#### ELAD 2340. Multicultural Leadership in Education 3 Credits (3)

Introduction to the social and cultural constructions of gender, class, and race. Students will critically apply theoretical constructs to everyday life and discuss the intersection of gender and race with class inequality in national and global contexts. Using a social justice framework, readings, and assignments integrate a variety of racial/ethnic groups while considering the effects of historically uneven resource distribution, unearned privilege, forms of domination and subordination, immigration status, and cultural representation and ideologies. Participants will learn how to apply the change theories and concepts introduced in the course to practice through course readings, online discussions with the instructor and colleagues, group work, active examination of daily practice in schools, and personal reflection.

#### ELAD 2996. Special Topics in Educational Leadership 1-3 Credits (1-3)

Special topics course in education for undergraduate students. Course will be identified by a subtitle. May be repeated up to 12 credits. Restricted to Las Cruces campus only.

# **ELT - ELECTRONICS TECHNOLOGY**

#### ELT 103. Math Study Skills for Electronics 1 Credit (1)

Covers specific math study skills and critical thinking processes to reinforce practical applications of math and its use with electronics. The student will be introduced to electronic mathematical formulas during the problem-solving steps required for circuit analysis. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): ET 183 OR ET 184. Restricted to Community Colleges only.

#### **ELT 105. Basic Electricity and Electronics** 3 Credits (2+2P)

Fundamentals of electricity and electronics, basic circuit devices, meters, transistors, integrated circuits and other solid state devices, computers, fiber optics, and industrial application topics. Minimum math proficiency of CCDM 103 or CCDM 104 required or math placement into CCDM 114 or higher. Restricted to: Community Colleges only. Crosslisted with: **AERT 111** 

#### ELT 110. Electronics I

#### 4 Credits (3+3P)

Fundamentals of electronics including: components, schematics, Ohm's law, Thevenin's and Norton's theorems, and series/parallel circuits incorporating passive, active and magnetic elements. Introduction to AC circuits. Crosslisted with: AERT123. Restricted to: Community Colleges

#### **ELT 120. Mathematics for Electronics** 4 Credits (4)

Includes fundamental mathematics, algebra, sine, cosine, and other elementary functions as they specifically apply to the operation, manipulation, and evaluation of direct current (DC) and alternating current (AC) circuits. Minimum math proficiency of CCDM 114 required or math placement into MATH 1215 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 124

#### ELT 135. Electronics II 4 Credits (3+3P)

Analysis of AC circuits, filters, and resonance. Introduction to solid state fundamentals including diodes and rectifier circuits, voltage regulators, various transistors and transistor characteristics, amplification and amplifiers, photoelectric effects, gates and timing circuits. Restricted to Community Colleges campuses only.

Prerequisite(s): ELT 110 and ELT 120.

#### ELT 155. Electronics CAD and PCB Design 3 Credits (2+2P)

Introduction to and the use of commercially available CAD software covering schematic representation of electronic components and circuits. Printed circuit board layout techniques including proper schematic capture, netlist generation, design rule checking and manual routing covered.

### ELT 160. Digital Electronics I

#### 4 Credits (3+3P)

Number systems, codes, Boolean algebra, logic gates, Karnaugh maps, combination circuits, flip-flops, and digital troubleshooting techniques. Restricted to: Community Colleges only.

Prerequisite(s): ELT 110 and (ELT 120 or MATH 1215).

### **ELT 175. Soldering Practices**

#### 3 Credits (2+2P)

Methods and techniques of hand soldering in the production of high quality and reliable soldering connections. Restricted to: Community Colleges only.

### **ELT 205. Semiconductor Devices**

#### 4 Credits (3+3P)

Analysis and trouble shooting of linear electronic circuits including amplifiers, op-amps, power supplies, and oscillators. Restricted to: Community Colleges only.

Prerequisite(s): ELT 110 and ELT 135.

### ELT 215. Microprocessor Applications I

#### 4 Credits (3+2P)

Fundamentals of microprocessor architecture and assembly language with an emphasis on hardware interfacing applications.

Prerequisite(s)/Corequisite(s): ELT 235. Prerequisite(s): ELT 160. Restricted to: Community Colleges only.

## ELT 220. Electronic Communication Systems 4 Credits (3+2P)

Principles and applications of circuits and devices used in the transmission, reception, and processing of RF, microwave, digital and telecommunications systems.

**Prerequisite(s)/Corequisite(s):** ELT 205. Prerequisite(s): ELT 135. Restricted to: Community Colleges only.

#### ELT 221. Cooperative Experience I

#### 1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

#### ELT 222. Cooperative Experience II

#### 1-6 Credits

Continuation of ELT 221. Maximum of 6 credits. Graded S/U.

Prerequisite: consent of instructor.

### ELT 225. Computer Applications for Technicians

#### 3 Credits (2+2P)

An overview of computer hardware, software applications, operating systems, high level programming languages and networking systems.

### ELT 230. Microprocessor Applications II

#### 4 Credits (3+2P)

Advanced microprocessor interfacing techniques. Topics in A/D and D/A conversion, I/O port address decoding, direct memory accessing, and peripheral device interfacing applications.

Prerequisite: ELT 215.

#### ELT 235. Digital Electronics II

#### 3 Credits (2+2P)

Sequential logic circuits, latches, counters, shift-registers, fault analysis and troubleshooting of digital IC s, multiplexers, timers, encoders/ decoders, arithmetic circuits, pulse shaping, and memory devices.

Restricted to: Community Colleges only.

Prerequisite(s): ELT 160.

### ELT 240. Introduction to Photonics

#### 4 Credits (3+2P)

Nature of light, light emitters, lasers, detectors, fiber optics communications systems, and other applications of light to electronics. **Prerequisite:** ELT 135 or consent of instructor.

### ELT 250. Electronics Systems Analysis

#### 2 Credits (1+3P)

Capstone course emphasizing a systems approach to troubleshooting and maintaining complex electronics systems. Includes program review in preparation for technician certification.

Prerequisite: consent of instructor.

## ELT 260. Instrumentation Control and Signal Conditioning 4 Credits (3+2P)

Introduction to sensors and transducers, signal conditioning and transmission for measuring and process control systems. Includes AD, DA converter, small servos and actuators. Prerequisite:ELT 205.

#### **ELT 265. Special Topics**

#### 1-6 Credits

Topic to be announced in the Schedule of Classes.

## ELT 270. Biomedical Equipment Instrumentation 4 Credits (3+2P)

Principles and applications of electronic circuits and devices used in biomedical equipment. Skills taught to include evaluating, troubleshooting and repairing various types of medical equipment. **Prerequisite(s)/Corequisite(s):** ELT 260. Prerequisite(s): ELT 205. Restricted to: Community Colleges only.

### **ELWK - ELECTRICAL LINEWORKER**

## ELWK 130. Introduction to Electrical Power Systems 2 Credits (2)

An overview of electrical power systems, equipment, safety practices, first aid and CPR. May be repeated up to 2 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Corequisite(s): OEET 110,0EET 131.

### ELWK 131. Electrical Lineworker Lab I

#### 6 Credits (12P)

Climbing and work on utility poles using ropes and rigging, pole setting and an introduction to transmission and distribution line construction. Maintenance and troubleshooting to include the use of hot sticks. May be repeated up to 6 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Corequisite(s): OEET 110,OEET 130.

### ELWK 140. Electrical Power Systems II

#### 3 Credits (2+2P)

Theory of power generation and distribution with emphasis on three phase systems to include transformers, voltage regulators, surge arrestors. Includes troubleshooting. May be repeated up to 3 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Corequisite(s): OEET 141.

## ELWK 141. Electrical Lineworker II 6 Credits (12P)

Practice in the installation of electrical power lines including transformers, voltage regulators, and surge arrestors. Also advanced hot sticking procedures, troubleshooting, underground systems procedures, and pole-top rescue. May be repeated up to 6 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Corequisite(s): OEET 140.

### ELWK 221. Cooperative Experience I

#### 1-4 Credits (1-4)

Supervised cooperative work program. Student is employed in an approved occupation and is supervised and rated by the employer and instructor. Student will meet in a weekly class. May be repeated up to 4 credits. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

### **ENGL-ENGLISH (ENGL)**

## ENGL 1105M. Intermediate ESL Composition and Grammar Review 3 Credits (3)

Development of fluent academic writing skills, with an emphasis on grammar review for editing purposes. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

**Prerequisite(s):** Placement based on English language screening test, and either a minimum TOEFL score of 500 or consent of instructor.

## ENGL 1110G. Composition I 4 Credits (4)

In this course, students will read, write, and think about a variety of issues and texts. They will develop reading and writing skills that will help with the writing required in their fields of study and other personal and professional contexts. Students will learn to analyze rhetorical situations in terms of audience, contexts, purpose, mediums, and technologies and apply this knowledge to their reading and writing. They will also gain an understanding of how writing and other modes of communication work together for rhetorical purposes. Students will learn to analyze the rhetorical context of any writing task and compose with purpose, audience, and genre in mind. Students will reflect on their own writing processes, learn to workshop drafts with other writers, and practice techniques for writing, revising, and editing.

Prerequisite(s): ACT standard score in English of 16 or higher, or an Accuplacer score 250 or higher, or an SAT score of 400 or higher or CCDE 1110 N

## ENGL 1110H. Composition I Honors 4 Credits (4)

In this course, students will read, write, and think about a variety of issues and texts. They will develop reading and writing skills that will help with the writing required in their fields of study and other personal and professional contexts. Students will learn to analyze rhetorical situations in terms of audience, contexts, purpose, mediums, and technologies and apply this knowledge to their reading and writing. They will also gain an understanding of how writing and other modes of communication work together for rhetorical purposes. Students will learn to analyze the rhetorical context of any writing task and compose with purpose, audience, and genre in mind. Students will reflect on their own writing processes, learn to workshop drafts with other writers, and practice techniques for writing, revising, and editing. Individualized assignments and independent study.

**Prerequisite:** ACT standard English score of 25 or higher, or an SAT score of 550 or higher.

## ENGL 1110M. Composition I Multilingual 4 Credits (4)

In this course, students will read, write, and think about a variety of issues and texts. They will develop reading and writing skills that will help with the writing required in their fields of study and other personal and professional contexts. Students will learn to analyze rhetorical situations in terms of audience, contexts, purpose, mediums, and technologies and apply this knowledge to their reading and writing. They will also gain an understanding of how writing and other modes of communication work together for rhetorical purposes. Students will learn to analyze the rhetorical context of any writing task and compose with purpose, audience, and genre in mind. Students will reflect on their own writing processes, learn to workshop drafts with other writers, and practice techniques for writing, revising, and editing. For international and multilingual students. Your instructor and classmates will serve as your readers and will give you helpful and constructive criticism, which will in turn assist you in becoming a more fluent and engaging communicator in English. Restricted to Las Cruces campus only.

**Prerequisite(s):** CBT/PB score of 500, or IBT score of 61, or SPCD 110, or consent of instructor.

## ENGL 1120. Composition II 2 Credits (2)

In this course, students will explore argument in multiple genres. Research and writing practices emphasize summary, analysis, evaluation, and integration of secondary sources. Students will analyze rhetorical situations in terms of audience, contexts, purpose, mediums, and technologies and apply this knowledge to their reading, writing, and research. Students will sharpen their understanding of how writing and other modes of communication work together for rhetorical purposes. The emphasis of this course will be on research methods.

**Prerequisite:** successful completion of ENGL 1110G or ENGL 1110H or ENGL 1110M.

## ENGL 1410G. Introduction to Literature 3 Credits (3)

In this course, students will examine a variety of literary genres, including fiction, poetry, and drama. Students will identify common literary elements in each genre, understanding how specific elements influence meaning.

## ENGL 2130G. Advanced Composition 3 Credits (3)

This course is for students who are striving for fluency, maturity, clarity and significance in their writing. It is an intermediate writing course that builds on and refines writing skills acquired in previous courses. It focuses on non-fiction writing for the professions, business, science, technical fields, academe and/or the popular press. Short works of master writers are studied for ideas, styleand structure.

## ENGL 2210G. Professional & Technical Communication 3 Credits (3)

Professional and Technical Communication will introduce students to the different types of documents and correspondence that they will create in their professional careers. This course emphasizes the importance of audience, document design, and the use of technology in designing, developing, and delivering documents. This course will provide students with experience in professional correspondence and communicating technical information to a non-technical audience.

**Prerequisite(s):** Grade of C- or better in ENGL 1110G or ENGL 1110H or ENGL 1110M.

#### **ENGL 2210H. Professional and Technical Communication Honors** 3 Credits (3)

Professional and Technical Communication writing for Crimson Scholars/ Honors students will introduce students to the different types of documents and correspondence that they will create in their professional careers. This course emphasizes the importance of audience, document design, and the use of technology in designing, developing, and delivering documents. This course will provide students with experience in professional correspondence and communicating technical information to a non-technical audience. 3.5 GPA is also required. Restricted to Las Cruces campus only.

Prerequisite(s): grade of C- or better in ENGL 1110G or the equivalent; approval of the honors college.

#### ENGL 2215G. Advanced Technical and Professional Communication 3 Credits (3)

Theory and practice of writing in technical and professional fields, individualized to each student s field. Emphasizes efficient writing processes and effective written products. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

Prerequisite(s): Junior or above standing, or consent of instructor.

#### ENGL 2221G. Writing in the Humanities and Social Science 3 Credits (3)

Theory and practice in interpreting texts from various disciplines in the humanities and social sciences. Strategies for researching, evaluating, constructing, and writing researched arguments. Course subtitled in the Schedule of Classes. May be repeated up to 3 credits.

Prerequisite(s): Grade of C- or better in ENGL 1110G or ENGL 1110H, or ENGL 1110M.

#### ENGL 2280. History of Argument 3 Credits (3)

Investigates the major figures and movements in rhetoric from the classical period to modern rhetorical theory, examining relations between rhetorical teaching and practice, culture, epistemology, and ideology. Main campus only. Prerequisite(s): ENGL 1110G, or ENGL 1110GH, or **ENGL 1110M** 

#### **ENGL 2310G. Introduction to Creative Writing** 3 Credits (3)

This course will introduce students to the basic elements of creative writing, including short fiction, poetry, and creative nonfiction. Students will read and study published works as models, but the focus of this 'workshop' course is on students revising and reflecting on their own writing. Throughout this course, students will be expected to read poetry, fiction, and nonfiction closely, and analyze the craft features employed. They will be expected to write frequently in each of these genres. Prerequisite(s): ENGL 1110G or ENGL 1110H or ENGL 1110M.

#### ENGL 2381. Script Development and Storyboarding 3 Credits (3)

Examines effective writing principles for creating storyboards that communicate the overall picture of a project, timing, scene complexity, emotion and resource requirements. Crosslisted with: FDMA 2381.

#### ENGL 2382. Narrative: Principles of Story Across the Media 3 Credits (3)

Examines the various strategies of written and visual storytelling, narrative structure and its principal components (plot, theme, character, imagery, symbolism, point of view) with an attempt to connect them to elements of contemporary forms of media expression, including screenwriting, playwriting, writing for documentaries and animation, etc. Crosslisted with: FDMA 2382

#### ENGL 2520G. Film as Literature 3 Credits (3+3P)

The purpose of this course is to teach students how to analyze film as a visual text. Students will learn to analyze films, film techniques, eras, and genres. Students will also identify significant trends and developments in film-making, examining the ways in which film reflects and creates cultural trends and values.

### ENGL 2521. The Bible as Literature

#### 3 Credits (3)

Develops informed readings of Hebrew and Christian scriptures. Emphasizes understanding Biblical literary forms, techniques, themes; historical, cultural contexts for interpretation; authorship, composition, audience for individual books; development of Biblical canon.

#### ENGL 2610. American Literature I 3 Credits (3)

This course surveys American literature from the colonial period to the mid-nineteenth century. This course provides students with the contexts and documents necessary to understand the origins of American Literature and the aesthetic, cultural, and ideological debates central to early American culture.

### ENGL 2620. American Literature II

#### 3 Credits (3)

This course surveys American literature from the mid-nineteenth-century to the contemporary period. This course provides students with the contexts and documents necessary to understand American literature and the aesthetic, cultural, and ideological debates central to American culture.

#### ENGL 2630. British Literature I

#### 3 Credits (3)

This course offers a study of British literature from its origins in Old English to the 18th century. This survey covers specific literary works-essays, short stories, novels, poems, and plays--as well as the social, cultural, and intellectual currents that influenced the literature.

### ENGL 2640. British Literature II

#### 3 Credits (3)

This course offers a study of British literature from the 18th century to the present. This survey covers specific literary works--essays, short stories, novels, poems, and plays-as well as the social, cultural, and intellectual currents that influenced the literature.

### ENGL 2650G. World Literature I

#### 3 Credits (3)

In this course, students will read representative world masterpieces from ancient, medieval and Renaissance literature. Students will broaden their understanding of literature and their knowledge of other cultures through exploration of how literature represents individuals, ideas and customs of the world cultures. The course focuses strongly on examining the ways literature and culture intersect and define each other.

#### **ENGL 2996. Special Topics**

#### 1-3 Credits

Emphasis on a literary and/or writing subject chosen for the semester. Repeatable for a unlimited credit under different subtitles.

### **ENGR-ENGINEERING (ENGR)**

## ENGR 100G. Introduction to Engineering 3 Credits (2+3P)

An introduction to the various engineering disciplines, the engineering approach to problem solving, and the design process. Projects emphasize the importance of teamwork, written & oral communication skills, as well as ethical responsibilities. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 1220G or above.

## ENGR 100GH. Introduction to Engineering Honors 3 Credits (2+3P)

An introduction to the various engineering disciplines, the engineering approach to problem solving, and the design process. Projects emphasize the importance of teamwork, written & oral communication skills, as well as ethical responsibilities. May be repeated up to 3 credits. Crosslisted with: ENGR 100.

Prerequisite(s)/Corequisite(s): MATH 1220G or above.

## ENGR 110. Introduction to Engineering Design 3 Credits (2+3P)

Sketching and orthographic projection. Covers detail and assembly working drawings, dimensioning, tolerance specification, and design project

## ENGR 111. Mathematics for Engineering Applications 3 Credits (3)

An introduction to engineering mathematics and basic programming skills needed to perform elementary data manipulation and analysis. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): MATH 1250G. Prerequisite(s): MATH 1220G.

#### **ENGR 198. Special Topics in Engineering**

#### 1-3 Credits

Directed individual study of topics in engineering. Written reports covering work required. May be repeated for a maximum of 6 credits. Restricted to engineering majors. Graded S/U.

Prerequisite: consent of academic dean.

### ENGR 233. Engineering Mechanics I

#### 3 Credits (3)

Engineering mechanics using vector methods. Force systems, resultants, equilibrium, distributed forces, area moments, and friction.

Prerequisite(s)/Corequisite(s): PHYS 1310G. Prerequisite(s):

MATH 1521G or MATH 1521H.

#### **ENGR 234. Engineering Mechanics II**

#### 3 Credits (3)

Kinetics of particles, kinematics and kinetics rigid bodies, systems of particles, energy and momentum principles, and kinetics of rigid bodies in three dimensions.

**Prerequisite(s)/Corequisite(s):** MATH 2530G. Prerequisite(s): M E 236, C E 233, or ENGR 233.

### **ENTR-ENTREPRENEURSHIP**

#### ENTR 1110. Entrepreneurship

#### 3 Credits (3)

Introduces students to the concept of entrepreneurship and to the process of business startups.

Prerequisite(s): BUSA 1110.

### **ENVS-ENVIRONMENTAL SCIENCE**

### ENVS 1110G. Environmental Science I

#### 4 Credits (3+2P)

Introduction to environmental science as related to the protection, remediation, and sustainability of land, air, water, and food resources. Emphasis on the use of the scientific method and critical thinking skills in understanding environmental issues.

### ENVS 2111. Environmental Engineering and Science

#### 3 Credits (3)

Principles in environmental engineering and science: physical chemical systems and biological processes as applied to pollution control.

Restricted to: Main campus, Alamogordo campus, Grants campus,
Carlsbad campus. Crosslisted with: C E 256. Prerequisite(s): CHEM 1215G and MATH 1511G or higher

#### **ENVS 2111L. Environmental Science Laboratory**

#### 1 Credit (1)

Laboratory experiments associated with the material presented in ENVS 2111. Same as C E 256 L.

Corequisite(s): ENVS 2111.

# EPWS-ETMLGY/PLNT PTHLGY/WD SCI (EPWS)

#### **EPWS 1110. Applied Biology**

#### 3 Credits (3)

Introduction to applied biology and ecology focusing on insects, plants and pathogens in natural areas, crops and urban settings. EPWS 1110L is strongly recommended to take in the same semester. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

#### EPWS 1110L. Applied Biology Lab

#### 1 Credit (1)

Study of applied biology and ecology of insects, plants and pathogens in natural areas, crops, and urban settings. EPWS 1110 strongly recommended to take in the same semester. May be repeated up to 1 credits. Restricted to Las Cruces campus only.

#### EPWS 2996. Special Topics

#### 1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

# FCSC-FAMILY AND CONSUMER SCIENCES

## FCSC 2250. Overview of Family and Consumer Sciences Teaching 3 Credits (3)

Overview of planning and teaching skills. Supervised experiences in observing and directing the learning of secondary family and consumer sciences students. Philosophy and history of the profession.

#### FCSC 2330. Housing and Interior Design

#### 3 Credits (3)

Investigation of types of housing and factors impacting housing decisions for families. Selection, planning, and arrangement of interior components of homes to meet the needs of the family. Restricted to Las Cruces campus only.

### **FCST-FAMILY AND CHILD STUDIES**

## FCST 1130. Interpersonal Skills in Intimate Relationships 3 Credits (3)

Developing social skills within friendships, dating relationships, marriage, parenting, and families. May be repeated up to 3 credits. Restricted to Las Cruces and Dona Ana campuses.

## FCST 2110. Infancy and Early Childhood in the Family 3 Credits (3)

Research and theory relevant to prenatal development and the physical, mental, and socio-emotional development of the child from birth to age five. Attitudes, knowledge, and skills needed for working with young children and their families. Restricted to Las Cruces campus only.

## FCST 2120. Middle Childhood Development in the Family 3 Credits (3)

Research and theory relevant to the physical, mental, social, and emotional development of the child from age five to age twelve. Attitudes, knowledge, and skills related to working with school-age children in the family system. Observation in a variety of settings may be required. Restricted to Las Cruces campus only.

## FCST 2135. Adolescent Development and the Family 3 Credits (3)

Research and theory relevant to the physical, mental, social, and emotional development of the children ages 12 to 18. Attitudes, knowledge, and skills related to working with adolescents in the family system. Observation in a variety of settings may be required. Restricted to Las Cruces campus only.

### FCST 2140. Adult Development and Aging

**3 Credits (3)**Research and theory related to the physical, mental, social, and emotional development of older adults. Attitudes, knowledge, and skills related to working with older adults in the family system, including normative, and

nonnormative transitions. Restricted to Las Cruces campus only.

## FDMA-FILM & DIGITAL MEDIA ARTS

#### FDMA 1110. Film History

#### 3 Credits (3)

This course surveys the history of cinema -investigating the process by which the original "cinema of attractions" evolved into a globally dominant form of visual storytelling. We will explore the development of cinema both as an art form and as an industry, and consider the technological, economic, cultural factors, and key international movements that shape it.

## FDMA 1120. Desktop Publishing 3 Credits (2+2P)

This course is designed to teach introductory skills for designing and creating publications and presentations with layout software. The course will focus on graphics and typographic design, fonts, and other skills for print and web publishing.

## FDMA 1210. Digital Video Production I 3 Credits (2+4P)

An introduction to digital video production. Students learn camera operation, lights and audio equipment. Hands-on production is completed in the studio and on location.

## FDMA 1220. Introduction to Digital Video Editing 3 Credits (3)

In this course, students learn the basics of the post-production process for non-linear video editing. Students work with multiple video formats and create short movies for multiple distribution platforms. Skills include media management and professional terminology.

Prerequisite(s)/Corequisite(s): FDMA 2382.

## FDMA 1260. Introduction to Digital Media 1-3 Credits (1-3)

Explores concepts of how text, graphics, sound, images and video come together in a digital media program and researching new trends and current issues related to media applications and design. Students will be involved in teamwork, communication and workplace interaction simulation. May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

#### FDMA 1360. Web Design I 3 Credits (2+2P)

This course provides an introduction to web development techniques, theory, and design. Students will learn HTML, CSS application, and strategies for effective site navigation and design, along with industry standard web editing software to develop various websites. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ARTS 1520 OR FDMA 1515.

#### FDMA 1410. Audio Production I 3 Credits (2+2P)

Students will learn about and apply essential tools and techniques in analog and digital audio production. Topics include acoustic science, microphones, recording and mixing techniques, analog and digital audio hardware and software, including, multi-track, computer-based recording and editing systems. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 1210 and FDMA 2410.

## FDMA 1415. Principles of Sound 3 Credits (2+2P)

The creation of a professional quality original media soundtrack is possible for relatively low production/post production cost. This class is designed to give the student and overview of creating sound for a variety of digital media. Topics include acoustic principles, sound design, audio hardware, recording techniques; and editing, processing, and multi-track mixing, using software applications. Restricted to: Community Colleges only

Prerequisite(s)/Corequisite(s): FDMA 1220.

## FDMA 1510. Introduction to 3D Animation 3 Credits (3)

This course provides an overview of 3D animation production processes. Students will be introduced to basic story development and the creation of computer-generated assets and cinematic sequences. The course will survey specialty areas of digital animation and various software and techniques applied in entertainment and information media. Students will review and critique other's animation, as well as plan and produce original animation for review by classmates and as part of a CGI demo reel.

Prerequisite(s): FDMA 2382 or FDMA 2381 or consent of instructor.

### FDMA 1515. Introduction to Digital Image Editing - Photoshop 3 Credits (2+2P)

In this course, students will learn how to use the tools in Adobe Photoshop to create new images and edit existing images. Tools used will include selections, layers, and adjustments, among other pixel editing tools. Basic composition and output will be emphasized in all projects. May be repeated for a maximum of 6 credits.

## FDMA 1531. Evolution of Electronic Games 3 Credits (2+2P)

Focus on the evolution of video games and how they have shaped mainstream entertainment. May be repeated up to 6 credits.

## FDMA 1535. Introduction to Illustrator 3 Credits (2+2P)

Students receive instruction on vector graphics creation using vector illustration software. The students will create professional-quality artwork for print publishing and multimedia graphics. Instruction includes creating and manipulating basic shapes, drawing with the pen tool, using various brushes, working with type and preparing graphics for web, print, and digital publication. May be repeated for a maximum of 6 credits.

## FDMA 1536. Advanced Computer Illustration 3 Credits (2+2P)

Advanced techniques in 2D vector drawing and fundamentals of 3D illustration for use in print, web, and multimedia applications. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1535.

## FDMA 1545. Introduction to Photography & Digital Imaging 3 Credits (2+2P)

This course is a study of the principles and techniques of photography using digital equipment, and discusses how digital cameras, imaging editing, and technology have changed the world of photography. Students will learn about studies in resolution, lighting, software, editing, printing, and web applications. They will gain fundamental knowledge in the rapidly expanding technology of photography and imaging, and be able to incorporate the knowledge into all areas of digital graphics.

## FDMA 1555. Introduction to the Creative Media Industry 3 Credits (3)

This class is an introductory course for students who are beginning their understanding of Media and how it affects them and our society. It offers a broad-stroked view of the entire industry including Marketing, Production, History, Jobs, Design, Architecture, New Media Literacy, and industry standards. Students will listen to experts in the field, get involved in open discussions about the industry and use new information to complete hands-on individual & group assignments.

## FDMA 1630. Principles of Design 3 Credits (2+2P)

This course will explore how we see and use visuals to communicate information. Students will develop critical thinking skills in applying concepts of basic design principles. Students will apply the concepts with hands-on and analysis assignments. These concepts will then be applied to design for advertising, print, digital media, and web design. The business of design will also be covered with emphasis on client relations and networking Restricted to: Community Colleges only. Prerequisite(s): FDMA 1535

#### FDMA 1710. 2D Animation

#### 3 Credits (2+2P)

Concepts and techniques in storyboarding and creating interactive 2D animations for web, multimedia and video.

Prerequisite(s): FDMA 1535.

#### FDMA 1715. 2-D COMPOSING & FX

#### 3 Credits (3)

The purpose of this course is to familiarize students with the powerful compositing and special effects tools of Adobe After Effects for 2D, traditional animation. Students will learn how to assemble an existing unrendered animation into a final piece with advanced 3D lighting, spacing, and digital effects so that it can achieve a dynamic, professionally rendered look. Restricted to Las Cruces campus only.

### FDMA 1720. 3-D Character Design

#### 3 Credits (2+4P)

Focus on designing a character and then taking that design and building it in 3D using intermediate modeling techniques. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1510 or FDMA 2530.

#### FDMA 1996. Selected Topics

#### 1-4 Credits (1-4)

Specific titles to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits. Restricted to Community Colleges campuses only.

### FDMA 2111. Environmental Scene Design

#### 3 Credits (2+4P)

Modeling design techniques used to create environments and scenes for use in animated films and games. Investigation of both natural and architectural environments to be recreated in the virtual world.

Prerequisite(s): FDMA 1510 or FDMA 2530.

## FDMA 2120. Film Crew I/ Introduction to Film and Media Workflow 9 Credits (9)

An introduction to the film industry. This class teaches film production processes, film crew hierarchy, film production set-safety and etiquette and provides hands-on training in industry standard film production equipment. Students complete the semester by participating as a below-the-line crew member on a short film. Restricted to: Community Colleges only.

### FDMA 2125. Film Crew II

#### 9 Credits (9)

The second course designed to train students to become working members of film crews. It will be taught by working film professionals. Content will be lecture and hands-on. Students complete the semester by working as part of an actual film crew as below-the-line and above-the-line crew members. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 2120.

### FDMA 2144. Pre-production Management

#### 3 Credits (2+2P)

Pre-production planning paperwork breakdowns, budgeting, and scheduling; taking a project from start to finish from a producers standpoint.

Prerequisite(s): FDMA 1210.

### FDMA 2150. Desktop Publishing II

#### 3 Credits (2+2P)

This class will enhance and build upon student layout/design skills developed in the Introduction to Desktop Publishing course, incorporating intermediate to advanced concepts in typography and layout design. Upon completion of this course, students will be able to use page layout software to prepare a variety of documents for presentation and critique, including newsletters, instructional flyers, and other complex design/typographic pieces May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1120.

#### FDMA 2210. Digital Video Production II

#### 3 Credits (2+2P)

Advanced techniques of the tools and application of professional film making. May be repeated for a maximum of 6 credits.

Prerequisite: FDMA 1210.

## FDMA 2235. Music Production Master 3 Credits (2+2P)

Advanced digital audio post production and recording techniques using current entertainment industry-standard software and hardware. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 1415 and FDMA 2410.

### FDMA 2241. Advanced Camera Techniques

#### 3 Credits (2+2P)

Professional camera techniques and training for electronic news gathering and studio filmmaking. Utilizes high-end handheld shooting techniques, cranes, dollies, and steadicam training. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1210.

## FDMA 2285. Digital Video Production and Editing II 3 Credits (2+2P)

Advanced features of digital video, audio/music, and titling production software. Included are color correction, vector scopes, motion effects, and advanced editing techniques used by filmmakers. Restricted to Community Colleges campuses only. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1220.

### FDMA 2287. Digital Design Studio

#### 1-3 Credits

A design studio environment in which students obtain real-world experience while providing service to college and non-profit associations with faculty supervision using a variety of media. Can be used with permission to fulfill cooperative requirement. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1630 or ARTS 1712.

### FDMA 2310. History of Cinema I

#### 3 Credits (3)

This course surveys the history of cinema - investigating the process by which the original "cinema of attractions" evolved into a globally dominant form of visual storytelling. We will explore the development of cinema both as an art form and as an industry, and consider the technological, economic, cultural factors, as well as many key international movements that helped shape it. Restricted to: G-CMI, DFM, ANVE majors.

### FDMA 2311. History of Animation

#### 3 Credits (3)

Explores the history of Animation as an art form and industry through readings, screenings, lecture and periodic guest speakers. Restricted to: G-CMI, ANVE, DFM majors. Restricted to Las Cruces campus only.

### FDMA 2312. History of Media Design

#### 3 Credits (3)

An introduction to the principles of design history and theory within a chronological framework of historical and emerging media.

#### FDMA 2325. Advanced Photoshop

#### 3 Credits (2+2P)

This course expands on the Photoshop skill set to develop proficiency with selections, masking, channels, filters, color correction, painting tools, vector integration, video, special effects, and compositing techniques. The focus is on the core image-editing tools of Photoshop that can be universally applied to photography, print, film or the web. The material is covered in production-oriented projects and students develop work suitable for portfolios. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1515.

## FDMA 2326. Digital Photography and Imaging II 3 Credits (2+2P)

Provide understanding and skills needed for advanced digital capture, editing, optimizing and manipulating photographic images for print, web and multimedia applications. The course will prepare students to make more advanced technical and more refined aesthetic decisions relative to specific photographic applications. Restricted to: Alamogordo campus, Carlsbad campus, Dona Ana campus.

Prerequisite(s): FDMA 1545. FDMA 2360. Web Design II

#### 3 Credits (2+2P)

In this course, students will refine their skills in coding and web graphic design as well as be introduced to methods in constructing sites that adhere to the standards of responsive web design. Students will expand their knowledge of HTML and CSS using a code editor, and they will both analyze existing websites and also construct an interactive website. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1360.

## FDMA 2365. Web Design for Small Business 3 Credits (2+2P)

Technology and techniques for designing and building a web presence for small business. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1360.

#### FDMA 2370. Advanced Web Techniques

#### 3 Credits (2+2P)

Creating and managing complex web sites using advanced techniques and tools. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 1515 and FDMA 2360.

#### FDMA 2381. Storyboarding

#### 3 Credits (3)

Examines effective writing principles to create storyboards that communicate the overall picture of a project, timing, scene complexity, emotion and resource requirements. Further, the purpose of this course is to introduce students to the principles of visual storytelling—in film--through the use of the storyboard. In other words, to show how storyboards are critical 'architectural component' of the filmmaking process, used as a blueprint (or guide) to communicate the complex elemnts of a film story. Crosslisted with: ENGL 2381. Restricted to: DFM,ANVE, G-CMI majors. Restricted to Las Cruces campus only.

## FDMA 2382. Principles of Story Across the Media 3 Credits (3)

The purpose of this course is to help students understand the basic elements of narrative structure (e.g. character, dramatic conflict, theme, etc.) and how these elements may be used effectively in media expression. Crosslisted with: ENGL 2382. Restricted to: G-CMI, DFM, ANVE majors. Restricted to Las Cruces campus only.

## FDMA 2410. Audio Production II 3 Credits (2+2P)

Students will use skills developed in the Audio Production I course to produce audio projects utilizing a variety of analog and digital audio hardware and software, including continued use of multi-track, computer-based recording and editing systems, as well as exploring more advanced

audio techniques and concepts. Restricted to: Community Colleges only.

## FDMA 2510. Introduction to Sound Design for Film 3 Credits (3)

This couse is an introduction to the principles, techniques and applications of sound design and film scoring. Students learn how sound affects storytelling in a film, examine the role of sound from the script to screen, and the professional process of creating a soundtrack. Students learn how to use sound equipment in a production environment and execute basic techniques used to develop a soundtrack. Crosslisted with: FDMA 1415.

**Prerequisite(s)/Corequisite(s):** FDMA 2382. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

## FDMA 2520. Introduction to Cinematography 3 Credits (3)

The Director of Photography (or Cinematographer), in close collaboration with the Director and Production Designer, helps determine the look of a film. This course is designed to intorduce students to the technical and aesthetic fundamentals of creating, developing, and collaborating on the visual elements of storytelling, using camera framing, lensing, and lighting fundamentals such as shadows, light and color. May be repeated up to 6 credits. only. Prerequisite(s)/Corequisite(s): FDMA 2382 (Las Cruces Campus) or FDMA 1210 (Community College Campus(es)

## FDMA 2530. Introduction to 3D Modeling 3 Credits (3)

This course will introduce 3D modeling methods and current practices. Students will learn preliminary and detailed modeling techniques using industry standard software. Methods will emphasize formal and functional aspects of modeling as they apply to mechanical, organic, and sculpted topology for application in animation, games, and information media. May be repeated for a maximum of 6 credits.

### FDMA 2535. Digital Illustration

#### 3 Credits (3)

Introductory course examining traditional artistic expressions and translating visual art experiences into a digital art medium to enhance visual storytelling. Students acquire basic principles of drawing and painting through hands-on experience manipulating tonal value, composition, form development, light and shadow, color theory, rendering realism, and graphic design. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

### FDMA 2570. Creative Media Studio 3 Credits (2+2P)

A studio environment where students specialize in creating film-festival quality and portfolio-ready projects under the supervision of faculty. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1210 and FDMA 1220 or FDMA 2530.

#### FDMA 2710. Beginning 2-D Animation

#### 3 Credits (3)

Students will learn the basics of digital 2D animation by working through a variety of exercises, creating an original storyboard, and animating five or more shots utilizing industry standard software. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

#### FDMA 2715. Special Effects

#### 3 Credits (2+4P)

Creating advanced virtual special effects for both rigid and soft bodies. Using MEL, dynamic principles, mixing nodes, and advanced particle systems. How to drive particles over surfaces, add texture to flow, create surface tensions, and use collision events to drive texture. Study of integrating computer-generated images with real-life video and audio. **Prerequisite(s):** FDMA 2530 or FDMA 2765.

#### FDMA 2720. 3-D Animation

#### 3 Credits (3)

Overview of the essentials and principles of 3D animation; creative methods for using industry standard tools to produce the illusion of movement for storytelling. Topics include, keyframe and curve animation, kinematics, cycle animation, camera animation, deformers, and constraints.

Prerequisite(s): FDMA 1510, FDMA 2710 or consent of instructor.

## FDMA 2725. Rigging for 3D Animation 3 Credits (3)

This course will introduce principles and practices of current 3D animation rigging. Students will develop fundamental methods necessary to create character rigs. Students will learn aesthetic, technical, and optimization concepts as they apply to organic and mechanical designs. Topics will include: hierarchies, constraints, deformation rigging, skeleton creation, skinning, forward and inverse kinematics, controls, body and facial rigging. Restricted to: DFM, ANVE majors.

Prerequisite(s): FDMA 1510.

## FDMA 2730. Advanced Character Animation 3 Credits (2+2P)

Focus on complex rigging techniques as well as utilizing advanced animation functions to blend multiple animations into complex animations. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 2530.

## FDMA 2735. Advanced 3D Animation Workshop A 3 Credits (2+4P)

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits. Consent of instructor required. **Corequisite(s):** FDMA 2740.

## FDMA 2740. Advanced 3D Animation Workshop B 3 Credits (2+4P)

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits. Consent of instructor is required. **Corequisite(s):** FDMA 2735.

### FDMA 2745. Light, Shade, Render

#### 3 Credits (3)

This course will explore the theory and practice of 3D lighting and rendering methodologies. Techniques covered will implement cameras, lighting sources, textures, surface-mapping and algorithmic rendering to produce stylized and photo realistic images. Topics covered will include direct and indirect lighting, shaders that simulate physical substances and effects, rendering multiple passes and simulating physical lens effects. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

Prerequisite(s): FDMA 1510, FDMA 2530, or Consent of Instructor.

#### FDMA 2750. Digital Sculpting

#### 3 Credits (3)

Introduce students to the 3D Sculpting programs which are the industry standard sculpting programs. Students will learn how to create complex high polygon sculpts and normal maps and transfer the models into 3D studio Max and Autodesk Maya. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 2530.

#### FDMA 2755. Drawing for Animation

#### 3 Credits (3)

Introductory study of the human and animal form in relation to animation. Students learn fundamentals and exaggeration of the figure, as related to proportion, rhythm, mechanics, and motion. Areas of focus are: basic form, proportion, shape, contour, gesture, anatomy, portraiture, perspective, clothing effects and drawing from observation. Restricted to: CMT,DFM,ANVE majors.

### FDMA 2770. Critical Game Studies

#### 3 Credits (2+2P)

Focus on creating a complete design document utilizing techniques and standards used in the industry today. May be repeated for up to 6 credits. Restricted to: Community Colleges only.

### FDMA 2775. Game Tools and Techniques

#### 3 Credits (2+2P)

Focus on the different engines and gaming technologies that power the games of today. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 2770.

#### FDMA 2785. Level Design Concepts

#### 3 Credits (2+2P)

Focus on the design and creation of video game levels. Dealing with the challenges and pitfalls of different video game genres. May be repeated for a maximum of 6 credits. Prerequisite(s): FDMA 2770

## FDMA 2993. Workshops (Advanced Photogrophy-Subtitle) 1 Credit (1)

This is a series of 1-credit workshops offering specialized and intense advanced skill training and upgrading applications of photography for commercial purposes and training in photographic skills and styles presented by a variety of professional lecturers. May be repeated up to 7 credits. Restricted to Community Colleges only.

Prerequisite(s): FDMA 1545.

### FDMA 2994. Portfolio Design & Development

#### 1-3 Credits

Personalized design and creation of the student's professional portfolio including hard-copy, demo reel, and online. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

### FDMA 2995. Film Crew Cooperative Experience

#### 3-6 Credits (3-6)

Industry production experience in specific craft areas for film crew technicians who have successfully completed two semesters of FTTP. Restricted to: Dona Ana campus, Carlsbad campus.

Prerequisite(s): FDMA 2125.

#### FDMA 2996. Special Topics

#### 1-4 Credits

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits.

#### FDMA 2997. Independent Study

#### 1-3 Credits

Individual studies directed by consenting faculty with prior approval of department head. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Minimum GPA of 3.0 and sophomore standing.

#### FDMA 2998. Internship

#### 1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 9 credits. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. Consent of instructor required.

### **FIRE-FIRE INVESTIGATION (FIRE)**

#### FIRE 101. Firefighter I

#### 8 Credits (6+6P)

This course will train the student to the Firefighter I level as outlined in NFPA 1001, Standard for Firefighter Professional Qualifications. Firefighter I certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 8 credits. Consent of Instructor required.

**Prerequisite(s)/Corequisite(s):** OEEM 103 and FIRE 115. Restricted to Community Colleges campuses only.

### FIRE 102. Fire Fighter I and II

#### 12 Credits (12)

This course will train the student as outlined in NFPA 1001, Fire Fighter Professional Qualifications. Firefighter I & II Certification issued through the New Mexico Firefighter's Training Academy (NMFTA) upon successful completion [International Fire Service Accreditation Congress (IFSAC) & Pro Board accredited]. Consent of Instructor required.

**Prerequisite(s)/Corequisite(s):** FIRE 115, FIRE 252, OEEM 103. Restricted to Dona Ana campus only.

### FIRE 104. Firefighter II

#### 8 Credits (6+6P)

This course will train the student to the Firefighter II level as outlined in NFPA 1001, Standard for Firefighter Professional Qualifications. Firefighter II certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 8 credits. Consent of Instructor required.

**Prerequisite(s)/Corequisite(s):** FIRE 252. Prerequisite(s): FIRE 101. Restricted to Community Colleges campuses only.

## FIRE 112. Principles of Emergency Services 3 Credits (3)

This course provides an overview to fire protection and emergency services including career opportunities in fire protection and related fields. The organization and function of public and private fire protection services is studied including how fire departments fit as part of local government. An overview of laws and regulations affecting the fire service is explored along with specific fire protection functions and responsibilities including basic fire chemistry and physics, introduction to fire strategy and tactics and life safety initiatives. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

## FIRE 114. Fire Behavior and Combustion 3 Credits (3)

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. Restricted to: Community colleges only.

### FIRE 115. Hazardous Materials Awareness and Operations 3 Credits (3)

This course will train the student to the Hazardous Materials Awareness and Operations level as outlined in NFPA 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents and OSHA 29 CFR 1910.120. Hazardous Materials Awareness and Operations certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

## FIRE 120. Fire Protection Hydraulics and Water Supply 3 Credits (3)

This course will train students on skill requirements for becoming a safe and effective fire apparatus driver/operator. The focus will be on pump operation, construction, testing, and mathematical calculation required for effective pump operation and fire control. Responsibilities of the driver/operator will be taught and assessed consistent with applicable NFPA standards and the New Mexico Firefighters' Training Academy (NMFTA) guidelines. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the NMFTA. Consent of Instructor required. Restricted to Community Colleges campuses

### FIRE 126. Fire Prevention

Prerequisite(s)/Corequisite(s): FIRE 128.

#### 3 Credits (3)

This course will educate students about the principles and techniques of fire prevention and life-safety inspection and code compliance in accordance to NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner, Level I. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the New Mexico Firefighters' Training Academy (NMFTA). Restricted to Community Colleges campuses only.

## FIRE 128. Apparatus and Equipment 2 Credits (2)

The course will train students on attitude and skill requirements for becoming a safe and effective fire apparatus driver/operator. The focus will be on apparatus inspection, operation, maintenance, and specification. Responsibilities of the driver/operator will be taught and assessed consistent with applicable NFPA standards and the New Mexico Firefighters' Training Academy (NMFTA) guidelines. Students pursuing certification must posses a current and valid New Mexico driver's license. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the NMFTA. Restricted to Community Colleges campuses only.

## FIRE 130. Principles of Fire and Emergency Services Safety and Survival 3 Credits (3)

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. Consent of instructor required. Restricted to: Community colleges only.

#### FIRE 200. Special Topics 1-12 Credits (1-12)

Specific subjects to be announced in the Schedule of Classes. Course may be repeated for credit as topics change. May be repeated up to 12 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

## FIRE 201. Independent Study 1-3 Credits

Research on an approved topic to meet graduation requirements. Meets or exceeds NFPA standards. May be repeated for total of 9 credits. **Prerequisite:** consent of instructor.

### FIRE 202. Wildland Fire Control

#### 1-3 Credits

Focuses on factors affecting wildland fire control and prevention, fire behavior, control techniques, command structure and other operations including Standards for Survival I-100, S-130 and S-190 Meets or exceeds NWCG Training Curriculum and NFPA 1051 standards. Restricted to: Community Colleges Only.

## FIRE 203. Fire and Emergency Services Administration 3 Credits (3)

This course will provide students entry-level training in company operations and administration at the first-line supervisory level. The student will learn how to effectively manage human resources and community/public relations. Students will learn about fire department organization and administration; including budgets, reports, and planning. Students will learn the process involved in fire inspection, investigation, public education, emergency service delivery, and safety, per NFPA Standard 1021, Fire Officer Professional Qualifications. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

## FIRE 210. Building Construction for Fire Protection 3 Credits (3)

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. Restricted to: Community colleges only.

#### FIRE 220. Cooperative Experience I

#### 1-3 Credits

Supervised cooperative work program. Student is employed in an approved occupation and rated by the employer and instructor. May be repeated for a maximum of 6 credits. Graded S/U.

Prerequisite: consent of instructor.

### FIRE 221. Cooperative Experience II

#### 3 Credits (3)

Apply advanced firefighting knowledge and skills while working with fire protection agencies. Meets or exceeds NFPA standards. Consent of instructor required. Graded: S/U. Restricted to: Community Colleges only. **Prerequisite(s):** FIRE 220.

### FIRE 223. Fire Investigations I

#### 3 Credits (3)

This course meets the requirements set forth in NFPA 1033 Professional Qualifications for Fire Investigator. This course will give a comprehensive understanding of the principles of fire investigation, scene examination, documentation, evidence collection/preservation, interview techniques, and post-incident investigations. Student who meet all course requirements are eligible for International Fire Service Accreditation Congress (IFSAC) certification through New Mexico Firefighters' Training Academy (NMFTA). Restricted to Community Colleges campuses only.

### FIRE 224. Strategy and Tactics

### 3 Credits (3)

Provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment and extinguishing agents on the fire ground. Covers the development of systematic action plans for emergency situations. Includes recognizing and prioritizing emergency scene needs and developing related strategies, tactics and contingencies. Educates students on how resources should be deployed to implement those plans. Restricted to Community Colleges campuses only.

### FIRE 225. Fire Protection Systems

#### 3 Credits (3)

This course provides information relating to the features and design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. Restricted to: Community colleges only.

#### FIRE 230. Fire Service Instructor

#### 3 Credits (3)

Provides the instructor candidate with methods and techniques of instruction including oral communications, preparing lesson plans, writing performance objectives, use of audio and other training aids, and the selection, evaluation and preparation of performance tests. Meets and exceeds NFPA 1041 Level I standards. Restricted to: Community Colleges only.

#### FIRE 232. Firefighter Internship

### 3 Credits (3)

Application of knowledge, skills and abilities in a fire service department, as a firefighter intern and integrated member of a fire affiliated agency. Restricted to majors.

**Prerequisites:** FIRE 101, FIRE 102, FIRE 115, FIRE 202 and EMT-B and consent of instructor.

### FIRE 233. Practical Approach to Terrorism

#### 3 Credits (3)

Gives responder an overall safety approach in recognizing and responding to incidents involving terrorism. Presents an overview in types of harm, explosive weapons, chemical weapons, biological weapons and radiological weapons. Restricted to: Community Colleges only. Crosslisted with: LAWE 233

#### FIRE 252. Vehicle Extrication

#### 2 Credits (1+2P)

This course will train the student to the Vehicle & Machinery Extrication level I as outlined in NFPA 1006, Standard for Technical Rescuer Professional Qualifications. Vehicle & Machinery Extrication certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

### **FREN-FRENCH (FREN)**

#### FREN 1110. French I

#### 4 Credits (4)

Intended for students with no previous exposure to French, this course develops basic listening, speaking, reading, and writing skills aiming toward the ACTFL novice-high level. This is an introductory course designed to teach the student to communicate in French in everyday situations and to develop an understanding of French and Francophone cultures through the identification of cultural products and practices, of cultural perspectives, and the ability to function at a survival level in an authentic cultural content. This course will also develop the student's sense of personal and social responsibility through the identification of social issues.

### FREN 1120. French II

### 4 Credits (4)

A continuation of French 1, students will develop a broader foundation in skills gained during the first semester, including understanding, speaking, reading and writing French aiming toward the ACTFL intermediate-low level. This course is designed to increase student fluency in French as applied to everyday situations. Students will also learn to recognize and understand various French and Francophone products, practices, and perspectives, identifying common cultural patterns, describing basic cultural viewpoints, and further developing their sense of personal and social responsibility through the investigation of cultural issues.

### FREN 2110. French III

#### 3 Credits (3)

In this third semester course, students will continue to develop a broader foundation in skills gained during the first year, including understanding, speaking, reading and writing French aiming toward the ACTFL intermediate-mid level. This course is designed to teach the student to communicate in a more sustained way in areas of personal interest and in everyday situations. Students will engage in and analyze various French and Francophone products, practices, and perspectives, as well as continue to develop their sense of personal and social responsibility through comparison and contrast of cultural perspectives.

Prerequisite(s): C or better in FREN 1120.

Prerequisite(s): C or better in FREN 1110.

#### FREN 2120. French IV

### 3 Credits (3)

In this fourth semester course, students will continue to broaden and refine skills gained during previous semesters, including understanding, speaking, reading and writing French aiming at the ACTFL intermediate-high level. This course is designed to teach the student to communicate in a more sustained way in situations that go beyond the everyday. Students will evaluate various French and Francophone products, practices, and create ways to demonstrate their sense of personal and social responsibility through participation in cultural interaction.

Prerequisite(s): C or better in FREN 2110.

# FSTE-FOOD SCIENCE & TECHNOLOGY (FSTE)

### FSTE 1110G. Introduction to Food Science and Technology 4 Credits (3+2P)

An introductory course in the scientific study of the nature and composition of foods and their behavior during all aspects of their conversion from raw materials to consumer food products.

### FSTE 1120. ACES in the Hole Foods I

#### 4 Credits (4)

Food production activities related to operation of ACES in the Hole Foods, a student-run food company that will give FSTE majors hands-on experience in all aspects of developing, producing and marketing food products Restricted to Las Cruces campus only.

**Prerequisite(s):** Students enrolled in this class must possess A Food Handler Card.

### FSTE 2110G. Food Science I

### 4 Credits (3+2P)

The scientific study of the principles involved in the preparation and evaluation of foods. May be repeated up to 4 credits.

### FSTE 2120. ACES in the Hole Foods II $\,$

### 4 Credits (8P)

Food production activities related to operation of ACES in the Hole Foods, a student-run food company that will give FSTE majors hands-on experience in all aspects of developing, producing and marketing food products. May be repeated up to 4 credits.

Prerequisite(s): FSTE 1120 and Have a Food Handler Card.

# FSTE 2130G. Survey of Food and Agricultural Issues 3 Credits (3)

Survey of food and agricultural issues, including: geography of food production and consumption; human-agricultural-natural resource relations; agriculture in the United States and abroad; modern agribusiness; food safety; food, agriculture, and natural resources policy; ethical questions; role and impact of technology. Crosslisted with AEEC 2130G.

### FSTE 2996. Special Topics

### 1-4 Credits

Specific topics and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

# FWCE-FISH, WILDLF, CONSERV ECOL (FWCE)

# FWCE 1110G. Introduction to Natural Resources Management 4 Credits (3+2P)

This class covers historical and current issues affecting the management of renewable natural resources with an emphasis on water, soil, rangeland, forest, fish, and wildlife resources. An emphasis is placed on the scientific method and critical thinking. In the laboratory students collect and analyze field data on topics covered above and write up each unit as a laboratory report.

### FWCE 1120. Contemporary Issues in Wildlife and Natural Resources Management

#### 3 Credits (3)

Ecological, socioeconomic, and political issues surrounding the management of our natural resources with an emphasis on fish and wildlife resources.

# FWCE 2110. Principles of Fish and Wildlife Management 3 Credits (3)

Basic principles of fish and wildlife management including history, ecology, economics, and policy. Emphasis on wildlife and fisheries. Uses an ecosystem approach integrating living and nonliving resources.

Prerequisite(s): FWCE 1110G.

### **FYEX-FIRST YEAR EXPERIENCE**

### FYEX 1110. First-year Seminar

#### 1-3 Credits

This course is designed to help students achieve greater success in college and in life. Students will learn many proven strategies for creating greater academic, professional, and personal success. Topics may include career exploration, time management, study and test-taking strategies to adapt to different learning environments, interpersonal relationships, wellness management, financial literacy, and campus and community resources.

### FYEX 1112. The Freshman Year Experience 3 Credits (3)

An introduction to the university and its resources; emphasis on development of academic and personal skills that enable freshmen to become successful learners. Restricted to: Main campus only.

Prerequisite(s): Freshman Standing Only.

### FYEX 1116. Managing Your Money

#### 1 Credit (1)

Principles and strategies for effective money management. Includes financial goal setting, both short and long term. Explores the relationship between career and income earning potential. Explores issues of credit and debt management and prevention of identity theft.

# FYEX 1117. Financial Literacy Money Matters 2 Credits (2)

This course will cover a variety of financial literacy topics ranging from budgeting to student loan repayment. This course is designed to assist students in becoming more financially literate. Restricted to Las Cruces campus only.

### FYEX 1130. Academic Skills for Mathematics

#### 1-3 Credits (1-3)

Emphasis on study skills for success in math, up to the calculus level, tailored to meet individual student needs. Topics include test preparation strategies, efficient time management and practice methods, and introduction to and practice with learning software. Consent of instructor required.

#### FYEX 1131. Personal Learning Skills I

#### 1-3 Credits

Individualized programs for self-improvement in skill areas necessary for academic success in the university environment. Each course to bear an appropriate subtitle. May be repeated up to 3 credits. Graded S/U.

### FYEX 1132. Academic and Personal Effectiveness 2 Credits (2)

Learn academic self-analysis skills through the application of study and learning techniques to current course demands. Exposure to a variety of topics which enhance university and life-long learning.

### FYEX 1133. Academic Reading and Study Skills

#### 1-4 Credits

Introduction to and practice with strategies for effective reading and studying at the college level. Provides laboratory.

#### FYEX 1134. Speed Reading

#### 1 Credit (1)

Introduction to strategies and techniques for increasing reading rate and comprehension related to academic areas.

#### FYEX 1140. Career Exploration

#### 1 Credit (1)

Survey of careers possible with community college associate degrees. Information on how to make a career choice.

### FYEX 1141. Career Explorations and Planning

#### 1 Credit (1)

This course is designed to increase the likelihood that individuals will successfully navigate the challenges they face when making college major and related career choices. Restricted to Las Cruces campus only.

### FYEX 1160. Tutorial

#### 1-3 Credits

Development of specific skills required for college courses, such as notetaking, listening, and test-taking. To be taken in conjunction with a regular designated college course.

### FYEX 1170. NMSU Gospel Choir

### 1 Credit (1)

Students will gain performance experience and exposure to urban contemporary gospel music. Open to all majors. May be taken for unlimited credit. Restricted to: Main campus only.

### FYEX 1995. Preparing for Cooperative Education & Internship 1 Credit (1)

The Cooperative Education Course provides students with a comprehensive overview of career-related topics designed to assist with securing Cooperative Education and Internship employment. Students learn about philosophies and approaches to resumes, cover letters, interviewing, job searching, networking, and professionalism. A primary focus of the course is on experiential learning where students have opportunities to practice and implement course concepts including interviewing, networking, job searching, and document creation. In addition to exploring topics related to Cooperative Education and Internship, the course is designed to provide students with tools and strategies for successfully navigating the transition from student to employee. Graded: S/U Grading (S/U, Audit). Restricted to Las Cruces campus only.

#### FYEX 1996. Special Topics

#### 1-4 Credits

Covers specific study skills and critical thinking topics. Specific sub-titles to be listed in the Schedule of Classes. May be repeated for a maximum of 8 credits.

### FYEX 2111. Critical Thinking Skills

#### 3 Credits (3)

Introduction to critical thinking processes. Develops higher order thinking necessary to evaluate clearly, logically, and accurately one s academic and life experiences. Practical emphases on assertive thinking and perspectives. Prerequisite(s): CCDE 110 N

### FYEX 2994. Prior Learning: Professional Portfolio 1-6 Credits

Creating a portfolio that outlines professional and educational experiences. Life skills and education learned through workplace training and non-traditional education experiences will be evaluated for consideration of awarding college credit. Students will draft a life history paper, prepare a professional resume, assemble supporting documentation and evidence in support of their petition to receive college credit for prior learning. Culminating activities will include an oral presentation of the portfolio contents. Graded S/U.

Prerequisite(s): CCDE 110 N or equivalent.

### **GENE-GENETICS (GENE)**

### GENE 1110. Experimental Systems in Genetics

#### 1 Credit (1)

Survey of molecular, biochemical, organismal, and computer science based approaches to investigate how genes determine important traits. Historical development and topics of current interest will be discussed.

### **GEOG-GEOGRAPHY (GEOG)**

### GEOG 1110G. Physical Geography 4 Credits (3+3P)

This course introduces the physical elements of world geography through the study of climate and weather, vegetation, soils, plate tectonics, and the various types of landforms as well as the environmental cycles and the distributions of these components and their significance to humans.

# GEOG 1120G. World Regional Geography 3 Credits (3)

Overview of the physical geography, natural resources, cultural landscapes, and current problems of the world's major regions. Students will also examine current events at a variety of geographic scales.

### GEOG 1130G. Human Geography

### 3 Credits (3)

This course serves as an introduction to the study of human geography. Human geography examines the dynamic and often complex relationships that exist between people as members of particular cultural groups and the geographical 'spaces' and 'places' in which they exist over time and the world today.

### GEOG 2130. Map Use and Analysis 3 Credits (2+3P)

Exploration of the cartographic medium. Development of critical map analysis and interpretation skills, and map literacy. Comprised of traditional lecture, labs, and map use projects.

#### **GEOG 2996. Special Topics**

#### 1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

### **GEOL-GEOLOGY (GEOL)**

### GEOL 1110G. Physical Geology 4 Credits (3+3P)

Physical Geology is an introduction to our dynamic Earth introducing students to the materials that make up Earth (rocks and minerals) and the processes that create and modify the features of our planet. The course will help students learn how mountains are formed, how volcanoes erupt, where earthquakes occur, and how water, wind, and ice can shape landscapes. Students will also develop a basic understanding of the ways humans have altered the planet including our impact on natural resources and global climate change.

# GEOL 1150. Introduction to Rocks and Minerals 3 Credits (2+3P)

This course is an introduction to the characteristics and the formation of the three main types of rocks, the rock-forming minerals, and important ore minerals. An outline of Plate Tectonics will give students the basis to understand how many of these rocks and minerals form. In laboratory exercises, students will gain practice in describing and identifying hand-specimens of the main types of rocks and minerals.

### Prerequisite(s)/Corequisite(s): GEOL 1110G.

### GEOL 2120. Introduction to Oceanography 4 Credits (3+3P)

This course covers aspects of geology, chemistry, physics, climatology, environmental science, and biology as they apply to the oceans. Oceanography explores the ocean in the Earth system with special emphasis on the flow and transformation of weather and energy into and out of the ocean, the physical and chemical properties of seawater, ocean circulation, marine life and its adaptations, interactions between the ocean and the other components of the Earth system, and the human/ societal impacts on and response to those interactions. This course provides the foundation needed for students to intelligently participate in important societal discussions that involve environmental issues. Community Colleges only. Consent of Instructor required

### GEOL 2130. Introduction to Meteorology 4 Credits (3+3P)

Introduction to Earth's atmosphere and the dynamic world of weather as it happens. Working with current meteorological data delivered via the Internet and coordinated with learning investigations keyed to the current weather; and via study of select archives.

#### **GEOL 2996. Special Topics**

#### 1-3 Credits

Specific subjects to be announced in the Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits.

### **GNDR-WOMEN'S STUDIES**

### GNDR 2110G. Introduction to Women, Gender, and Sexuality Studies 3 Credits (3)

This course introduces students to key concepts, debates, and analytical tools informing Women's, Gender, and Sexuality Studies. As an interdisciplinary field of study, Women's, Gender, and Sexuality Studies employs academic perspectives from a range of disciplines and theoretical approaches. It also incorporates lived experience and social location into its object of analysis. Though content will vary according to the expertise and focus of the instructor, this course will develop tools through readings and assignments that critically analyze how gender and sexuality are shaped by different networks of power and social relations and demonstrate how the intersections of race, class, disability, national status, and other categories identity and difference are central to their understanding and deployment. In addition to feminist thought, areas of focus might include gender and sexuality in relation to social, cultural, political, creative, economic, or scientific discourses. This class is recommended for those with a general interest in the topic area as well as for those seeking a foundational course for further study.

### GNDR 2120G. Representing Women Across Cultures 3 Credits (3)

Historical and critical examination of women's contributions to the humanities, with emphasis on the issues of representation that have contributed to exclusion and marginalization of women and their achievements.

### **GRMN-GERMAN**

### GRMN 1110. German I

#### 4 Credits (4)

Intended for students with no previous exposure to German, this course develops basic listening, speaking, reading, and writing skills aiming toward the ACTFL novice-mid level. This is an introductory course designed to teach the student to communicate in German in everyday situations and to develop an understanding of German cultures through the identification of cultural products and practices, of cultural perspectives, and the ability to function at a survival level in an authentic cultural content. This course will also develop the student's sense of personal and social responsibility through the identification of social issues.

### GRMN 1120. German II

### 4 Credits (4)

A continuation of German 1, students will develop a broader foundation in skills gained during the first semester, including understanding, speaking, reading and writing German aiming toward the ACTFL novice-high level. This course is designed to increase student fluency in German as applied to everyday situations. Students will also learn to recognize and understand various German products, practices, and perspectives, identifying common cultural patterns, describing basic cultural viewpoints, and further developing their sense of personal and social responsibility through the investigation of cultural issues.

Prerequisite(s): C or better in GRMN 1110.

#### GRMN 2110. German III

### 3 Credits (3)

In this third semester course, students will continue to develop a broader foundation in skills gained during the first two semesters, including understanding, speaking, reading and writing German aiming toward the ACTFL intermediate-low level. This course is designed to teach the student to communicate in a more sustained way in areas of personal interest and in everyday situations. Students will engage in and analyze various German products, practices, and perspectives, as well as continue to develop their sense of personal and social responsibility through comparison and contrast of cultural perspectives.

Prerequisite(s): C or better in GRMN 1120.

#### GRMN 2120. German IV

#### 3 Credits (3)

In this fourth semester course, students will continue to broaden and refine skills gained during previous semesters, including understanding, speaking, reading and writing German aiming at the ACTFL intermediatemid level. This course is designed to teach the student to communicate in a more sustained way in situations that go beyond the everyday. Students will evaluate various German products, practices, and create ways to demonstrate their sense of personal and social responsibility through participation in cultural interaction.

Prerequisite(s): C or better in GRMN 2110.

### **HIST-HISTORY (HIST)**

#### HIST 1105G. Making History

#### 3 Credits (3)

General introduction to history: how historians carry out research and develop interpretations about the past.

### HIST 1110G. United States History I

### 3 Credits (3)

The primary objective of this course is to serve as an introduction to the history of the United States from the pre-colonial period to the immediate aftermath of the Civil War. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of the United States within the context of world societies.

### HIST 1120G. United States History II

#### 3 Credits (3)

The primary objective of this course is to serve as an introduction to the history of the United States from reconstruction to the present. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of the United States within the context of world societies.

### HIST 1130G. World History I

#### 3 Credits (3)

The primary objective of this course is to serve as an introduction to global history from the 16th century to the present. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of world societies.

### HIST 1140G. World History II

#### 3 Credits (3)

The primary objective of this course is to serve as an introduction to global history from ancient times to the 16th century. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of world societies.

### HIST 1150G. Western Civilization I

### 3 Credits (3)

This course is a chronological treatment of the history of the western world from ancient times to the early modern era. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of western civilization within the context of world societies. Selective attention will be given to 'non-western' civilizations which impact and influence the development of 'western' civilization.

### HIST 1160G. Western Civilization II 3 Credits (3)

This course is a chronological treatment of the history of the western world from the early modern era to the present. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of western civilization within the context of world societies. Selective attention will be given to 'non-western' civilizations which impact and influence the development of 'western' civilization.

# HIST 1170. Survey of Early Latin America 3 Credits (3)

The primary objective of this course is to serve as a survey of the history of Latin America from pre-Columbian times through independence. This course will explore the contributions of Indigenous peoples, Africans, and Europeans to the creation of Latin America's diverse societies. The elements of this course are designed to inform students on the major events and trends that are essential to the understanding of the history of Latin America within the context of world societies.

### HIST 1180. Survey of Modern Latin America 3 Credits (3)

The primary objective of this course is to serve as a survey of the history of Latin America from independence to the present. This course will explore the contributions of Indigenous peoples, Africans, and Europeans to the creation of Latin America's diverse societies. The elements of this course are designed to inform students on the major events and trends that are essential to the understanding of the history of Latin America within the context of world societies.

### HIST 2110. Survey of New Mexico History

The primary objective of this course is to serve as an introduction to the history of New Mexico from the pre- Columbian times to the present day. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of New Mexico within the context of the Americas.

#### HIST 2245G. Islamic Civilizations to 1800

#### 3 Credits (3)

History of Islamic civilizations to 1800.

### HIST 2246G. Islamic Civilizations since 1800 3 Credits (3)

History of Islamic civilizations since 1800.

#### HIST 2250G. East Asia to 1600

### 3 Credits (3)

History of China, Korea, Vietnam, and Japan from earliest times through the sixteenth century. Emphasis on cultural and political developments and their social and economic contexts, and the interaction between East Asian societies.

#### HIST 2251G. East Asia since 1600

### 3 Credits (3)

History of China, Korea, Vietnam, and Japan from the sixteenth through the twentieth centuries. Emphasis on internal development of each country, as well as the social and political impact of Western Imperialism, and the emergence of each country's unique version of modern society.

#### HIST 2996. Special Topics

#### 1-3 Credits

Specific subjects to be announced in the Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits.

### **HIT-HEALTH INFO TECHNOLOGY (HIT)**

### HIT 110. Electronic Health Records

#### 3 Credits (3)

This course will train students on skill requirements for becoming a safe and effective fire apparatus driver/operator. The focus will be on pump operation, construction, testing, and mathematical calculation required for effective pump operation and fire control. Responsibilities of the driver/operator will be taught and assessed consistent with applicable NFPA standards and the New Mexico Firefighters' Training Academy (NMFTA) guidelines. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the NMFTA. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s)/Corequisite(s): FIRE 128.

# HIT 120. Health Information Introduction to Pharmacology 3 Credits (3)

Introduction to the principles of pharmacology, including drug terminology; drug origins, forms, and actions; routes of administration; as well as the use of generic name drugs, trade name drugs and categories of drugs to treat multiple and specific body systems. May be repeated up to 3 credits. Crosslisted with: NURS 120. Restricted to Community Colleges campuses only.

# HIT 130. Health Information Technology Anatomy & Physiology 3 Credits (3)

An introductory course in the basics of human structure and function. Body systems are examined as to how they relate to proper code selection and as part of the functioning of the body as a whole. Restricted to Community Colleges campuses only.

### HIT 140. Health Information Introduction to Pathophysiology 3 Credits (3)

Introduction to the nature of disease and its effect on body systems. Disease processes affecting the human body via an integrated approach to specific disease entities will be presented including a review of normal functions of the appropriate body systems. Diseases will be studied in relation to their etiology, pathology, physical signs and symptoms, diagnostic procedures, complications, treatment modalities and prognosis.

### HIT 150. Introduction to Medical Terminology 3 Credits (3)

The study and understanding of medical terminology as it relates to diseases, their causes and effects, and the terminology used in various medical specialties. Emphasis will be placed on learning the basic elements of medical words, appropriate spelling and use of medical terms, and use of medical abbreviations. May be repeated up to 3 credits. Crosslisted with: NURS 150, AHS 120 and BOT 150. Restricted to Community Colleges campuses only.

### HIT 158. Advanced Medical Terminology

#### 3 Credits (3)

Builds upon the concepts covered in HIT 150 or AHS 120 providing greater understanding of how to properly use and apply medical terminology used in the various health fields. Medical terminology associated with the body system's anatomy and physiology, pathology, diagnostic and therapeutic procedures, pharmacology, and abbreviations will be emphasized. Restricted to Community Colleges campuses only. **Prerequisite(s):** HIT 150 or AHS 120.

#### HIT 221. Internship I

#### 3 Credits (3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. C- or better is required for this course. Consent of Instructor required. Restricted to: BOT,HIT majors. Restricted to Community Colleges campuses

### HIT 228. Medical Insurance Billing 3 Credits (3)

Comprehensive overview of the insurance specialist's roll and responsibilities. Concepts and applications that will assist the student in understanding the steps necessary for successfully completing the insurance claim filing and reimbursement processes for various insurance carriers, both private and government, will be emphasized. Restricted to Carlsbad campus only.

Prerequisite(s): HIT/NURS 150; BOT 208.

### HIT 240. Health Information Quality Management 3 Credits (3)

Introduction to basic concepts of quality improvement and performance improvement as they apply to health record systems and the health care industry. Quality assessment and improvement standards and requirements of licensing, accrediting fiscal and other regulatory agencies will be presented.

### HIT 248. Medical Coding I

### 3 Credits (2+2P)

Comprehensive overview of the fundamentals, coding conventions, and principles of selecting the most appropriate ICD-10-CM/PCS diagnostic and procedure codes. The most recent version of ICD-10-CM/PCS and an in depth study of current Official Coding Guidelines for coding and reporting will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 228.

#### HIT 255. Special Topics

#### 3 Credits (3)

Specific topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

## HIT 258. Medical Coding II 3 Credits (2+2P)

Continuation of Medical Coding I. Comprehensive overview of the coding and reporting guidelines, fundamentals, coding conventions, and principles of selecting the most appropriate CPT and HCPCS procedural codes for all medical specialties. The most recent version of CPT and a continued study of the ICD-10-CM/PCS coding conventions and principles will be emphasized. Designed as a medical coding capstone course. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 248.

### HIT 268. Health Information Systems

### 3 Credits (3)

Overview of health data management, work planning, and organization principles; an introduction to health care information systems; and review of the fundamentals of information systems for managerial, clinical support, and information systems.

### **HLED-HEALTH EDUCATION**

### **HLED 1154. Lifeguarding**

#### 2 Credits (2)

Skills training for a nonsurf lifeguard. Course will include Standard First Aid and CPR certification. May be repeated up to 2 credits. Students must be able to Swim 500 yards, dive to 9-foot depth and retrieve a 10-pound brick, surface dive to 5 feet then swim underwater 15 yards, tread water one minute.

### **HMSV-HUMAN SERVICES**

### HMSV 2110. Case Management

#### 3 Credits (3)

This course introduces students to the concept of case management, how it is used in human services, and skills necessary to function effectively as case managers. The emphasis is on the client assessment process, service planning and delivery, and client advocacy. Topics introduced include observation, data collection, documentation, and reporting of client behaviors, identification and referral to appropriate services, monitoring, planning, and evaluation. This course provides student with basic knowledge and beginning case management skills. **Prerequisite(s):** PSYC 1110G and SOWK 2110G.

### **HNRS-HONORS**

### HNRS 1110. Journeys of Discovery

#### 1 Credit (1)

Weekly conversations among students and a faculty member; organized around a particular subject and a small selection of readings. The seminars illuminate the many paths of discovery explored by the New Mexico State University faculty.

Prerequisite(s): Honors eligible.

### HNRS 2110G. The Present in the Past: Contemporary Issues and their Historical Roots

### 3 Credits (3)

This course will take today's concerns, trends, and customs and contextualize them in the past, explaining their historical origins and development. As an example, we will examine the history of celebrity and how celebrities -- from Lord Byron to the Kardashians' made an impact on their contemporaries and the broader society of their time. This reading- and writing-intensive course will help students develop skills related to critical thinking, logical argumentation, and written and oral communication.

### HNRS 2111. Successful Fellowship Writing

#### 1 Credit (1)

Provides scholars with hands-on skills to complete proposals for scholarships and fellowships, such as the Truman, Rhodes, Marshall, Goldwater, Udall, and others. Other skills include how to write resumes, develop general research skills, and find grant and foundation sources. For freshmen and sophomores. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2114G. Music in Time and Space 3 Credits (3)

Introduction to all forms of Music. Through our auditory senses and intellectual faculties music is an ideal means for intelligent and humanistic examination of peoples and cultures, and for the enhancement of life. Types of music covered include classical, jazz, rock and roll, and world music. Music videos, live in-class performances, evening concerts, and lectures will be used as a basis for discussions and research. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

### HNRS 2115G. Encounters with Art 3 Credits (3)

A multicultural examination of the principles and philosophies of the visual arts and the ideas expressed through them. 5 or higher **Prerequisite(s)**: An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3

### HNRS 2116G. Earth, Time and Life 4 Credits (3+3P)

Covers how the earth's materials form, processes involved in changing the earth's configuration, and extent of people's dependence upon the earth's resources. Includes mineral and energy resources, development of landscapes, environmental problems, evolution of the earth and life forms. May be taken in place of GEOL 1110. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2117G. The World of the Renaissance: Discovering the Modern 3 Credits (3)

An introduction to the literature and thought of Renaissance Europe. Humanism and the Reformation will be approached through the intensive study of major writers such as Petrarch, Machiavelli, Luther, Erasmus, Montaigne, and Shakespeare. Restricted to Las Cruces campus only. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

# HNRS 2120G. Foundations of Western Culture 3 Credits (3)

Critical reading of seminal texts relating to the foundations of culture and values in Western civilization, from ancient Greece to about 1700. Focus on the development of concepts of nature, human nature, and the state. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

# HNRS 2130G. Shakespeare on Film 3 Credits (3)

How do Shakespeare's plays continue to speak to us through the medium of film? Written in a time of rapid social change, Shakespeare's plays invited audiences to think critically about the relationship between the self and others and to question conventions. Performances of Shakespeare have long been used to call out social injustice, from western anti-Semitism prior to World War II (The Merchant of Venice), to civil rights-era white supremacy in the US and apartheid in South African (Othello), and authoritarianism in the Arab Spring (Richard III). This course focuses on post-1980 Hollywood film versions of Shakespeare's plays and a few prior landmark adaptations around the world, examining how they use Shakespeare as a medium for debate and even a catalyst for social change.

### HNRS 2140G. Plato and the Discovery of Philosophy 3 Credits (3)

Examines arguments and theories found in the Platonic dialogues with a view to determining the nature and value of philosophy both from Plato's point of view and absolutely. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2141G. Bamboo and Silk: The Fabric of Chinese Literature 3 Credits (3)

Introductory survey of traditional and modern Chinese prose and poetry in translation with emphasis on genre, theme, and social/historical context. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2145G. Celtic Literature

#### 3 Credits (3)

This course provides an overview of the most important early literary works of the so-called Celtic nations, principally Ireland and Wales, from a literary and historical approach. This literature stems from the period 600-1200 and ends with the development of the Romances under influence from the French

### HNRS 2160G. New Testament as Literature

#### 3 Credits (3)

Literature of the New Testament examined from a literary perspective. Emphasis on translation history of the New Testament, generic features of gospel, epistle and apocalypse, precedent literary models, problems of authorship, classification of New Testament texts. 5 or higher **Prerequisite(s)**: An ACT score of 26 or higher; or a combination of an ACT

score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2161G. Window of Humanity

3 Credits (3)
Anthropology is the mos

Anthropology is the most humanistic of the sciences, and the most scientific of the humanities. This course will use anthropological perspectives to examine the human experience from our earliest origins, through the experiences of contemporary societies. We will gain insights into the influence of both culture and biology on shaping our shared human universals, and on the many ways in which human groups are diverse. Restricted to Las Cruces campus only. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2165. Humanities in the 21st Century 3 Credits (3)

An exploration of the humanities, of their intrinsic and extrinsic values, and of the skills and habits of mind they cultivate.

### HNRS 2170G. The Human Mind 3 Credits (3)

The primary course objective is to develop an appreciation of the variety and complexity of problems that are solved by the human mind. The course explores how problems are solved by a combined computational analysis (computational theory of mind), and evolutionary (evolution by natural selection) perspective. The mind is what the brain does (i.e. information processing) and the brain is a computational device that is a product of evolution by natural selection. Note that this is not a neuroscience course, we will be focusing on the mind (what the brain does) rather than on the brain. Restricted to Las Cruces campus only.

### HNRS 2171G. The Worlds of Arthur

#### 3 Credits (3)

Arthurian texts and traditions from medieval chronicles to contemporary literature. Emphasis on both the continuities of the Arthurian tradition and the diversity of genres, media, and cultures that have given expression to the legend. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

### HNRS 2172G. Archaeology: Search for the Past 3 Credits (3)

A critical evaluation of various approaches to understanding prehistory and history. The methods and theories of legitimate archaeology are contrasted with fantastic claims that invoke extraterrestrials, global catastrophes, transoceanic voyages, and extra-sensory perception. May be repeated up to 3 credits. Restricted to Las Cruces campus only. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2173G. Middle Ages

#### 3 Credits (3)

Intensive, interdisciplinary introduction to the thought and culture of medieval Europe. Core texts will include works by St. Augustine, Marie de France, and Dante, as well as anonymous works such as Sir Gawain and the Green Knight, all supplemented by study of medieval art, architecture, philosophy, and social history. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

# HNRS 2174G. American Politics in a Changing World 3 Credits (3)

American politics and policies examined from a historical and global perspective. Philosophical underpinnings of American national government, the structure of government based on that philosophy, and the practical implications of both the philosophical and structural base. How American government influences and is influenced by the world community. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2175G. Introduction to Communications Honors 3 Credits (3)

Study and practice of interpersonal, small group, and presentational skills essential to effective social, business, and professional interaction. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2176. Acting for Everyone 3 Credits (3)

To provide fundamental training in acting techniques, including stage voice and movement, improvisation, ensemble building, characterization, emotion exploration and basic performance analysis. The course will provide a correlation between theatre skills and everyday 'life' skills and seek to encourage an appreciation for the art of theatre.

### HNRS 2178G. Theatre: Beginnings to Broadway 3 Credits (3)

Intercultural and historical overview of live theatre production and performance, including history, literature and professionals. Students attend and report on stage productions. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2180G. Citizen and State Great Political Issues 3 Credits (3)

The fundamental questions of politics: why and how political societies are organized, what values they express, and how well they satisfy those normative goals and the differing conceptions of citizenship, representation, and freedom. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2185G. Democracies, Despots and Daily Life 3 Credits (3)

This course will offer students the chance to read firsthand accounts of ordinary citizens' lives under different political systems, from the earliest age to the present day. This reading- and writing-intensive course will help students develop skills related to critical thinking, logical argumentation, and written and oral communication.

### HNRS 2190G. Claiming a Multiracial Past 3 Credits (3)

Survey of history of the United States in the nineteenth and twentieth centuries, with an emphasis on multicultural social and cultural history. Focus on understanding American history from the point of view of dispossessed, impoverished, and disenfranchised Americans who have fought to claim both their rights as Americans and American past. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2996. Special Topics

### 1-3 Credits (1-3)

Special course offerings, with unique titles listed in Schedule of Classes. May be repeated up to 6 credits.

### **HORT-HORTICULTURE (HORT)**

### HORT 1115G. Introductory Plant Science 4 Credits (3+2P)

Introduction to the physical, biological, and chemical principles underlying plant growth and development in managed ecosystems. In the laboratory portion of the class, students perform experiments demonstrating the principles covered in lecture. The course uses economic plants and agriculturally relevant ecosystems to demonstrate basic principles. Appropriate for nonscience majors. Same as AGRO 1110G.

#### **HORT 2110. Ornamental Plants I**

#### 4 Credits (2+3P)

Covers identification, botanical characteristics, culture, and landscape uses of woody plants. Emphasis on deciduous trees, native shrubs, and evergreens.

#### **HORT 2120. Ornamental Plants II**

### 4 Credits (2+3P)

Identification, botanical characteristics, culture, and landscape uses of woody plants. Emphasis on flowering trees, cacti, and members of the pea and rose families.

# HORT 2130. Floral Quality Evaluation and Design 2 Credits (1+2P)

Critical hands-on evaluation of the quality of cut and potted floral and tropical foliage crops, their specific merits and faults, and fundamentals of floral design.

#### **HORT 2160. Plant Propagation**

#### 3 Credits (2+2P)

Practical methods of propagating horticultural plants by seed, cuttings, layering, grafting, division and tissue culture. Examination of relevant physiological processes involved with successful plant propagation techniques. Same as AGRO 2160.

#### **HORT 2990. Floriculture Field Practicum**

#### 1 Credit (1)

Participation as team member in the National Intercollegiate Floral Quality Evaluation and Design Competition. Intensive week-long travel for competition, networking with industry, academia, and floriculture tours. May be repeated for a maximum of 3 credits.

Prerequisite(s): HORT 2130 or consent of instructor.

#### **HORT 2996. Special Topics**

#### 1-4 Credits

Specific subjects and credits as announced. Maximum of 4 credits per semester and a grand total of 9 credits. May be repeated up to 9 credits. Consent of Instructor required.

# HOST-HOSPITALITY AND TOURISM (HOST)

### **HOST 155. Special Topics**

### 1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

### **HOST 201. Introduction to Hospitality Industry**

#### 3 Credits (3)

Overview of hospitality industry; organization and operation of lodging, food and beverage, and travel and tourism segments; focus on career opportunities and future trends of hospitality industry. Restricted to: Community College campuses only.

#### **HOST 202. Front Office Operations**

#### 3 Credits (3)

Hotel/motel front office procedures detailing flow of business, beginning with reservations and extending to the night audit process. Restricted to: Community College campuses only.

# HOST 203. Hospitality Operations Cost Control 3 Credits (3)

Management of Food & Beverage facilities using cost control techniques. Functional training in menu analysis and development with all phases of product flow through a Food & Beverage organization explored. Restricted to: Community Colleges only.

### **HOST 204. Promotion of Hospitality Services**

#### 3 Credits (3

Organization of hotel marketing functions; developing a marketing plan to sell the varied services of the hotel/motel property. Restricted to: Community College campuses only.

### HOST 205. Housekeeping, Maintenance, and Security 3 Credits (3)

Function of housekeeping departments, including personnel, sanitation, maintenance, and materials. A survey of security procedures to include guest protection and internal security of hotel/motel assets. Restricted to: Community College campuses only.

# HOST 206. Travel and Tourism Operations 3 Credits (3)

Transportation, wholesale and retail operations, attractions, the traveler, tourism development, and operational characteristics of tourism business. Restricted to: Community College campuses only.

# HOST 207. Customer Service for the Hospitality Industry 3 Credits (3)

Concepts of service and the customer, integrating the need for service quality, and the continuing efforts to maximize returns for the operation. Classic service styles as well as more modern service techniques are covered. Students gain in-depth managerial knowledge, planning skills, and hands-on techniques for consistently delivering quality and service in a variety of operations. Restricted to: Community College campuses only.

### HOST 208. Hospitality Supervision

#### 3 Credits (3)

Strategies for directing, leading, managing change and resolving conflict. Prepares students to meet expectations of management, guests, employees, and governmental agencies. Restricted to: Community College campuses only.

# HOST 209. Managerial Accounting for Hospitality 3 Credits (3)

Prepares students to make effective business decisions based on financial report information; forecasting, budgeting, cost analysis. Restricted to: Community College campuses only.

Prerequisite(s): BOT 120 or ACCT 2110.

# HOST 210. Catering and Banquet Operations 3 Credits (3)

Teaches the basics of catering and banquet operations, including computer coordination, planning, set up, service, and completion. Restricted to Community Colleges campuses only.

### HOST 214. Purchasing and Kitchen Management 3 Credits (3)

Technical purchasing concepts, product selection, and specifications. Safety and sanitation as they relate to food service establishments. Prepares student for work with HACCP programs. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HOST 203.

# HOST 216. Event, Conference and Convention Operations 3 Credits (3)

The ability to successfully plan, organize, arrange, and execute special events is critical to the success of many hospitality organizations. This course gives the student a grounding in the skills necessary to achieve success in this area. A variety of events are discussed and the similarities and differences with conferences and conventions are explored. Students are taught to organize and plan events of varying type and durations. Sales, logistics, and organizing skills are emphasized. Restricted to: Community College campuses only.

# HOST 219. Safety, Security and Sanitation in Hospitality Operations 3 Credits (3)

It is the responsibility of the manager to provide appropriate security, sanitation, and safety precautions in hospitality operations. Preparation for internal and external disasters is an important task for the Hospitality Manager. This course uses the National Restaurant Association ServSafe¬ training material. Restricted to: Community College campuses only.

### **HOST 220. Experiential Travel**

#### 1-3 Credits (1-3)

Course provides an opportunity for students to plan, prepare for and experience travel to destinations they might not otherwise have visited. Students experience local culture and peoples. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HOST 201 or consent of instructor.

### HOST 221. Internship I

#### 1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEHS,HOST majors.Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

### **HOST 222. Cooperative Experience II**

#### 3 Credits (3)

Continuation of HOST 221. Restricted to majors. Graded: S/U. Restricted to: Community College campuses only. Restricted to HOST majors. **Prerequisite(s):** HOST 221.

### HOST 239. Introduction to Hotel Management 3 Credits (3)

This course covers basic management functions in hotels, resorts, Boutique Hotels, Bed & Breakfast establishments, and other lodging operations. All aspects of the operation are covered including guest management, operations, and sales and marketing. Restricted to: Branch campuses only.

### **HOST 255. Special Topics**

#### 3 Credits (3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

### **HOST 298. Independent Study**

### 1-3 Credits (1-3)

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated for a maximum of 3 credits. Restricted to: Community College campuses only.

Prerequisite(s): Minimum 3.0 GPA and sophomore standing.

# HRTM-HOTEL/RESTRNT/TOURISM MGT (HRTM)

#### **HRTM 1110. Freshman Orientation**

#### 1 Credit (1)

Orientation to university life, including available resources and methods to promote success at NMSU. Open to all freshmen and transfer students. Graded S/U.

#### HRTM 1120. Introduction to Tourism

#### 3 Credits (3)

Survey of travel and tourism development and operating characteristics.

### HRTM 1130. Introduction to Hospitality Management 3 Credits (3)

Overview of the major segments of the hospitality industry, with a focus on basic management principles.

### HRTM 2110. Safety, Sanitation and Health in the Hospitality Industry 1 Credit (1)

Addresses public health, HACCP, and food safety responsibilities in the hospitality industry. Sanitation certification test allows students to receive national ServSafe Food Protection Manager Certification. Restricted to Las Cruces campus only.

# HRTM 2120. Food Production and Service Fundamentals 3 Credits (1+4P)

Basic overview of food service systems including menu management, purchasing and production. The course includes basic principles of food fabrication and production. Topics include knife skills, culinary terminology, product identification, quality standards, nutritional cooking theory and application of food preparation techniques. The course includes laboratory aspects and demonstration of basic food production techniques, service styles, practices and procedures in food service operations including culinary math. This course provides students with an understanding of food service sanitation and culinary nutrition. Completion of a national certification examination is required. Students who have not completed HRTM 2110 before enrolling in the course must have proof of valid ServSafe Food Protection Manager certificate. Restricted to Las Cruces campus only. Prerequisite(s)/Corequisite(s): HRTM 2110

Prerequisite(s): HRTM 1130 or FSTE 2110G.

### HRTM 2130. Hotel Operations I

#### 3 Credits (3)

Analysis of hotel operations to include: guest services, reservations, reception, guest/city ledger and the night audit. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

Prerequisite(s): HRTM 1130.

### HRTM 235. Hotel Operations I

#### 3 Credits (3)

Analysis of hotel operations to include: guest services, reservations, reception, guest/city ledger and the night audit. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

Prerequisite(s): HRTM 221.

### HRTM 2996. Special Topics

### 1-4 Credits

Specific subjects and credits to be assigned on a semester basis for both lecture and laboratory assignments. May be repeated for a maximum of 4 credits.

Prerequisite: consent of instructor.

# HVAC-HEATING/AC/REFRIGERATION (HVAC)

### HVAC 100. EPA Clean Air Act: Section 608 1 Credit (1)

Refrigerant certification preparation to include basics of refrigerant bearing equipment, ozone depletion and the new legislation, technician categories covered and the certification examination.

### **HVAC 101. Fundamentals of Refrigeration**

#### 4 Credits (3+2P)

Refrigeration cycle and the various mechanical components. Use of special tools, equipment, and safety precautions.

#### **HVAC 102. Fundamentals of Electricity**

#### 4 Credits (3+2P)

Introduction to electricity theory, OHM s Law, circuits, AC/DC, and practical applications.

### **HVAC 103. Electrical and Mechanical Controls I**

### 4 Credits (3+2P)

Applications of basic electrical and mechanical controls. Reading and drawing diagrams of simple refrigerating equipment. Safe use of testing equipment.

Prerequisites: HVAC 101 and HVAC 102, or consent of instructor.

### HVAC 110. Professional Development and Leadership 1 Credit (1)

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: HVAC majors. Graded: S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

### **HVAC 113. Job Shadowing**

#### 1 Credit (1)

Course will expose students to actual HVAC/R field work and provide them knowledge of the expectations of field work as they shadow an HVAC/R technician. Consent of instructor required. Restricted to: Community colleges only.

### HVAC 205. Commercial Refrigeration Systems

### 4 Credits (3+2P)

Service and maintenance of commercial refrigeration equipment to include evacuation and charging procedures, electrical diagrams, and compressors and accessories.

Prerequisites: HVAC 103 or consent of instructor.

### HVAC 207. Residential Air Conditioning Systems 4 Credits (3+2P)

Applications and types of equipment used in comfort cooling. Preventive maintenance, service, and repairs common to evaporative coolers and refrigerated air conditioning systems. Air properties and psychometrics.

Prerequisite: HVAC 103 or consent of instructor.

# HVAC 209. Residential Heating Systems 4 Credits (3+2P)

Gas and electric systems used in comfort heating. Maintenance procedures, safety, troubleshooting, and servicing malfunctions in equipment.

Prerequisite: HVAC 103 or consent of instructor.

# HVAC 210. Commercial Air Conditioning and Heating Systems 4 Credits (3+3P)

Covers troubleshooting mechanical and electrical problems associated with HVAC equipment in commercial buildings. Includes gas, electric, and heat pump systems. Restricted to Community Colleges campuses only. **Prerequisite(s)**: HVAC 103 or consent of instructor.

### HVAC 211. Heat Pump Systems

#### 4 Credits (3+2P)

Reverse cycle refrigeration systems utilized in comfort heating and cooling. Troubleshooting mechanical electrical problems associated with heat pumps. HVAC 103 or consent of instructor.

#### **HVAC 213. Practicum**

### 3 Credits (3)

Working in the field with journeymen service technicians. Develop and apply job skills. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: HVAC majors. Restricted to Community Colleges campuses only.

Prerequisite(s): HVAC 113 and Consent of instructor.

# HVAC 220. Introduction to Sheet Metal Fabrication 4 Credits (3+2P)

Introduction to sheet metal fabrication to include hands-on practical laboratory applications, cutting and forming procedures, identifying types and gauges. Design and layout techniques.

Prerequisite: OETS 118 or equivalent math or consent of instructor.

### **HVAC 225. New Mexico Mechanical Codes: HVAC**

#### 1-4 Credits

Principles and regulations developed for HVAC, sheet metal, and plumbing occupations to include terminology, ventilation air supply, exhaust systems, duct systems, combustion air, chimneys and vents, boilers/water heaters, refrigeration, panel and hydronic panel heating, fuel gas piping, storage systems, solar systems, and workmanship standards. May be repeated for a maximum of 12 credits.

#### **HVAC 255. Special Topics**

#### 1-6 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

### **HVAC 290. Special Problems**

#### 1-4 Credits

Individual studies related to heating, air conditioning, and refrigeration. **Prerequisites:** HVAC 101, HVAC 102, and consent of instructor.

### I E-INDUSTRIAL ENGINEERING (I E)

### I E 151. Computational Methods in Industrial Engineering 3 Credits (3)

History, social implications, and application of computers and an introduction to computer programming, word processing, and database management systems. Satisfies General Education computer science requirement.

Prerequisite: MATH 1220G.

#### I E 200. Special Problems-Sophomore

### 1-3 Credits

Directed individual projects. May be repeated for a total of 3 credits. **Prerequisite:** consent of faculty member.

### I E 217. Manufacturing Processes

#### 2 Credits (2)

Manufacturing methods and industrial processes which include casting, forming and machining. May be repeated up to 2 credits. Crosslisted with: E T 217. E T 110.

Prerequisite(s): MATH 1220G.

#### I E 217 L. Manufacturing Processes Laboratory

### 1 Credit (3P)

Laboratory associated with I E 217. May be repeated up to 1 credits.

Prerequisite(s): E T 110. Corequisite(s): I E 217.

# INMT - INDUSTRIAL MAINTENANCE (INMT)

# INMT 133. Process Technology and Systems 4 Credits (4)

Provides instruction in the use of common process equipment. Students will use appropriate terminology and identify process equipment components such as piping and tubing, valves, pumps, compressors, turbines, motors, engines, heat exchangers, heaters, furnaces, boilers, filters dryers and other miscellaneous vessels. Included are the basic functions, scientific principles and symbols. Students will identify components on typical Process Flow Diagrams and Process and Instrument Diagrams. Restricted to Carlsbad campus only.

# INMT 134. Maintenance Principles 4 Credits (4)

The course is an introduction to the maintenance of equipment utilizing mechanical, electrical and instrumentation concepts. Topics include: hand tools, bearing fundamentals, equipment lubrication, material handling, electrical safety, battery systems, diagrams, electrical production and distribution, transformers, breakers, switches, AC and DC motors, motor controllers and operations, and introduction to automation and instrumentation control. Restricted to Carlsbad campus only.

### INMT 165. Equipment Processes 4 Credits (4)

This course introduces power transmission equipment and machinery components, including belt/chain driven equipment, speed reducers, variable speed drives, couplings, clutches, and conveying equipment. Students will learn the operation, maintenance, and troubleshooting for these types of equipment. The course also includes Overhead Crane Certification and Safety. Restricted to Carlsbad campus only.

# INMT 205. Programmable Logic Controllers and Applications 4 Credits (4)

Students learn about programmable logic controllers; architecture; programming, interfacing, and applications. Hands-on experience on modern commercial PLC units is the main component. Restricted to Carlsbad campus only.

Prerequisite(s): BCIS 1110.

### INMT 223. Electrical Repairs

### 4 Credits (4)

This course outlines for students the types of problems that occur in electrical machinery and systems. The course covers trouble-shooting and diagnosis, preventative maintenance, and how to make necessary repairs. Restricted to Carlsbad campus only.

### INMT 235. Mechanical Drives I 4 Credits (4)

This course teaches the fundamentals of mechanical transmission systems used in industrial, agricultural, and mobile applications. Students will learn industrial relevant skills including how to: operate, install and analyze performance, and design basic transmission systems using chains, feed-belts, spur gears, bearings, and couplings. Vibration analysis will be used to determine when to perform maintenance of power transmission components. The course also covers power transmission safety, and introduction to belt and chain drives (applications, installations, and tensioning), and introduction to gear drives, coupling, and bearing, basic troubleshooting, blueprint and print reading, learning the basics of electrical drives and PDM and PM. Restricted to Carlsbad campus only.

### **INMT 236. Lubrication Process**

### 3 Credits (3)

This course teaches the technical skills needed to operate, install, tune, maintain and troubleshoot automatic lubrication systems. Lubrication concepts, setup and tuning, pneumatic pumps, series-progressive valve systems and microprocessor based lubrication controllers will be covered. The course covers the principles of and importance of lubrication, oils and grease types and applications, lube management (storage, handling, and purity), and PDM and PM. Restricted to Carlsbad campus only.

### INMT 237. Hydraulics I

#### 2 Credits (2)

This course teaches fundamentals of hydraulic systems used in industry mobile application. Students learn the basic theory of application of hydraulic and electricity as it applies to hydraulics. Covered in the course are basic systems, principles of flow, pressure, viscosity, filtration, and colling. Also covered are basic components such as motor, pumps, cylinders, piping and control and relief valves. Troubleshooting strategies are discussed, along with blueprint and print reading, and PDM and PM. Industry, relevant skills including how to operate, install, analyze performance, and design basic hydraulic systems, reviewing intermediate hydraulic components and system applications. Restricted to Carlsbad campus only.

### INMT 261. Pump Operations I 4 Credits (4)

This course teaches how to select, operate, install, maintain and repair the many types of pumps used by industry. Students learn the theory and practical application of all types of processed pumps and pipe systems. It covers types, components, and systems operation. It also covers troubleshooting for flow loss and cavitation. Students learn how to select, operate, install, maintain and repair the many types of pumps used by industry. Other topics covered include: Net Positive Suction Head, pump flow/head measurement, pressure head conversion, pressure flow characteristics, cavitation, series/parallel pump operation, mechanical seal/stuffing box maintenance, multi stage operation and construction, positive displacement pumps, turbine, diaphragm, peristaltic, piston, gear, and magnetic pump systems. Restricted to Carlsbad campus only.

### INMT 262. Piping Systems

### 2 Credits (2)

This course teaches students how to install, maintain and troubleshoot fluid systems such as how to select, size, identify, install a variety of types of piping, fittings, and valves. Measurement techniques from basic to precision measurement, gauging, including the fundamentals of demonsioning and tolerancing will taught. Restricted to Carlsbad campus only.

### INMT 263. Mechanical Drives II

### 4 Credits (4)

This course teaches the bearings and gears used in heavy duty mechanical transmission systems. This course will emphasize linear access drives, clutches, and brakes. In addition, this course teaches how to set up, operate and apply laser shaft alignment to a variety of industrial applications. This course is a study of the basic concepts and procedures for the maintenance and operations of pumps, turbines, seals, bearings, and compressors. The course will provide the student with the knowledge and skills necessary to perform proper maintenance, repair, replacement and selection of pumps, turbines, seals, bearings and compressors. Also covered are advanced gearbox, coupling and bearings, precision alignment (shaft, flange, and sheave), as well as basic vibration analysis and thermography as troubleshooting and RCA aids. Restricted to Carlsbad campus only.

#### INMT 264. Rigging

#### 2 Credits (2)

This course teaches how to safely move loads of different shapes and sizes using a variety of different methods. Students will lift loads and demonstrate how to move it. Students will use hoists, slings, ropes and fittings to learn how to safely lift a wide variety of loads. Included are weight estimation, lifting rules, load ratings (sling, wire, ropes and hoists). Restricted to Carlsbad campus only.

### INMT 265. Hydraulics II

### 2 Credits (2)

This course teaches advanced hydraulics systems. The student will learn operation of advanced hydraulic systems applications, equipment installation, performance analysis of motors and pumps, accumulators, control, relief and check valve, equipment maintenance, and system design. The course covers accumulators, sequence valves, pilot circuits and unloader valves. Students learn more troubleshooting, hydraulic drives and other applications. Restricted to Carlsbad campus only.

### INMT 267. Pump Operations II 2 Credits (2)

This course teaches the student the disassembly, inspection and reassembly of centrifugal and positive displacement pumps. This course allows the student to identify and replace worn or broken components of pumps, and learn predictive and preventive maintenance principles. Lockout of the pump will be performed in addition to measurements and alignment. Restricted to Carlsbad campus only.

# INTEGRATED NATURAL SCIENCES (NSC)

### NSC 131. General Sciences

#### 3 Credits (2+2P)

Designed for Allied Health students to explore the fundamentals of physical and life sciences.

### JAPN-JAPANESE

#### JAPN 1110. Japanese I

#### 4 Credits (4)

This course focuses on the basics of the Japanese language with a balanced approach to the development of four skills: listening, speaking, reading and writing. The course is designed to teach students to communicate with Japanese socially and to utilize culturally appropriate manners to engage in Japanese daily life. While conversational skills are emphasized, the student will also be introduced to the various Japanese scripts.

### JAPN 1120. Japanese II

### 4 Credits (4)

This course focuses on building upon the basics of the Japanese language with a balanced approach to the development of four skills: listening, speaking, reading and writing. The course is designed to teach students to communicate with Japanese socially and to utilize culturally appropriate manners to engage in Japanese daily life. Along with further developing conversational skills, the student will also continue to learn about and utilize various Japanese scripts.

Prerequisite: grade of C or better in JPNS 1110 or consent of instructor.

#### JAPN 2110. Japanese III

### 3 Credits (3)

This course is designed for students who have completed 12 credit hours or the equivalent of Japanese study. This course continues to expand vocabulary, grammar and 209 Kanji to deal with daily activities. Its objective is to teach students to communicate in a meaningful way using all four language skills: speaking, listening comprehension, reading and writing. Students will be able to manage not-complicated daily situation. Students will attain ACTFL intermediate-low level in four skills.

Prerequisite: grade of C or better in JPNS 1120 or consent of instructor.

### JAPN 2120. Japanese IV

#### 3 Credits (3)

This course is designed for students who have completed 15 credit hours or the equivalent of Japanese study. This course continues to expand vocabulary, grammar and 271 Kanji to deal with not-complicated daily situation with ease. Also students acquire a competence for Japanese pragmatic usage. This course follows ACTFL language guidelines, integrating the five C's: communication, cultures, connections, comparisons and communities, to offer the student a well-rounded classroom experience. Students will attain ACTFL intermediate-mid level in four skills.

Prerequisite: grade of C or better in JPNS 2110 or consent of instructor.

### **JOUR-JOURNALISM (JOUR)**

# JOUR 102. Grammar for Journalists 2 Credits (2)

Instruction of basic grammar, spelling and punctuation. Required for all journalism students with an ACT English score below 25, SAT Verbal below 570, or students who have not taken ACT/SAT tests. Restricted to Las Cruces campus only.

### JOUR 105G. Media and Society

#### 3 Credits (3)

Functions and organization of the mass media system in the United States; power of the mass media to affect knowledge, opinions, and social values; and the impact of new technologies.

### JOUR 110. Introduction to Media Writing

### 3 Credits (2+2P)

Preparation of copy for broadcasting, print, advertising, and public relations. Introduction to Web applications. May be repeated up to 3 credits.

**Prerequisite(s):** JOUR 102 or ACT score of 25 and above or SAT score of 570 and above.

### JOUR 201. Introduction to Multimedia

#### 3 Credits (3)

Provide students with the basic skills to produce multimedia packages using text, photos, audio and video, as well as social media for professional purposes. Intensive hands-on class using editing software such as Adobe Premiere. Adobe Audition and Photoshop. May be repeated up to 3 credits.

### JOUR 210. Newswriting & Reporting

#### 3 Credits (2+2P)

Intensive laboratory practice in writing and field reporting news for print and Internet. May be repeated up to 3 credits. Restricted to Las Cruces campus only

**Prerequisite(s):** JOUR 102 or ACT score of 25 and above or SAT score of 570 and above and JOUR 110.

### L SC-LIBRARY SCIENCE (L SC)

### L SC 100. Introduction to Libraries

#### 3 Credits (3)

Overview of libraries, including history and development, responsibilities of library personnel, types of libraries and services, and technology and trends. Restricted to Dona Ana campus only.

# L SC 110. Reference and Information Resources I 3 Credits (3)

Overview of reference services. Introduction to, and evaluation of, basic types of information resources (both print and electronic) and their application in libraries.

### L SC 111. Introduction to Information Literacy in an Electronic Environment

#### 3 Credits (3)

Introduction to the basics of the research process; the organization, location and evaluation of information using print, non-print and electronic resources. Restricted to: Community Colleges only.

### L SC 112. Introduction to Consumer Health Information Literacy in an Electronic Environment

#### 3 Credits (3)

Introduction to consumer health information literacy; the process and organization, location, and evaluation of online information. Restricted to: Community Colleges only.

### L SC 120. Cataloging Basics I: Descriptive Cataloging

### 3 Credits (3)

Introduction to descriptive cataloging. Restricted to: Dona Ana campus only.

# L SC 130. Introduction to Technical Services in Libraries 3 Credits (3)

Introduction to technical services in libraries, including acquisitions, bindery, cataloging, gifts, and serials. Restricted to Dona Ana campus only.

### L SC 140. Multimedia Materials and Presentations in Libraries 3 Credits (3)

Overview of media formats and equipment. Introduction to desktop publishing, presentations, and web-page creation applications in libraries. Restricted to: Community Colleges only.

# L SC 150. Library Services for Children and Young Adults 3 Credits (3)

Library services for children and young adults with an overview of materials, programs, and services for this population. Restricted to: Dona Ana campus only.

### L SC 154. State Children's Book Awards

#### 1 Credit (1)

Students will explore the state book award offered by their state. Students will read some of the books and plan library programs to promote the award. Restricted to: Dona Ana campus only.

# L SC 160. Introduction to Public Services in Libraries 3 Credits (3)

Introduction to public services in libraries, including circulation, inter-library loan, reference, media services, special collections, and government documents. Restricted to Dona Ana campus only.

### L SC 175. Civic Involvement in Library Science 1-3 Credits

Involvement in an organized community service project or group with a library or information technology component. Promotes awareness of volunteer and community service opportunities. May be repeated for a maximum of 6 credits. Graded: S/U. Restricted to: Dona Ana campus only.

### L SC 191. Children's Books and their Movie Adaptations 1 Credit (1)

For almost as long as there have been popular books for children in the United States, there have been dramatic adaptations of them. What is gained, and lost, when children's books are adapted for the big screen? What is the relationship-or what should the connection be-between works of children's literature and their seemingly inevitable film adaptations? Students will be expected to read several children's books and view the movies based on them and make comparisons. Restricted to: Community Colleges only.

### L SC 192. Myths and Legends in Children's Literature 1 Credit (1)

The student will explore myths and legends from diverse cultures; from European and Asian to those who have their roots in Africa and the Americas. Myths which are similar across several cultures will be compared.

### L SC 195. Mysteries for Children

#### 1 Credit (1)

In this course the student will become familiar with a wide variety of mysteries for children. Ways to use mysteries in the classroom and school library will also be covered. Restricted to Community Colleges campuses only.

### L SC 196. Historical Fiction for Children

### 1 Credit (1)

This course looks at historical fiction as a genre. Topics include: fiction vs. history, American history in children's literature, world history in children's literature, activities for using historical fiction in a school setting. Restricted to: Community Colleges only.

# L SC 200. Collection Management and Development in Libraries 3 Credits (3)

Principles of identifying, selecting, acquiring, managing, and evaluating resources for libraries. Restricted to Dona Ana campus only.

#### L SC 201. Public Libraries

### 3 Credits (3)

A study of the American public library and its place in communities. Topics may include history, philosophy, and standards, operations and procedures, governance, funding, personnel materials, user services, outreach and advocacy. Restricted to: Dona Ana campus only.

### L SC 203. School Library Media Specialist

### 3 Credits (3)

Principles and practice of managing the school library media center, with an emphasis on its specific educational mission. Topics may include collection development, classes and lesson plans, public relations, administrative procedures, and use of technology. Restricted to Dona Ana campus only.

#### L SC 210. Technology Planning in Libraries

### 3 Credits (3)

Overview of computer applications in libraries. Topics may include automated systems and electronic resources, introduction to evaluation of technology, and writing a technology plan. Restricted to Dona Ana campus only.

### L SC 220. Innovative Technology Applications for Libraries 3 Credits (3)

A look at uses for innovative technologies in libraries. Topics may include blogs, wikis, podcasting and virtual reality libraries. Restricted to Dona Ana campus only.

### L SC 221. Experiential Learning I

#### 1-3 Credits

Student is employed (paid or non-paid) in an approved work site and evaluated by their supervisor. Each credit requires a specified number of hours of on-the job work experience. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Dona Ana campus only. **Prerequisite(s):** Consent of instructor.

### L SC 230. Issues and Ethics in Libraries

#### 3 Credits (3)

Discussions of current and continuing challenges to effective library service. Topics may include copyright, censorship, intellectual freedom, Internet filtering, problem patrons, security, or other current issues. Restricted to Dona Ana campus only.

### L SC 240. Internet Resources and Research Strategies 3 Credits (3)

Introduction to retrieving and evaluating information found on the Internet and in selected Internet-accessible databases. Restricted to: Dona Ana campus only.

### L SC 250. Reference and Information Resources II 3 Credits (3)

Evaluation and use of specialized information resources to offer reference services. Emphasis is on virtual reference and other innovative techniques. Restricted to: Dona Ana campus only.

### L SC 255. Special Topics

#### 1-3 Credits

Special topics to be announced in Schedule of Classes. May be repeated for a maximum of 12 credits. Restricted to: Dona Ana campus only.

### L SC 270. Library Science Capstone

#### 3 Credits (3)

A culmination of all technical courses that are required to receive an Associate of Applied Science from the program centering around the completion of a library related project. Discussions on the role of paraprofessionals in libraries. Restricted to: Dona Ana campus only.

# L SC 275. Fundamentals of Library Supervision 3 Credits (3)

An introduction to supervision of library employees, including student assistants, to create a productive workplace. Restricted to: Dona Ana campus only.

# L SC 286. Children's Literature and the Primary Curriculum 3 Credits (3)

The student will research the use of picture books and other children's literature across the curriculum with students in kindergarten through second grade. Topics include: using literature to teach writing, using literature to teach science, using literature to teach math, using literature to teach social studies. Restricted to: Community Colleges only.

#### L SC 291. Southwestern Children's Literature

#### 1 Credit (1)

This course will introduce students to books which can teach the children visiting your library more about the people and places of the southwest. Restricted to: Dona Ana campus only.

### L SC 295. Introduction to Young Adult Literature 3 Credits (3)

The course will expose students to quality adolescent literature available for reading and study in middle and high school classes. It provides a broad survey of young adult literature and focuses on building an appreciation of literature, encouraging student reading, developing lifelong readers, and developing activities for critical thinking. Restricted to: Community Colleges only.

### L SC 296. Multicultural Books for Children and Youth 3 Credits (3)

This course explores a wide range of multicultural children's literature including: African American, Native American, Latino, Asian, Jewish, and Middle Eastern. Topics covered include: nonfiction of the cultures, historical fiction of the cultures, and contemporary literature of the cultures. Restricted to: Community Colleges only.

#### L SC 298. Independent Study

#### 1-3 Credits

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated for a maximum of 12 credits. Restricted to: Dona Ana campus only.

### LANG-LANGUAGE (LANG)

# LANG 111. Beginning Language I 4 Credits (4)

Developing language skills through study abroad for languages not offered at NMSU main campus. Specific languages to be identified with course subtitles. Main campus only.

Prerequisite: Language placement exam or consent of the instructor.

### **LAWE-LAW ENFORCEMENT (LAWE)**

# LAWE 180. Public Safety First Line Supervisor 3-6 Credits (3-6)

This course is designed to enhance public safety personnel's human resource management and reduce organizational liability. Consent of Instructor required. Restricted to Community Colleges campuses

# LAWE 201. Introduction to Juvenile Delinquency 3 Credits (3)

An introductory overview of the juvenile justice system of due process, custody, detention and release. Note: course does not meet upper division requirements towards completion of Bachelor of Science in Criminal Justice. Restricted to: Community Colleges Only.

### LAWE 202. Police Patrol Procedures 3 Credits (3)

A critical review of police procedures and the influences on police behavior; policy development, including the police role; discretion; police community interaction and arrest, search and seizure. Restricted to: Community Colleges only.

# LAWE 203. Introduction to Police Supervision 3 Credits (3)

An introductory overview of police supervision and concerns as it applies to law enforcement. (Note: Course does not meet upper division requirements toward completion of Bachelor of Science in Criminal Justice.) Restricted to: Community Colleges only.

### LAWE 204. Introduction to Homeland Security 3 Credits (3)

A historical perspective of international and domestic terrorist threats and the need to develop cohesive response policies and practices in the interest of National Security. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.]

Restricted to: Community Colleges only.

Prerequisite(s): CJUS 1110G.

### LAWE 205. Practical Field Investigations 4 Credits (3+3P)

Incorporates the current methods and techniques for the management of the crime scene, includes documentation, collection and preservation of evidence and case presentations. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.]

Restricted to Community Colleges campuses only.

Prerequisite(s): CJUS 1110G and CJUS 2140.

### LAWE 206. Traffic Enforcement and Crash Investigations 3 Credits (3)

History and development of traffic laws and regulations, including basic elements of traffic violations, detection, apprehension, impaired drivers and guidelines and procedures for effective crash investigations and reporting. Restricted to: Community Colleges only.

# LAWE 207. Legal Aspects of Law Enforcement 3 Credits (3)

An evaluation of police authority including responsibilities, civil liability, liability implications, legal obligations, legal restraints, laws of arrest, and search and seizure. Retricted to: Community Colleges only.

### LAWE 221. Law Enforcement Internship

### 3 Credits (3)

Application of knowledge, skills and abilities, in an agency as an intern and integrated member of a law enforcement affiliated agency.

Prerequisite: consent of instructor.

### LAWE 233. Practical Approach to Terrorism 3 Credits (3)

Gives responders an overall safety approach in recognizing and responding to incidents involving terrorism. Presents and overview in types of harm, explosive weapons, chemical weapons, biological weapons and radiological weapons. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.]

Restricted to: Dona Ana campus only. Crosslisted with: FIRE 233

### LAWE 255. Special Topics

### 1-3 Credits (1-3)

Introductory special topics of lower division level work that provides a variety of timely subjects and content material. Specific subjects to be announced in the Schedule of Classes. A passing grade of C- or better is required. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses

### LAWE 298. Independent Study

### 3 Credits (3)

Individual studies directed by the consenting faculty with prior approval of the department chair. A passing grade of C- or better is required. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s): Sophomore standing with a 3.0 or better GPA.

### LIBR-LIBRARY SCIENCE

### LIBR 1110. Introduction to Research

#### 1 Credit (1)

The goal of this course is to provide students with techniques and tools to become better researchers. This course introduces students to the research process, and the organization, location, and evaluation of information.

### LIBR 1111. Introduction to Information Literacy in an Electronic Environment

#### 3 Credits (3)

Introduction to the basics of the research process; the organization, location and evaluation of information using print, non-print and electronic resources; and techniques of effective personal information management in a computerized setting. Uses a combination of active and hands-on learning methods as well as lectures.

### **LING-LINGUISTICS (LING)**

# LING 2110G. Introduction to the Study of Language and Linguistics 3 Credits (3)

This course presents an introduction to the study of language through the basic aspects of linguistic analysis: the sound system (phonetics and phonology), the structure of words and sentences (morphology and syntax), and the ways in which language is used to convey meaning (semantics and pragmatics). In addition, the course will investigate how language is acquired and stored in the brain, and how differences in speech styles and dialects reflect different social and cultural backgrounds of individual speakers.

# M E-MECHANICAL ENGINEERING (M E)

### M E 159. Graphical Communication and Design 2 Credits (1+3P)

Sketching and orthographic projection. Covers detail and assembly working drawings, dimensioning, tolerance specification, and design projects.

Prerequisite(s)/Corequisite(s): MATH 1250G.

# M E 201. Supplemental Instruction to Dynamics 1 Credit (1)

Optional workshop for students in M E 237. The workshop focuses on problem solving skills associated with M E 237. Course does not count toward departmental degree requirements. May be repeated up to 1 credits. Restricted to Las Cruces campus only.

Corequisite(s): M E 237.

### M E 202. Supplemental Instruction to Thermodynamics 1 Credit (1)

Optional workshop for students in ME 240. The workshop focuses on problem solving skills associated with ME240. Course does not count toward departmental degree requirements. Restricted to Las Cruces campus only.

Corequisite(s): M E 240.

### M E 210. Electronics and System Engineering 3 Credits (2+3P)

Introduction to microcontrollers, measurement systems, motion actuators, sensors, electric circuits, and electronic devices and interfacing. Students required to work individually and in teams to design and test simple electromechanical systems. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

Prerequisite(s): MATH 1521G or MATH 1521H.

### M E 222. Introduction to Product Development 3 Credits (2+3P)

Introduction to modern methods used in the realization of products. Traditional manufacturing processes, such as metal stamping, turning, milling, and casting are reviewed. Modern methods of rapid prototyping and model making are discussed in context of computer-aided design. Techniques for joining metals, plastics, and composites are discussed. Role of quality control is introduced. May be repeated up to 3 credits. Restricted to: exclude majors.

Prerequisite(s): M E 159 or E T 110.

### M E 228. Engineering Analysis I

#### 3 Credits (3)

Introduction to engineering analysis with emphasis on engineering applications. Topics include ordinary differential equations, linear algebra, and vector calculus with focus on analytical methods. Restricted to Las Cruces campus only.

Prerequisite(s): MATH 2530G.

#### M E 234. Mechanics-Dynamics

#### 3 Credits (3)

Kinematics and dynamic behavior of solid bodies utilizing vector methods

Prerequisite(s)/Corequisite(s): MATH 2530G. Prerequisite(s): C E 233.

### M E 236. Engineering Mechanics I

#### 3 Credits (3)

Force systems, resultants, equilibrium, distributed forces, area moments, friction, and kinematics of particles. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): PHYS 1310G. Prerequisite(s):

MATH 1521G or MATH 1521H.

### M E 237. Engineering Mechanics II

#### 3 Credits (3)

Kinetics of particles, kinematics and kinetics rigid bodies, systems of particles, energy and momentum principles, and kinetics of rigid bodies in three dimensions. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 2530G. Prerequisite(s): M E 236.

### M E 240. Thermodynamics

### 3 Credits (3)

First and second laws of thermodynamics, irreversibility and availability, applications to pure substances and ideal gases.

Prerequisite: PHYS 1310G.

# M E 261. Mechanical Engineering Problem Solving 3 Credits (2+3P)

Introduction to programming syntax, logic, and structure. Numerical techniques for root finding, solution of linear and nonlinear systems of equations, integration, differentiation, and solution of ordinary differential equations will be covered. Multi function computer algorithms will be developed to solve engineering problems. May be repeated up to 3 credits.

Prerequisite(s): MATH 1521G or MATH 1521H.

### M SC-MILITARY SCIENCE (M SC)

### M SC 110. Introduction to Military Science 2 Credits (2+1P)

Introduction to the Army, the Profession of Arms, and critical thinking. Students will examine the Army Profession and what it means to be a professional in the U.S. Army. The overall focus is on developing basic knowledge and comprehension of the Army Leadership Requirements Model while gaining a complete understanding of the Reserve Officers' Training Corps (ROTC) program, its purpose in the Army, and its advantages for the student. Cadets also learn how resiliency and fitness supports their development as an Army leader. Includes a weekly lab facilitated by MSL III Cadets and supervised by Cadre. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

# M SC 110 L. Introduction to Military Science Lab 1 Credit (1P)

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 110.

### M SC 111. Introduction to Leadership 2 Credits (2+1P)

Introduction to the personal challenges and competencies that are critical for effective leadership. Students learn how the personal development of life skills such as critical thinking, time management, goal setting, and communication contribute to effective leadership. Students learn the basics of the communications process and the importance for leaders to develop the essential skills to effectively communicate in the Army. Students will begin learning the basics of squad level tactics that will be reinforced during a weekly lab facilitated by MSL III Cadets and supervised by Cadre. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

### M SC 111 L. Introduction to Leadership Lab 1 Credit (1P)

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 111.

### M SC 210. Self/Team Development 3 Credits (3+1P)

A focus on leadership and decision making. The course adds depth to the student's understanding of the Adaptability Army Learning Area. Outcomes are demonstrated through Critical and Creative Thinking and the ability to apply Troop Leading Procedures (TLP) to apply Innovative Solutions to Problems. The Army Profession is also stressed through leadership forums and a leadership self-assessment. Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during a weekly lab facilitated by MSL III Cadets and supervised by Cadre and three physical fitness sessions per week. Restricted to Las Cruces campus only.

### M SC 210 L. Self/Team Development Lab 1 Credit (1P)

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 210.

### M SC 211. Leadership in Action and Team Building 3 Credits (3+1P)

A focus on Army doctrine and team development. The course begins the journey to understand and demonstrate competencies as they relate to Army doctrine. Army Values, Teamwork, and Warrior Ethos and their relationship to the Law of Land Warfare and philosophy of military service are also stressed. The ability to lead and follow is also covered through Team Building exercises at squad level. Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during a weekly lab facilitated by MSL III Cadets and supervised by cadre and three physical fitness sessions per week. Restricted to Las Cruces campus only.

# M SC 211 L. Leadership in Action and Team Building Lab 1 Credit (1P)

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 211.

### M SC 225. Directed Studies

### 1-3 Credits

Individual directed studies under supervision of the Professor of Military Science. May be repeated up to 12 credits. Restricted to Las Cruces campus only.

Prerequisite(s): GPA 2.5 or better.

# MAT-AUTOMATION & MANUFACTURING (MAT)

# MAT 102. Print Reading for Industry 3 Credits (2+2P)

Reading, interpretation, and revisions of industrial technical drawings common to manufacturing, Aerospace, machine parts, electrical, hydraulic, and Pneumatic drawings. Interpretation of engineering drawings and related shop calculations. Introduction Crosslisted with: AERT 113. Restricted to: Community Colleges only.

# MAT 105. Introduction to Manufacturing 3 Credits (2+2P)

Introduction to manufacturing evolution from basic assembly process to modern automated processes. Covers history, employability, soft skills, quality measurements, teamwork concept, production requirements, and considerations in plan layout and design. Minimum math proficiency of CCDM 114 required or math placement into MATH 1215 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 112

### MAT 106. Applied Manufacturing Practices 3 Credits (2+2P)

Course will illustrate how various products are manufactured along with associated process. Mechanical behavior such as bending, cold worked, strained, work hardened, and heat transfer will be emphasized as well. In lab, students will learn how to make selected products starting from prints to complete projects including quality control. Crosslisted with: AERT 114. Restricted to: Community Colleges only.

### MAT 108. Metrology, Safety and Quality Control for Manufacturing 3 Credits (2+2P)

Use of measuring tools in manufacturing process and quality control. These tools include: vernier and digital micrometers, calipers, height gauges, hole gauges, pin gauges, electrical pressure/flow, temperature measuring, stress/strain measurements, and non-destructive testing (eddy currents, magnetic particle, ultrasonic, bubble emission, x-ray, Gamma ray, radiography, visual inspection, ring test, taping & Zyglo). Instruction to use of coordinate machine while covering the safety issues that pertains to these types of tools and equipment. Restricted to: Community Colleges only.

# MAT 110. Machine Operation and Safety 3 Credits (2+2P)

Introduction to the operation and safety aspects of various types of machinery and equipment, including both mechanical and electrical machines, Rigid Tubing, and Flexible Lines. Maintenance and safety operation of industrial equipment will also be covered. Restricted to: Community Colleges only. Crosslisted with: AERT 115

### MAT 130. Applied Industrial Electricity I 4 Credits (3+2P)

Electrical safety, AC and DC circuits, use and care of common measuring instrumentation, schematic and wiring diagrams, electromagnetism, National Electric Code branch circuits. Restricted to: Community Colleges only.

Prerequisite(s): MATH 1215 or ELT 120 or OETS 118.

# MAT 135. Applied Industrial Electricity II 4 Credits (3+2P)

Relationship between motor power, speed, and torque, basic application of relay circuits, motor control circuits, inductance and capacitance factors, transformers, solid state devices circuits and applications.

Restricted to: Community Colleges only.

Prerequisite(s): MAT 130.

# MAT 145. Electromechanical Systems for Non-Majors 4 Credits (3+3P)

Electromechanical system interfacing. Principles and applications of preventive and corrective maintenance procedures on automated industrial production machines using system technical and maintenance manuals to develop troubleshooting procedures using systems block and schematic diagrams.

Prerequisite: consent of instructor.

#### MAT 221. Cooperative Experience I

### 1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and rated by employer and instructor. Student meets in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

### MAT 234. Industrial Electricity Maintenance 3 Credits (2+2P)

Introduction into electrical systems, theory and uses for the different types of motors used in the industry and related industrial safety practices. DC, AC stepper and servo motors, motor speed and torque, motor performance, and efficiency, motor control fundamentals using variable frequency drives, vector controls, servo and stepper drives. Restricted to: Community Colleges only.

#### MAT 265. Special Topics

#### 1-6 Credits

Course subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

### **MATH-MATHEMATICS (MATH)**

A student may not receive credit for a lower-division mathematics course if it serves as a prerequisite to a lower-division math course that the student had previously passed with a grade of C- or better.

Students without adequate placement to enroll in MATH 1134, MATH 1215 or MATH 1130G can gain admission to the course by earning a C- or better in CCDM 114 N at an NMSU Community College campus, or in A S 103

Students wishing to enroll in MATH 1220G, MATH 1430G, MATH 1511G, MATH 1521G, or MATH 1350G must satisfy one of the following:

- 1. have passed the stated prerequisite course or an equivalent transfer course with a C- or better
- have placed into the course with an adequate ACT Math score or through the Mathematics Placement Examination (MPE), the results of which will be made available to the student's advisor. The MPE is given daily in Walden Hall when school is in session and during new student orientation programs.

### MATH 1130G. Survey of Mathematics 3 Credits (3)

This course will develop students' ability to work with and interpret numerical data, to apply logical and symbolic analysis to a variety of problems, and/or to model phenomena with mathematical or logical reasoning. Topics include financial mathematics used in everyday life situations, statistics, and optional topics from a wide array of authentic contexts. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in CCDM 113 N or CCDM 114 N or A S 103 or higher

# MATH 1134. Fundamentals of Elementary Mathematics I 3 Credits (3)

Numbers and the four operations of arithmetic. Understanding and comparing multiple representations of numbers and operations, in particular how these representations build from whole numbers to integers to fractions and decimals. Applying properties of numbers and operations in contextual situations. Reasoning, communicating, and problem solving with numbers and operations. Applications to ratio, and connections with algebra. Taught primarily through student activities and investigations. Restricted to: EDUC,EPAR,E ED,ECED majors. Prerequisiste(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1215 or higher

#### MATH 1215. Intermediate Algebra

#### 3 Credits (3)

A study of linear and quadratic functions, and an introduction to polynomial, absolute value, rational, radical, exponential, and logarithmic functions. A development of strategies for solving single-variable equations and contextual problems. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in CCDM 113 N or CCDM 114 N or A S 103 or higher

### MATH 1217. General Supplemental Instruction I 1 Credit (2P)

Collaborative workshop for students enrolled in Intermediate Algebra. Graded: S/U Grading (S/U, Audit). Corequisite(s): MATH 1215

### MATH 1220G. College Algebra

#### 3 Credits (3)

The study of equations, functions and graphs, reviewing linear and quadratic functions, and concentrating on polynomial, rational, exponential and logarithmic functions. Emphasizes algebraic problem solving skills and graphical representation of functions. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1215 or higher

# MATH 1221. General Supplemental Instruction II 1 Credit (1+2P)

Collaborative workshop for students enrolled in College Algebra. Graded: S/U Grading (S/U, Audit).

Corequisite(s): MATH 1220G.

# MATH 1250G. Trigonometry & Pre-Calculus 4 Credits (3+2P)

Trigonometry & Pre-Calculus includes the study of functions in general with emphasis on the elementary functions: algebraic, exponential, logarithmic, trigonometric and inverse trigonometric functions. Topics include rates of change, limits, systems of equations, conic sections, sequences and series, trigonometric equations and identities, complex number, vectors, and applications.Prerequisiste(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1220G or higher

### MATH 1350G. Introduction to Statistics 3 Credits (3)

This course discusses the fundamentals of descriptive and inferential statistics. Students will gain introductions to topics such as descriptive statistics, probability and basic probability models used in statistics, sampling and statistical inference, and techniques for the visual presentation of numerical data. These concepts will be illustrated by examples from a variety of fields. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1215 or higher

# MATH 1430G. Applications of Calculus I 3 Credits (2+2P)

An algebraic and graphical study of derivatives and integrals, with an emphasis on applications to business, social science, economics and the sciences. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1220G or higher

### MATH 1435. Applications of Calculus I

#### 3 Credits (3

Intuitive differential calculus with applications to engineering. **Prerequisite(s)**: C- or better in MATH 1250G.

### MATH 1440. Applications of Calculus II

### 3 Credits (3)

Topics in this second course of Applications of Calculus include functions of several variables, techniques of integration, an introduction to basic differential equations, and other applications.

**Prerequisites:** C or better in MATH 1430G or in MATH 1521G, or in MATH 1521H.

### MATH 1511G. Calculus and Analytic Geometry I 4 Credits (4)

Limits and continuity, theory and computation of derivatives, applications of derivatives, extreme values, critical points, derivative tests, L'Hopital's Rule. Prerequsisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1250G or higher

### MATH 1521G. Calculus and Analytic Geometry II 4 Credits (4)

Riemann sums, the definite integral, antiderivatives, fundamental theorems, techniques of integration, applications of integrals, improper integrals, Taylor polynomials, sequences and series, power series and Taylor series.

Prerequisite(s): C or better in MATH 1511G.

### MATH 1521H. Calculus and Analytic Geometry II Honors 4 Credits (3+1P)

A more advanced treatment of the material of MATH 1521G with additional topics. Consent of Instructor required. Restricted to Las Cruces campus only. Consent of Department.

# MATH 1531. Introduction to Higher Mathematics 3 Credits (3)

Logic; sets, relations, and functions; introduction to mathematical proofs. **Prerequisite(s):** C- or better in MATH 1521G or MATH 1521H.

### MATH 1996. Topics in Mathematics

### 1-3 Credits

Topics to be announced in the Schedule of Classes. Maximum of 3 credits per semester. Total credit not to exceed 6 credits. Community Colleges only.

Prerequisite: consent of instructor.

# MATH 2134G. Fundamentals of Elementary Math II 3 Credits (3)

Geometry and measurement. Multiple approaches to solving problems and understanding concepts in geometry. Analyzing and constructing two- and three-dimensional shapes. Measurable attributes, including angle, length, area, and volume. Understanding and applying units and unit conversions. Transformations, congruence, and symmetry. Scale factor and similarity. Coordinate geometry and connections with algebra. Reasoning and communicating about geometric concepts. Taught primarily through student activities and investigations.

Prerequisite(s): C or better in MATH 1134.

# MATH 2234. Fundamentals of Elementary Mathematics III 3 Credits (3)

Probability, statistics, ratios, and proportional relationships. Experimental and theoretical probability. Collecting, analyzing, and displaying data, including measurement data. Multiple approaches to solving problems involving proportional relationships, with connections to number and operation, geometry and measurement, and algebra. Understanding data in professional contexts of teaching. Taught primarily through student activities and investigations.

Prerequisite(s): C or better in MATH 2134G.

# MATH 2350G. Statistical Methods 3 Credits (3)

Exploratory data analysis. Introduction to probability, random variables and probability distributions. Concepts of Central Limit Theorem and Sampling Distributions such as sample mean and sample proportion. Estimation and hypothesis testing single population parameter for means and proportions and difference of two population parameters for means and proportions. Analysis categorical data for goodness of fit. Fitting simple linear regression model and inference for regression parameters. Analysis of variance for several population means. Techniques in data analysis using statistical packages. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1215 or higher

### MATH 2415. Introduction to Linear Algebra 3 Credits (3)

Systems of equations, matrices, vector spaces and linear transformations. Applications to computer science.

Prerequisite(s): Grade of C- or better in MATH 1521G or MATH 1521H.

### MATH 2530G. Calculus III

3 Credits (3)

The purpose of this course, which is a continuation of Calculcus II, is to study the methods of calculus in more detail. The course will cover the material in the textbook from Chapters 10-14. Vectors in the plane and 3-space, vector calculus in two-dimensions, partial differentiation, multiple integration, topics in vector calculus, and complex numbers and functions.

Prerequisite(s): Grade of C- or better in MATH 1521G or MATH 1521H.

#### MATH 2992. Directed Study

1-3 Credits

May be repeated for a maximum of 6 credits. Graded S/U. **Prerequisite:** consent of the instructor.

### **MGMT-MANAGEMENT**

### MGMT 2110. Principles of Management

3 Credits (3)

An introduction to the basic theory of management including the functions of planning, organizing, staffing, leading, and controlling; while considering management's ethical and social responsibilities.

### **MKTG-MARKETING (MKTG)**

### MKTG 180. Level 1, PGA's PGM Education Program (Part 1) 3 Credits (3)

Level 1 Part 1 of the PGA PGM Education Program. Introduction to the Policies and Procedures of the PGA Golf Mgt. Program and the PGA of America. Students will complete the PGA Qualifying Level, Facility Management 1A (Tournament Ops A, Rules of Golf B, and Career Enhancement B), and the corresponding Work Experience Activities. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

### MKTG 181. Level 1, PGA's PGM Education Program (Part 2) 3 Credits (3)

Level 1 Part 2 of the PGA PGM Education Program. This class will focus on Teaching and Coaching 1, the corresponding PGA Work Experience Activities, and PGA Teaching Seminars. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

### MKTG 2110. Principles of Marketing

3 Credits (3)

Survey of modern marketing concepts and practices focusing on the marketing mix: product, pricing, promotion, and distribution strategies. Topics include: the marketing environment, consumer behavior, marketing research, target marketing, and the ethical and social responsibilities of marketers. May be repeated up to 3 credits.

Prerequisite(s): BUSA 1110.

### MKTG 280. Level 1, PGA's PGM Education Program (Part 3) 3 Credits (3)

Level 1 Part 3 of the PGA PGM Education Program. This class will focus on Facility Management 1B (Business Planning A, Customer Relations A, Golf Car A, Merchandising A, Turfgrass A), Level 1 Checkpoint Exams, and the corresponding PGA Work Experience Activities. Students will also be required to provide an internship evaluation report. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

### MKTG 281. Level 2, PGA's PGM Education Program (Part 1) 3 Credits (3)

Level 2 Part 1 of the PGA PGM Education Program. This class will focus on Teaching and Coaching 2, Teaching and Coaching Seminars, and the corresponding PGA Work Experience Activities. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

### **MUSC-MUSIC**

### MUSC 1110G. Music Appreciation: Jazz 3 Credits (3)

This course explores the ideas of music in society and its cultural relevance and is designed to increase the students' appreciation of music as well as to enhance their listening skills. Students are introduced to various periods, styles, and composers of music and become acquainted with knowledge and appreciation of Jazz from various cultures and times.

### MUSC 1130G. Music Appreciation: Western Music 3 Credits (3)

This course explores the ideas of music in society and its cultural relevance and is designed to increase the students' appreciation of music as well as to enhance their listening skills. Students are introduced to various periods, styles, and composers of music and become acquainted with knowledge and appreciation of Western music from various cultures and times.

### MUSC 1210. Fundamentals of Music for Non-majors 3 Credits (3)

A beginning course in the fundamentals of music, this course includes notation, scales, key signatures and intervals. Aural comprehension is introduced through singing intervals, scales and triads and dictating simple rhythmic and melodic patterns and students explore the basic components of music. Traditional Grading with RR.

# MUSC 1310. Recital Attendance 0.5 Credits (.5+1P)

This course is for music students to attend and participate in a good number of convocation, concert, and recital performances, creating a wider appreciation for the performing arts. May be repeated up to 4 credits. Restricted to: Music and Music Education majors. S/U Grading with RR. Restricted to Las Cruces campus only.

### MUSC 1410. Introduction to Music Education 2 Credits (2)

This course is an overview of teaching in the music classroom through readings and observations. Students will be introduced to the skills needed to become a reflective educator, develop observation techniques, and demonstrate knowledge of the current state of the profession. Restricted to Las Cruces campus only.

### MUSC 1440. Class Voice I

#### 1 Credit (1)

Group instruction in voice and vocal pedagogy for instrumental Music Education majors, offering basic principles of healthy vocal production with particular attention to diction, development of vocal range, and the ability to impart that knowledge to elementary, junior and/or high school age students. Restricted to: Music Education majors. Traditional Grading with RR. Restricted to Las Cruces campus only.

### MUSC 1450. Ear Training I

#### 1 Credit (1)

To develop the ability to accurately hear, identify, sing and notate musical elements including rhythm, melody, intervals and harmony Traditional Grading with RR. Restricted to Las Cruces campus only.

Prerequisite(s): Passing the Theory Placement exam or making a C or better in MUSC 1210.

### MUSC 1451. Ear Training II

#### 1 Credit (1)

To develop the ability to accurately hear, identify, sing and notate musical elements including rhythm, melody, intervals and harmony Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C- or better in MUSC 1450.

### MUSC 1460. Music Theory I

#### 3 Credits (3)

Introduction to vocabulary and syntax of 4-voice 18th c. chorale music through study and harmonic analysis.

**Prerequisite(s):** Passing the Theory Placement exam or making a C or better in MUSC 1210.

### MUSC 1461. Music Theory II

#### 3 Credits (3)

Expansion of vocabulary and syntax of 4-voice 18th c. chorale music through study, harmonic analysis, and part writing.

Prerequisite(s): Grade of C or better in MUSC 1460.

#### MUSC 1470. Functional Piano I

### 2 Credits (2)

Scales, chords, memorization. Harmonization of simple melodies with the ability to play simple melodies and rhythms. May be taken for unlimited credit. Restricted to music majors. No S/U option.

#### MUSC 1471. Functional Piano II

### 2 Credits (2)

Scales, chords, memorization. Harmonization of simple melodies with the ability to play simple melodies and rhythms. May be taken for unlimited credit. Restricted to music majors. No S/U option.

Prerequisite: MUSC 1470 or consent of instructor.

### MUSC 1472. Functional Piano III

### 2 Credits (2)

For music majors preparing for the Piano Proficiency Examination. May be taken for unlimited credit. Restricted to music majors. No S/U option. **Prerequisite:** MUSC 1471 or consent of instructor.

### MUSC 1992. Applied Music

#### 1-2 Credits

Private or group instruction for non-music majors, secondary instruments, and music majors preparing for 200-level applied music. May be taken for unlimited credit.

### MUSC 2110. Chamber Ensemble

#### 1 Credit (1)

This course is an exploration of chamber ensembles, allowing students to develop their abilities with their instruments in a group setting. Students will gain a broader understanding of chamber ensemble through study of musical history, as well as various practice exercises and performances. May be repeated up to 16 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** by audition only.

#### MUSC 2120. Major Ensemble

### 1 Credit (1)

This course is an exploration of major ensembles, allowing students to develop their abilities with their instruments in a group setting. Students will gain a broader understanding of major ensemble through study of musical history, as well as various practice exercises and performances. May be repeated up to 10 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** by audition only.

### MUSC 2130. Jazz Ensemble

#### 1 Credit (1)

This course is an exploration of jazz ensembles, allowing students to develop their abilities with their instruments in a group setting. Students will gain a broader understanding of jazz ensemble through study of musical history, as well as various practice exercises and performances. May be repeated up to 10 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** By audition only.

#### MUSC 2132. Percussion Ensemble

### 1 Credit (1)

Study and performance of contemporary percussion ensemble literature. May be repeated up to 5 credits. Restricted to Las Cruces campus only. **Prerequisite(s)**: by audition only.

### MUSC 2151. An Introduction to World Music, Jazz and Music Research 3 Credits (3)

Introduces world music and jazz within a historical and cultural context, considering significant musical figures, forms, genres, styles, and representative works. A major component will be the development of effective research and scholarly writing skills for the music major or minor. May be repeated up to 3 credits. Restricted to: Music majors and minors. majors. Restricted to Las Cruces campus only.

### MUSC 2210. Diction I

### 2 Credits (2)

This course is designed to prepare students for singing in multiple languages using concepts of the International Phonetic Alphabet. Students will work to master the basics of phonetic singing to improve their overall musical abilities. Restricted to Las Cruces campus only.

### MUSC 2220. Diction II

### 2 Credits (2)

This course serves as a continuing study in the concepts of the International Phonetic Alphabet. Students will continue to improve and practice their diction to develop their singing and musical abilities in order to begin the mastery of lyric diction. Restricted to music majors. Restricted to Las Cruces campus only.

Prerequisite: MUSC 2210 or consent of instructor.

## MUSC 2240. Music History and Literature: Antiquity through Baroque 3 Credits (3)

Surveys Western art music within a historical and cultural context, considering significant musical figures, forms, genres, styles, and representative works from antiquity through the end of the Baroque era. An additional emphasis will be given to effective research and scholarly writing skills. Restricted to: M ED,MUSC majors.

Prerequisite(s): A grade of C- or better in MUSC 1450, 1460, and 2151.

### MUSC 2310. Sound and Music Technology

#### 1 Credit (1)

This course serves as an overview of current technologies and principles for the recording and production of sound, and the use of computer-based technologies for the production of music. Restricted to: MUSC,M ED majors. Traditional Grading with RR. Restricted to Las Cruces campus only.

Prerequisite(s): MUSC 1460.

#### MUSC 2451. Ear Training III

#### 1 Credit (1)

Continuation of MUSC 1451, advanced sight singing, dictation. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C- or better in MUSC 1451.

#### MUSC 2452. Ear Training IV

#### 1 Credit (1)

Continuation of MUS 2451, advanced sight singing, dictation. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C or better in MUSC 2451 and MUSC 2460.

### MUSC 2460. Music Theory III

#### 3 Credits (3)

Analysis of Baroque and Classical Music. Vocabulary and syntax of 18th and 19th c. Western art music through study, chordal/formal analysis, and composition. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C or better in MUSC 1461.

### MUSC 2461. Music Theory IV

### 3 Credits (3)

Analysis of Romantic, Post-Romantic, Impressionist, and Twelve-Tone Music. Vocabulary and syntax of late 19th and early 20th c. Western art music through study, micro/macro analysis, and composition. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C or better in MUSC 2460.

#### MUSC 2470. Functional Piana IV

### 2 Credits (2)

For music majors preparing for Piano Proficiency Examination. May be taken for unlimited credit. Restricted to music majors. No S/U option. **Prerequisite:** MUSC 1472 or consent of instructor.

#### MUSC 2510. Applied Music I

### 1-4 Credits

Individual instruction to develop technique, musicianship, performance and improvisational skills, as well as knowledge of significant repertoire. May be repeated up to 16 credits. Consent of Instructor required. Restricted to: Music and Music Education majors. Traditional Grading

with RR. Restricted to Las Cruces campus only.

Prerequisite(s): Audition.

#### MUSC 2993. Opera Workshop

#### 1 Credit (1)

Study, translation, analysis, rehearsal and performance of opera. May be repeated up to 10 credits. Restricted to Las Cruces campus only. **Prerequisite(s)**: by audition only.

### MUSC 2996. Special Topics I

#### 1-3 Credits

Emphasis on special areas of music; designed for highly motivated students. May be taken for unlimited credit.

### **NA - NURSING ASSISTANT (NA)**

### NA 101. Nursing Assistant Theory and Lab 6 Credits (5+3P)

Nurse aide skills with emphasis on a bio-psychosocial-cultural approach to client care. Practice of these skills is provided in the laboratory as well as at a clinical site. Successful completion of the course prepares and qualifies the student to take the NACES certification examination. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

**Prerequisite(s):** (CCDR 110N with C or better OR appropriate placement score) and (CCDE 110N with C or better OR appropriate placement score) and (CCDM 103N with C or better OR appropriate placement score).

### NA 102. Sterile Processing Technician 4 Credits (3+3P)

This course will prepare the student to work as a Sterile Processing Technician, performing critical functions that support both the hospital and Operating Room. The student will learn about infection control, instrument reprocessing, decontamination, disinfection, and sterilization. All critical aspects of sterile processing will be covered to include applicable standards and regulations. This field is constantly evolving and those desiring to work in this profession must ensure that they stay abreast of the science behind the discipline. Restricted to Community Colleges campuses

**Prerequisite(s):** CCDE 110 N General Composition Placement exam scores, or specific course work.

### NA 104. Nursing Assistant Fundamentals 3 Credits (3)

This course prepares students for employment as a Nursing Assistant in a Long Term Care Facility. Theory and basic nursing care skills will be taught with an emphasis being placed on the psychosocial-cultural approach to client care. Students will learn communication skills, basic anatomy and physiology, growth and development, infection control, body mechanics, basic nutrition, client/resident elimination needs, the client/resident unit, vital signs, range of motion exercises, bed making, rehabilitation and restorative care, client admission and discharge, common health problems, dealing with death and dying, and basic medical terminology. NA 104 and NA 104L (laboratory) must be successfully completed with a C- or better in order to continue to NA 105 Nursing Assistant Clinical. NA 105 must also be successfully completed with a C- or better to be eligible to take the state certification competency examination. Attendance is required to meet the federal requirements for training hours and content prior to direct contact with a patient/resident and the state competency examination. Students must test out of all CCDE and CCDR courses and eligible to take ENGL 1110G to enroll in this course. Restricted to Community Colleges campuses only.

Corequisite(s): NA 104 L.

### NA 104 L. Nursing Assistant Fundamentals Lab 1 Credit (3P)

This course prepares students for employment as a Nursing Assistant in a Long Term Care Facility. Students will learn and demonstrate personal care skills including bathing, grooming, dressing, toileting, assisting with eating and hydration, skin care, transfers and positioning. Students will also learn and demonstrate the use of assistive devices, and how to maintain resident safety, dignity and privacy. NA 104 & NA 104L must be successfully completed with a C- or greater in order to continue to NA 105 Clinical. NA 105 must be successfully completed with a C- or greater to be eligible to take the state certification competency examination.

Prerequisite(s)/Corequisite(s): NA 104. Prerequisite(s): English COMPASS score of 35 or greater or CCDE 110N, and reading COMPASS score of 55 or greater or CCDR 105N. Restricted to Community Colleges campuses only.

### NA 105. Nursing Assistant Clinicals 4 Credits (3+3P)

Extension of basic fundamentals of personal care, including theory, skills and clinical experience leading to the certified Nursing Assistant Examination at the conclusion of the semester. Continuation of NA 104. Requires a C or better to pass. Restricted to: Community Colleges only. **Prerequisite(s):** C or better in NA 104 or consent of instructor.

### NA 109. Phlebotomist Basic 4 Credits (2+4P)

This course provides the latest information, techniques, skills, and equipment for blood and specimen collection based on the standards of the Clinical and Laboratory Standards Institute, Needlestick Prevention Act, Joint Commission 2008 National Patient Safety Goals, OSHA and CDC. An advanced skills lab is included in the course to provide a 'hands-on' practice experience and a 30 hour practicum in a supervised work environment collecting blood and specimens on actual patients for laboratory tests. Attendance is mandatory. Prepares students for employment as a phlebotomist in health care settings. Requires a 'C' or better to pass. Upon successful completion of the course, student has the opportunity to test for National Healthcareer Certification. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): BIOL 1130 or BIOL 2225. Restricted to Community Colleges campuses only.

# NA 110. Electrocardiogram Technician Basic 4 Credits (3+3P)

Prepares students for employment as an Electrocardiogram Technician. Includes basic theory of the cardiovascular system, cardiac rhythm interpretation, 12 lead ECG lead placement, and ECG equipment trouble shooting. The course includes an advanced skills laboratory for 'handson' practice and 16 hours of supervised clinical in the work environment assisting with ECG testing. Attendance is mandatory. Course requires a grade of 'C' or better to pass. Upon successful completion of course, student has the opportunity to test for National Healthcareer Certification. Restricted to Community Colleges campuses only. Prerequisite(s): BIOL 1130 OR BIOL 2210 & BIOL 2225.

# NA 111. Alzheimer/Dementia Care Focus 3 Credits (3)

Students will learn respectful care of Alzheimer/Dementia persons while ensuring their dignity, maximizing safe independence focusing on strengths and abilities.

**Prerequisite(s)/Corequisite(s):** NA 104 or NA 101. Restricted to: Community Colleges only.

# NA 113. Sterile Processing Practicum 5 Credits (1+4P)

This course will allow students to get hands on training in the Sterile Processing Department. They will perform critical functions learned in the Sterile Processing Technician course. They will apply principles of medical asepsis and infection control and by the end of the practicum be able to independently function in all work areas of the Sterile Processing Department. This field is constantly evolving and those desiring to work in this procession must ensure that they stay abreast of the science behind the discipline. Restricted to Community Colleges campuses Prerequisite(s)/Corequisite(s): NA 102. Prerequisite(s): CCDE 110 N.

# NA 115. Phlebotomist Technician 6 Credits (3+6P)

Basic theory and skills of phlebotomy following OSHA and Center for Disease Control guidelines. Prepares students for the requirements of testing for the ASCP certification exam and employment in a healthcare organization as a phlebotomist in licensed settings. Laboratory hours include infection control skills & practice, patient assessment & teaching, and practice in venipuncture. Clinical time includes clinical laboratory processes and operations, patient assessment, venipuncture, and exposure to clinical policies and procedures. Upon successful completion students are workforce ready.

**Prerequisite(s)/Corequisite(s):** OEEM 101. Restricted to Community Colleges campuses only.

### NA 204. Patient Care Technician 4 Credits (3+3P)

This course will prepare Certified Nursing Assistants (CNAs) to work in the acute care setting through an expansion of their existing basic skill set. Students will acquire expanded acute care skills, critical thinking skills, and knowledge in caring for patients of all ages. Currently CNA certified. Restricted to Community Colleges campuses only.

**Prerequisite(s):** (NA 104, NA 105, NA 109, NA 110, AHS 120, and (BIOL 1130 or (BIOL 2210 & BIOL 2225)).

Corequisite(s): NA 205.

# NA 205. Patient Care Technicians Practicum 4 Credits (1+9P)

This course will prepare Certified Nursing Assistants (CNAs) to work in the acute care setting through an expansion of their existing basic skill set. Students will acquire expanded acute care skills, critical thinking skills, and knowledge in caring for patients of all ages. Students will go to acute care settings to practice newly acquired skills. Must have a 'C' or better to pass. Restricted to Community Colleges campuses only.

Prerequisite(s): (NA 104, NA 105, NA 109, NA 110, AHS 120, & (BIOL 1130 or (BIOL 2210 & BIOL 2225))) Currently CNA Certified.

Corequisite(s): NA 204.

# NA 209. Phlebotomy Laboratory Technician 4 Credits (2+4P)

A continuation of NA 109, Phlebotomy Basic. This course furthers the experience, knowledge and skills of the phlebotomist by providing advanced specimen collection techniques, skills to assist with lab management, patient data processing, quality control measures, and customer service. Completion of thirty clinical hours and fifty successful venipunctures are required. Attendance in mandatory. Requires a final grade of 'C' or better to pass. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s)/Corequisite(s): ENGL 1110G or ENGL 1110H or ENGL 1110M. Prerequisite(s): (BIOL 1130 or BIOL 2310 & BIOL 2225), and AHS 120, and NA 109.

### NA 210. Administrative Procedures for Medical Assistants 4 Credits (4)

This course will provides students with the administrative procedures needed for a medical assistant. Skills will include creating awelcoming environment, cultural considerations, office safety, opening and closing procedures, computer operation andmanagement, written and telephonic communications, financial procedures, patient scheduling, medical record management, andmedical insurance, billing, and coding. Restricted to Community Colleges campuses

Prerequisite(s)/Corequisite(s): NA 212. Prerequisite(s): MATH 1215, and ENGL 1110G, and AHS 120, and BIOL 1130 or BIOL 2225.

# NA 212. Medical Assistant Capstone Course 6 Credits (6)

This course provides the student with entry-level theory and limited 'hands-on' training in basic and routine clinical office tasks. The course will equip the Medical Assistant (MA) student with the competencies required to perform in a medical office under the direct supervision of a physician. The graduate will be able to assist the physician with physical exams, ECGs, phlebotomy, and minor surgical procedures. CNA Certification within the last 5 years.

**Prerequisite(s):** NA 105, NA 110, NA 109, AHS 120, BIOL 1130, BOT 208, HIT 228, HIT 248.

### NA 214. Medical Assistant Practicum 6 Credits (1+6P)

This course is the practicum for NA 212 Medical Assistant Fundamentals Capstone Course. Students will prepare for a career as a medical assistant in medical offices and clinics. During practicum students will observe and participate in 180 hours in a supervised work environment using knowledge and skills learned in NA 212. This course includes weekly post-practicum conferences with the instructor. The student will be evaluated by both the employer and the instructor. Requires a 'C' or better to pass. Upon successful completion the student may be eligible to test for National Certification. Students who have been CNA Certified within the last 5 years can use this to enroll into this course. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): NA 212. Prerequisite(s): NA 105, NA 110, NA 109, AHS 120, BIOL 1130, BOT 208, HIT 228, HIT 248. Restricted to Las Cruces campus only.

### NAV-NAVAJO (NAV)

### NAV 101. Introduction to Navajo Studies 3 Credits (3)

Covers geography, demography, institutions of modern Navajo society with historical overview. Restricted to: Community Colleges only.

### NAV 111. Elementary Navajo I

### 4 Credits (4)

Navajo for beginners with emphasis on speaking skills.

**Prerequisite:** not open to Navajo-speaking students except by consent of instructor.

### NGEC-NATURAL GAS ENGINE COMP

# NGEC 133. Natural Gas Engine Repair Technology 5 Credits (5)

This course will cover the engine fundamentals, cylinder head and valve trains, engine block, engine servicing, lubrication and cooling Systems. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

### NGEC 175. Natural Gas Compression Technology I 4 Credits (4)

This course delivers an introduction to the theory, application, rotary, and centrifugal natural gas compressor including operating principles, maintenance, and repair of the reciprocating, identification of the component parts and their functions, methods of balancing, and lubrication systems, and design characteristics. This course will also include calculations of gas flow, compressor sizing, rod loads, compressor analysis charts and horsepower ratings. In addition, this course will cover safety, precision measurement, use of the manuals, use of tools, and proper adjustments will be included with overhaul exercises. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

### NGEC 185. Natural Gas Compression Technology II 4 Credits (4)

This course delivers the principles of operation for natural gas engines and compressors. It includes process of startup and shutdown of natural gas compressor skid. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

Prerequisite(s): Grade of C or better in NGEC 175.

### NGEC 245. Natural Gas Engine Management and Control Technology 5 Credits (5)

This course delivers operational and application studies of Engine Management System Fundamentals, Sensors, Engine Inspection, and Engine Management Fault Investigation. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

# NGEC 246. Fuel and Emissions Technology 5 Credits (5)

This course delivers operational and application studies of fuel components and emissions control system. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

### NGEC 295. Special Topics 2 Credits (2)

Topics are to be announced in the Schedule of Classes. The topic and project are to be discussed and implemented between faculty member and student. Student gives presentation to class at the end of the term of study. All-Natural Gas Compression Technology classes in the NGEC Program must be completed or in progress before enrolling in this course. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

### **NURS-NURSING (NURS)**

### NURS 110. Independent Study 1 Credit (1)

This Freshman seminar provides an introduction to the university and its resources, an orientation to the pre-nursing curriculum, and overview of concepts for professional nursing practice. Emphasis is placed on exploring the nurse's role as an integral member of the healthcare team across multiple contexts and settings, and developing a professional identity. Consent of Instructor required.

### NURS 120. Introduction to Pharmacology 3 Credits (3)

General principles of pharmacology including methods of administration, effect on the body, interactions with other drugs, and classification of drugs. Focus on the health care provider's role in safe pharmacologic intervention. May be repeated up to 3 credits. Crosslisted with: HIT 120. Restricted to Community Colleges campuses only.

# NURS 130. Foundations of Pharmacology 3 Credits (3)

This course provides the nursing student with an introduction to the foundations of pharmacology including: science of drug action, principles of medication administration, accurate calculation of drug doses, medication therapy across the lifespan, application of medications to treat health alterations, normal and adverse responses by the client to medication therapy, medication safety, medication regulation, national patient safety goals, and appropriate nursing interventions to achieve the desired goals of medication therapy. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: Community Colleges only.

Corequisite(s): NURS 147 & NURS 149. Restricted to: NUR majors.

### NURS 134. Foundation of Nursing Skills and Assessment 3 Credits (1+6P)

This course provides nursing students with introductory nursing knowledge related to performance of nursing skills and assessment including: techniques of fundamental nursing care, basic and intermediate nursing skills, and foundational physical assessment techniques associated with care across the lifespan. Open to students who have been accepted into the nursing program. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

**Corequisite(s):** NURS 136 & NURS 137 or permission of the Program Director.

### NURS 136. Foundations of Nursing Practice 6 Credits (4+6P)

This course will introduce the nursing student to foundational theoretical concepts of professional nursing practice, the nursing process, and foundational nursing skills. It includes developmental concepts related to clients across the lifespan. Clinical experiences in the simulation lab, long-term care, the community, and rehabilitation settings will provide the student with the opportunity to apply learned skills to provide total care to meet needs of one adult client and to develop care planning skills related to actual problems. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only. Corequisite(s): NURS 134, NURS 137.

# NURS 137. Care of Geriatric Patient 3 Credits (3)

This course will introduce the nursing student to foundational concepts of age-appropriate/specific care of the older adult who represents the largest population of individuals placing demands on the healthcare system. It includes basic and complex concepts and issues related to care of the older client across the care continuum, provision of cost-effective care in a resource sparse environment. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the nursing program to enroll in this course. Restricted to: NURS majors. Restricted to Community Colleges campuses only.

Corequisite(s): NURS 134 & NURS 136.

# NURS 140. Pathophysiology for Allied Health Professionals 3 Credits (3)

Introduction to the nature of disease and its effect on body systems. Deals with the disease processes affecting the human body via an integrated approach to specific disease entities. Includes a review of normal functions of the appropriate body systems. Diseases are studied in relationship to their etiology, pathology, physical signs and symptoms, diagnostic procedures, complication, treatment modalities, and prognosis. Restricted to Allied Health and Health Information Technology majors. Restricted to:Community Colleges only.

## NURS 146. Common Health Deviations 6 Credits (4+6P)

Common health deviations and the manner by which they alter various body functions are explored. The role of the licensed practical nurse in assisting clients with common health deviations is presented. Ethical and legal implications and the role of the practical nurse are also considered. The licensed practical nursing student will utilize the application of knowledge to client care situation both in the subacute and acute care settings. The nursing process is presented as guide for coordinating client care. Grade of C or better. May be repeated up to 6 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only. Prerequisite(s): NURS 153, NURS 156, NURS 154, NURS 157, and NURS 210 or consent of program director.

### NURS 147. Adult Health I 6 Credits (4+6P)

This course focuses on application of the nursing process and theoretical concepts of care for adults with commonly occurring health problems. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to continue development of: prioritization skills, proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, care planning skills related to patient actual, psychosocial, and potential problems in the delivery of total nursing care to meet needs of one adult client. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to Community Colleges campuses only.

Corequisite(s): NURS 130, NURS 147 lab, & NURS 149.

# NURS 149. Mental Health Nursing 3 Credits (2+3P)

This course will allow the nursing student to develop skills necessary to provide nursing care for clients with mental health problems in various health care settings including: common mental health disorders, psychosocial dysfunction, psychosocial safety/substance abuse issues, violence, suicide, restraints, developmental age related pathophysiology, psychopharmacology, cultural/religious considerations, grief/loss, promotion of mental health, and therapeutic communication. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to develop ability to develop: proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, care planning skills related to patient actual, psychosocial, and potential problems in the delivery of total nursing care to meet needs of one client across the life span with acute/chronic mental health needs. Students must be concurrently enrolled in both the lecture and lab sections of this course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program in order to enroll in the course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 130, NURS 147, & NURS 149L.

### NURS 150. Medical Terminology 3 Credits (3)

Understanding of the basic elements of medical words. Use of medical abbreviations. Same as OEHO 120 and BOT 150. May be repeated up to 3 credits. Crosslisted with: BOT 150, AHS 120 and HIT 150.

### NURS 153. Medication and Dosage Calculation 1 Credit (1)

Techniques of dosage calculation for medication and fluid administration. RR applicable. Students must meet NMSU basic skills requirement in mathematics to enroll in this course.

Corequisite(s): NURS 156 and NURS 154.

### NURS 154. Physical Assessment

### 2 Credits (2)

Beginning techniques of physical assessment by systems will be presented using the nursing process as a guide for providing safe client centered care throughout the life span. Grade of C or better is required. May be repeated up to 2 credits. Restricted to: NURSING majors.

Restricted to Carlsbad campus only. **Prerequisite(s):** BIOL 1130 or BIOL 2210. **Corequisite(s):** NURS 153,NURS 156.

#### **NURS 155. Special Topics**

### 1-4 Credits

Specific subjects to be announced in the Schedule of Classes.

# NURS 156. Basic Nursing Theory and Practice 6 Credits (4+6P)

Introduction to the nursing profession and the beginning skills of nursing practice as it relates to normalcy. The nursing process is presented as a means of guiding the student in providing safe client centered care. Ethical and legal aspects of nursing practice are also included. Basic clinical nursing skills will be presented and practiced in the nursing lab. The student will perform these skills with clients in an actual health care setting. May be repeated up to 6 credits. Consent of Program Director requires. Restricted to: NURSING majors. Restricted to Carlsbad campus only.

Corequisite(s): NURS 153, NURS 154.

# NURS 157. Maternal/Child Health Deviations 8 Credits (6+6P)

The concepts and principles of nursing care of the family from conception to adolescence. Utilizing the nursing process, the student provides safe client centered care to diverse clients and families. Theoretical instruction is applied to client care situation. Students collaborate with clients, families and the interdisciplinary team in meeting health care needs. Experiences may occur in any of the regional health care facilities. Grade of C or better required. May be repeated up to 8 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 156, NURS 153, and NURS 154.

Corequisite(s): NURS 210.

### **NURS 201. Special Topics**

#### 1-4 Credits

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 10 credits. Restricted to: Community Colleges only.

Prerequisite: admission to the nursing program.

### NURS 209. Independent Study

#### 1-4 Credits

Individual studies to meet identified student needs. May be repeated for a maximum of 10 credits. Restricted to: Community Colleges only.

Prerequisite: admission to the nursing program.

# NURS 210. Pharmacological Requisites of the Childbearing Family 1 Credit (1)

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care will be discussed focusing on medications commonly utilized with the childbearing family. Medication classes to be discussed include labor and delivery, analgesic, vitamins, respiratory, gynecological, endocrine, and anti-microbial/anti-infective drugs. Grade of C or better required. Restricted to: Carlsbad campus only.

**Prerequisite(s):** BIOL 2210 and BIOL 2225 and NURS 153, NURS 154 and NURS 156.

Corequisite(s): NURS 157.

# NURS 211. Pharmacological Requisites of Simple Health Deviations 1 Credit (1)

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care are addressed focusing on medications related to the psychiatric, gastrointestinal, musculoskeletal, gynecological, hematological, and anti-neoplastic client. Grade of C or better required. Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 2210 and BIOL 2225 and NURS 153,NURS 154,

NURS 156, NURS 157 and NURS 210. Corequisite(s): NURS 246 and NURS 258.

### NURS 212. Pharmacological Requisites of Complex Health Deviations 1 Credit (1)

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care is examined focusing on medications related to complex health deviations. Drug classes to be discussed include cardiovascular, renal, endocrine, and neurological. Grade of C or better required.

Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 2210 and BIOL 2225, and NURS 153, NURS 154, NURS 156, NURS 157, NURS 246, NURS 258, NURS 210 and NURS 211. Corequisite(s): NURS 256 and NURS 260.

### NURS 224. Maternal Child Nursing 5 Credits (4+3P)

This course provides the intermediate nursing student with an in-depth review of care of the childbearing woman, family structures and roles, and nursing care of the child from birth through adolescence. Emphasis includes the care of pre-partum, intra-partum and postpartum clients, the neonate and health deviations in pediatric clients. Clinical experiences in the simulation lab, the community, and acute care settings will provide the student with the opportunity to apply learned skills to provide total care to meet needs of up to two adult, neonatal, or pediatric clients and to apply care planning skills related to actual, psychosocial and potential problems. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 235, & NURS 236.

### NURS 226. Adult Health II 6 Credits (4+6P)

This course focuses on application of nursing process and theoretical concepts of care for adults with complex health alterations. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to apply: prioritization skills, maintain proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, and care planning skills related to patient actual, psychosocial, and potential problems in the delivery of nursing care to meet needs of three adult clients. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 224 & NURS 235.

### NURS 235. Nursing Leadership and Management 1 Credit (1)

This course introduces the intermediate nursing student to professional practice principles of nursing leadership and management including: health policy and politics, fiscal management & budgeting, conflict management, decision making, interdisciplinary practice, working with teams, roles in disaster planning and management, application of standards of care to risk management, organization of care delivery, health care systems, processes, and practice environments. May be repeated up to 1 credits. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to Community Colleges campuses only.

Corequisite(s): NURS 224, NURS 226.

# NURS 236. Nursing Preceptorship - Adult Health III 6 Credits (2+12P)

This course is the final course involving care of the patient with acute or chronic illness. It focuses on care of patients with complex or multisystem problems allowing the graduating nursing student to discuss and apply all the skills learned in previous nursing courses. After successfully passing the HESI exam, students have clinical practice with preceptor in various health care settings. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to: organize care of a group of clients, maintain proficiency in performance of nursing skills, collaborate with clients, families, peers and health care team members, and support care planning skills related to patient actual, psychosocial, and potential problems in the delivery of nursing care to meet needs of the preceptors group of clients. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program and have successfully completed all level 1, 2 and 3 nursing courses may enroll in this course. Clinical may include inpatient or outpatient care, days, evenings, nights, or weekend experiences. Students are required to work the preceptors assigned schedule. NCLEX Review must be done concurrently. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 201.

### NURS 246. Health Deviations I 7 Credits (4+9P)

Introduction to medical/surgical clients, whose health care needs are routine and predictable. Focus is on simple health deviations, including concepts relative to health promotion and maintenance. The nursing process is utilized to provide evidenced based, safe client centered care. Students are expected to apply clinical judgment, communicate and collaborate with clients and the interdisciplinary team in providing care for a group of two to three clients. Grade of C or better required. May be repeated up to 7 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

**Prerequisite(s)**: NURS 153, NURS 156, NURS 154, NURS 157 and NURS 210.

Corequisite(s): NURS 211, NURS 258.

### NURS 256. Health Deviations II 8 Credits (4+12P)

Concepts and principles applied to clients with complex health deviations. Building upon knowledge gained in NURS 246, focus will be on acutely ill clients. The nursing process continues to serve as a guide to provide safe, client centered care. The student collaborates with the interdisciplinary team in all aspects of client care. Student experiences the role of the staff nurse under the guidance and direction of the nursing instructor. Grade of C or better required. May be repeated up to 8 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, NURS 154, NURS 156, NURS 157, NURS 210,

NURS 211, NURS 246, and NURS 258. Corequisite(s): NURS 212, NURS 260.

# NURS 258. Psychosocial Requisites: A Deficit Approach 3 Credits (2+3P)

Nursing theory and practice as it relates to the care of the client experiencing psychosocial health deviations. The role of the nurse is discussed along with the ethical and legal aspects of care for the client with psychosocial disorders. Building upon the communication skills of listening and responding, the student develops the therapeutic skills of interpersonal relationships. Grade of C or better is required. May be repeated up to 3 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

**Prerequisite(s):** NURS 153, NURS 154, NURS 156, NURS 157, NURS 210, and NURS 246.

Corequisite(s): NURS 211, NURS 246.

# NURS 260. Management of Patients with Health Deviations 2 Credits (2)

A capstone course to the nursing program in which principles in management and delegation to less prepared personnel is explored. A review of leadership roles, legal issues, quality initiatives, informatics and scope of practice is included. Preparation for the NCLEX is an integral portion of the course. Grade of C or better is required. May be repeated up to 2 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, NURS 154, NURS 156, NURS 157, NURS 210,

NURS 211, NURS 246, and NURS 258. Corequisite(s): NURS 212, NURS 256.

### **NUTR-NUTRITION**

### NUTR 2110. Human Nutrition

3 Credits (3)

This course provides an overview of nutrients, including requirements, digestion, absorption, transport, function in the body and food sources. Dietary guidelines intended to promote long-term health are stressed.

# NUTR 2120. Seminar I - Becoming a Nutrition Professional 1 Credit (1)

This course will introduce students to the field experience, careers, and professions in nutrition. This course is required for students pursuing a Didactic Program in Dietetics verification statement. May be repeated up to 1 credits. Consent of Instructor required. Restricted to: HNDS majors.

# OATS-OFFICE ADMINISTRATION TECHNOLOGY SYSTEMS

# OATS 101. Keyboarding Basics 3 Credits (2+2P)

Covers the skills necessary to touch type on the computer keyboard using correct techniques. This includes the development of speed, accuracy, and formatting of basic business documents. May be repeated up to 3 credits. Restricted to Community Colleges campuses

# OATS 102. Keyboarding: Document Formatting 3 Credits (2+2P)

Designed to improve keyboarding speed and accuracy; introduce formats of letters, tables and reports. A speed and accuracy competency requirement must be met.

Prerequisite: OATS 101 or consent of instructor.

### OATS 105. Business English

3 Credits (3)

Training and application of the fundamentals of basic grammar, capitalization, punctuation, basic writing, sentence structure, and editing skills. May be repeated up to 3 credits. Restricted to Community Colleges campuses

#### **OATS 106. Business Mathematics**

#### 3 Credits (2+2P)

Mathematical applications for business. May be repeated up to 3 credits. Restricted to Community Colleges campuses

Prerequisite(s): CCDM 103 N or adequate score on math placement exam.

#### **OATS 110. Records Management**

#### 3 Credits (3)

Principles, methods and procedures for the selection, operation and control of manual and automated records systems.

# OATS 120. Accounting Procedures I 3 Credits (2+2P)

Business accounting principles and procedures. Use of special journals, cash control, and merchandising concepts. Reports for sole proprietorships.

### OATS 121. Accounting Procedures II

### 3 Credits (2+2P)

Continuation of OATS 120, emphasizing accounting principles and procedures for notes and interest, depreciation, partnerships and corporations, cash flow and financial statement analysis. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 120 or ACCT 2110.

### OATS 140. Payroll Accounting

#### 3 Credits (2+2P)

Payroll procedures including payroll tax forms and deposits. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ACCT 2110 or OATS 120.

#### **OATS 150. Medical Terminology**

### 3 Credits (3)

Understanding of the basic elements of medical words. Use of medical abbreviations. Same as NURS 150 and 0EHO 120. May be repeated up to 3 credits. Crosslisted with: NURS 150, AHS 120 and HIT 150. Restricted to Community Colleges campuses only.

# OATS 169. Spanish Grammar for Business Administration 3 Credits (3)

Introductory course in Spanish grammar and practical business terms required for the proper application of fundamental oral and written business communication skills for Spanish speakers in the field of business administration. Restricted to Community Colleges campuses only.

Prerequisite(s): Spanish-speaking ability and computer keyboarding ability.

# OATS 170. Office Communications in Spanish I 3 Credits (3)

Develop oral and written communications skills of native or near-native speakers of Spanish. The student will learn basic letter writing skills, customer service techniques, and telephone etiquette in Spanish. Spanish speaking ability is required to enroll in this course. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses

### OATS 171. Office Communications in Spanish II 3 Credits (3)

Develop oral and written communications skills of native or nearnative speakers of Spanish. Emphasis placed on learning the office assistant's role within the office environment. Compose complex business correspondence and learn to make international travel arrangements. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s): OATS 170, Spanish speaking ability.

# OATS 191. Taking Minutes & Proofreading 3 Credits (3)

Preparation and practice producing minutes suited for different meeting types and purposes. Provides strategies to prepare for meetings, to record proceedings, and to transcribe minutes while incorporating proofreading skills practice. Topics include legal requirements, meeting types, minute formats, and duties/expectations of the minute taker and the meeting chair. Graded: S/U. May be repeated up to 3 credits. Restricted to Community Colleges campuses

### OATS 202. Keyboarding Document Production 3 Credits (2+2P)

Further development of keyboarding speed and accuracy. Production of complex letters, memos, tables, reports and business forms. A speed and accuracy competency requirement must be met. Restricted to Community Colleges campuses

# OATS 203. Office Equipment and Procedures I 3 Credits (2+2P)

Office organization, telephone techniques, equipment and supplies, handling meetings, human relations, mail procedures, and travel. May be repeated up to 3 credits. Restricted to Community Colleges campuses

# OATS 205. Accounting Software I 3 Credits (2+2P)

Introduction to accounting software. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Working knowledge of computers and accounting or consent of instructor.

### OATS 206. Accounting Software II 3 Credits (2+2P)

Accounting software and office applications. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 121 or OATS 215.

# OATS 207. Machine Transcription 3 Credits (2+2P)

Creating office documents using transcribing equipment and word processing software. Emphasis on proofreading, editing and grammar. May be repeated up to 3 credits. Restricted to Community Colleges campuses

Prerequisite(s): BOT 105.

# OATS 208. Medical Office Procedures 3 Credits (2+2P)

Current computerized and traditional administrative medical office procedures will be introduced. Practical knowledge on managing required record keeping in a medical office environment will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s):** HIT 150 or AHS 120, and computer keyboarding ability or consent of instructor.

### OATS 209. Business and Technical Communications 3 Credits (3)

Effective written communication skills and techniques for career success in the work place. Composition of letters, memos, short reports, forms, and proposals, and technical descriptions and directions.

**Prerequisites:** ENGL 1110G and computer keyboarding ability or consent of instructor.

### OATS 211. Information Processing I

#### 3 Credits (2+2P)

Defining and applying fundamental information processing concepts and techniques using the current version of leading software. May be repeated up to 6 credits. Restricted to Community Colleges campuses

### OATS 213. Word Processing I

#### 3 Credits (2+2P)

Operation and function of a word processor. Specific equipment to be announced in the Schedule of Classes.

Prerequisite: OATS 101 or keyboarding proficiency.

### OATS 214. Word Processing II

#### 3 Credits (2+2P)

Advanced operation and functions of a word processor. Specific equipment to be announced in the Schedule of Classes.

Prerequisite: OATS 213 or consent of instructor.

### **OATS 215. Spreadsheet Applications**

#### 1-3 Credits

Use of spreadsheets to include graphics and business applications. Same as OECS 215. May be repeated under different subtitles listed in the Schedule of Classes.

### **OATS 217. Powerpoint Presentation**

#### 3 Credits (3)

Comprehensive, hands-on approach to learning and applying basic and advanced features of PowerPoint. These include text enhancements, objects, fills, colors, animation, charts, sound, video, and hyperlinks. Students demonstrate appropriate audience and communication tools to deliver presentations.

**Prerequisites:** OATS 211 or ability to demonstrate keyboarding and Windows proficiency.

### OATS 218. Information Processing II

#### 3 Credits (2+2P)

Advanced information processing techniques using current version of leading software. May be repeated for a maximum of 6 credits.

Prerequisite: OATS 211 or consent of instructor.

# OATS 220. Internship in Business Office Technology 2 Credits (2)

Experience in a supervised office position. Student must work at least eight hours per week. May be repeated for a maximum of 4 credits. **Prerequisites:** sophomore standing and consent of instructor.

### OATS 221. Internship I

#### 1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. C- or better in the course is required. Consent of Instructor required. Restricted to: BOT,HIT. majors. Restricted to Community Colleges campuses

### OATS 222. Internship II

#### 1-3 Credits

Continuation of OATS 221. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: OATS & HIT majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. **Prerequisite(s):** OATS 221 and consent of instructor.

#### OATS 223. Medical Transcription I

#### 3 Credits (2+2P)

Concepts in medical transcription are introduced on how to produce a variety of reports required in a medical office or facility utilizing accurate medical terminology, spelling, grammar, and document formatting. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 150 or AHS 120 and HIT 158 and OATS 209.

### OATS 228. Medical Insurance Billing 3 Credits (2+2P)

Comprehensive overview of the insurance concepts and applications required for successfully and accurately completing and submitting insurance claims and reimbursement processes for various insurance carriers, both private and government, will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s)**: HIT 150 or AHS 120.

# OATS 233. Advanced Medical Transcription 3 Credits (2+2P)

Builds upon the concepts introduced in Medical Transcription I providing greater understanding of how to produce advanced reports dictated by physicians with increasing speed and accuracy. Emphasis will be on proofreading and editing of operative reports, patient history and physicals, office notes, labor and delivery reports, consultation reports, discharge summaries, and other medical reports. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 223 and HIT 130.

#### **OATS 239. Personal Development**

### 3 Credits (3)

Development of a marketable, employable office systems person, to include interview, voice, manners, and apparel.

### OATS 240. Introduction to Individual Taxation 3 Credits (3)

Overview of Individual Federal Taxation; awareness of tax problems pitfalls and planning opportunities; focus on individual personal financial concerns and tax planning. One semester of accounting principles/procedures is recommended.

### OATS 241. Auditing and Business Issues 3 Credits (3)

Introduction to basic auditing concepts, the purpose for the auditing process, and requirements of persons assisting with the audit process. The course will also deal with issues of business law including contracts, sales, torts, strict liability, and business ethics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 120 or ACCT 2110.

#### OATS 244. Tax Preparation

### 3 Credits (3)

Introduces basic federal and state tax codes for preparing individual income tax returns. Emphasis on use of tax software.

Prerequisite: keyboarding proficiency.

### OATS 250. Electronic Office Systems

#### 3 Credits (2+2P)

Management of the electronic office. Office use of computers, printers, fax machines, copiers, and scanner concepts will be covered.

Prerequisite: OATS 211.

### OATS 255. Special Topics

#### 1-4 Credits

Specific subjects to be announced in the Schedule of Classes.

# OATS 260. Bookkeeping Simulation Capstone 3 Credits (2+2P)

Refines the professional and technical skills students have learned while completing the Bookkeeping Assistant Option curriculum by demonstrating how coursework ties together. Designed as a bookkeeping assistant capstone course.

**Prerequisite(s):** OATS 121 or ACCT 2110, OATS 140, OATS 205, and OATS 244, or consent of instructor.

# OATS 270. Office Administration Technology Capstone 3 Credits (2+2P)

Refines professional skills learned in the BOT program and ties all BOT coursework together. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s): OATS 102 or OATS 129; and OATS 120; and OAT S 209 or ENGL 2210G; and OATS 211 or OECS 211.

# OEBM-BIOMEDICAL TECHNOLOGY (OEBM)

# OEBM 140. Applied Human Biology for Biomedical Technology 3 Credits (3)

Essential human biology, anatomy, physiology and medical terminology for biomedical equipment technicians. Focus on the vocabulary necessary for effective communication in the hospital environment as part of the health care team. Restricted to: Community Colleges only.

# OEBM 141. Medical Electronics and Safety in Healthcare 3 Credits (3)

Introduction to the biomedical equipment technology field. Operation of common biomedical equipment to include pressure and temperature systems, infusion devices, patient monitors, and other physiologic and patient systems. Hospital safety and health regulations explained. Restricted to Community Colleges campuses only.

Prerequisite(s): OEBM 140.

### **OEBM 200. Biomedical Internship**

### 1-4 Credits (3-12P)

Practice working in industry as a biomedical electronics technologist. Students work on a variety of medical equipment and job tasks. An employer evaluation, student report, and a minimum of 100 work hours are required. May be repeated up to 8 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): OEBM 140 and OEBM 141.

### OEBM 211. CBET Exam Preparation 1 Credit (1)

An overview of the Certified Biomedical Equipment Technician exam. Topics include anatomy and physiology, electronics principles, safety issues, equipment operation, and equipment troubleshooting.

Prerequisite(s)/Corequisite(s): OEBM 241 AND OEBM 240. Restricted to Community Colleges campuses only.

#### **OEBM 240. Medical Imaging Systems**

#### 3 Credits (3)

The fundamentals of diagnostic radiography equipment will be explored. Principles of an x-ray system will be explained including the x-ray generation, image formation and film processing. Focus will be on both safety and quality. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEBM 140.

#### **OEBM 241. Advanced Medical Electronics**

#### 3 Credits (3+1P)

Advanced study in biomedical equipment to include cardiovascular, pulmonary, telemetry and other critical life support systems. Restricted to Community Colleges campuses only.

Prerequisite(s): OEBM 141.

# OECS-COMPUTER TECHNOLOGY (OECS)

### **OECS 101. Computer Basics**

#### 1 Credit (1)

Hands-on instruction to introduce computer use and commonly used software. Graded S/U.

# OECS 105. Introduction to Information Technology 3 Credits (3)

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communication, data analysis, information management and decision-making. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### **OECS 110. Introduction to Power Point**

#### 1-3 Credits (1-3)

An introduction to Power Point software to develop business presentations. Includes concepts of basic presentation methods and graphic design principles. Students will create and deliver presentations using text, charts, digitized images, and sound. Restricted to Community Colleges campuses only.

### **OECS 125. Operating Systems**

#### 1-3 Credits

Installation, configuration and optimization of current operating systems. Restricted to: Community Colleges only.

### OECS 128. Operating Systems Linux/Unix 3 Credits (3)

Installation, configuration, and use of Linux/Unix operating system software and utilities including hardware management, file management, use of command line, and scripting. Restricted to: Community Colleges only.

# OECS 140. Introduction to Game Production Industry 1-3 Credits (1-3)

Students explore the business behind game production, understanding how game companies are organized and funded, positions within the game industry, and what skills game producers need. Restricted to Community Colleges campuses only.

### OECS 141. Introduction to Interactive Game Programming 1-3 Credits (1-3)

This introductory programming class reviews the basics of programming, including the object-oriented approach. Students will de-construct existing games, develop their own code, and gain an appreciation for coding strategies. May be repeated for a maximum of 6 credits. Restricted to Community Colleges campuses only.

### **OECS 145. Mobile Application Development**

### 1-3 Credits (1-3)

Introduction to elements of mobile application coding including concepts, design strategies, tools needed to create, test and deploy applications for mobile devices. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

### OECS 155. Special Topics - Introductory Computer Technology 0.5-4 Credits (.5-4)

Topics to be announced in the Schedule of Classes. May be repeated up to 8 credits.

#### OECS 185. PC Maintenance and Repair I

#### 1-3 Credits

Introduction to most common types of PC configurations, installations, and failures. This course will explore troubleshooting skills for maintaining and repairing common hardware and software related problems. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### OECS 192. C++ Programming I

#### 3 Credits (3)

Development of skills in programming using the C++ programming language. Restricted to: Community Colleges only.

#### **OECS 195. Java Programming I**

#### 1-3 Credits

Developing of skills in programming using the Java programming language. Restricted to: Community Colleges only.

### OECS 200. Accounting on Microcomputers

#### 3 Credits (3)

Fundamental accounting principles using popular microcomputer soft ware to include G/L, A/R, A/P, purchase order, billing, inventory, and forecasting modules.

Prerequisite: ACCT 2110 or OATS 121.

### **OECS 204. Linux Operating System**

#### 1-3 Credits

Install and configure the Linux operating system on X86 systems. Covers issues involved in maintaining operating system, networking, creating and managing users, and installing and updating software. General procedures for working with operating system includes maintaining disk space, preserving system security, and other related topics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### OECS 205. Advanced Operating Systems: Administration 3 Credits (3)

Examines operating systems designed for PC, minicomputers and mainframes. Covers maintaining operating systems, creating and managing users, and installing and updating software. General procedures for working with operating systems will include maintaining disk space, preserving system security, providing mail services, among other topics. May be repeated for a maximum of 6 credits.

# Prerequisite: OECS 128. OECS 207. Windows

### 0.5-3 Credits

Covers local installation, configuration of core local services, managing users, and the general local management and maintenance of Windows workstations. May be repeated up to 6 credits.

Prerequisite(s)/Corequisite(s): OECS 185. Restricted to Community Colleges campuses only.

### **OECS 208. Internet Applications**

#### 1-3 Credits

Survey of the Internet to include e-mail, file transfer, current search techniques, the World Wide Web and basic Web page development. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

#### **OECS 209. Computer Graphic Arts**

#### 1-3 Credits

Basic graphics composition using computer programs to include editing and manipulating graphic images, clip-art, and printing of pictures. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes.

Prerequisite: OECS 105, BCIS 1110, or OECS 101.

#### **OECS 211. Word Processing Applications**

#### 1-3 Credits

Basic word processing to include composing, editing, formatting, and printing of documents. May be repeated under different subtitles listed in the Schedule of Classes for a maximum of 6 credits.

Prerequisites: BCIS 1110 or OECS 105.

### **OECS 215. Spreadsheet Applications**

#### 1-3 Credits

Use of spreadsheets to include graphics and business applications. May be repeated for a maximum of 6 credits.

Prerequisites: BCIS 1110 or OECS 105.

### OECS 216. Programming for the Web

#### 3 Credits (3)

Designing web-based applications using appropriate programming language(s) such as, but not limited to HTML, PHP, MySQL, SQL, Java, Perl, C or C++. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): One semester of any programming course.

### OECS 220. Database Application and Design

#### 1-3 Credits

Creating, sorting, and searching of single and multifile databases to include report generation and programming database commands. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes. Restricted to: Community Colleges only.

Prerequisite(s): BCIS 1110 OR ET 120 OR ET 122 OR OECS 105.

### OECS 221. Internship I

#### 1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

### OECS 222. Internship II

#### 1-3 Credits

Continuation of OECS 221. Each credit requires specified number of hours of on-the-job work experience. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 221 and consent of instructor.

### **OECS 227. Computer Applications for Technicians**

#### 3 Credits (3)

Computer applications for service technicians in various disciplines. Hardware and software applications explored. Includes operating systems, high level programming, and networking hardware and software.

#### **OECS 230. Data Communications and Networks I**

#### 1-3 Credits

Definition of data communication; survey of hardware applications and teleprocessor software; examination and design of networks. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 185.

### **OECS 231. Data Communications and Networks II**

#### 1-3 Credits

Installation and application of popular microcomputer network software. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 230.

#### **OECS 234. Linux Server**

#### 3-4 Credits (3-4)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Linux Server(s). It provides in-depth, hands-on training for planning, implementation, management and support of Linux networking services. May be repeated up to 8 credits.

**Prerequisite(s)/Corequisite(s):** OECS 204. Restricted to: OECS majors. Restricted to Community Colleges campuses only.

### OECS 235. Structured Query Language (SQL)

#### 1-3 Credits

Installation, configuration, administration, and troubleshooting of SQL client/server database management system. May be repeated up to 3 credits

Prerequisite(s)/Corequisite(s): OECS 220. Restricted to Community Colleges campuses only.

#### **OECS 237. Windows Server**

#### 3-4 Credits (3-4)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Microsoft Windows Server Active Directory Domain Services in medium to large businesses. It provides in-depth, hands-on training for Information Technology (IT) professionals responsible for the planning, implementation, management, and support of Windows Active Directory services. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OECS 207. Restricted to Community Colleges campuses only.

### OECS 245. Game Programming I

#### 3 Credits (3)

Development of programming skills for games and animation using current programming languages and tools. May be repeated for a maximum of 6 credits.

Prerequisite: consent of instructor.

#### **OECS 246. Game Programming II**

### 3 Credits (3)

Continuation of OECS 245. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 245.

### OECS 250. Systems Analysis and Design I

#### 3 Credits (3)

Analysis, configuration, design and testing of organizations' work flow as it relates to hardware, software, data, procedures and personnel. Systems Life Cycle approach matching end users' needs to feasible financial, technical and operational solutions. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 220.

#### **OECS 255. Special Topics**

#### 1-4 Credits

Topics to be announced in the Schedule of Classes.

#### OECS 260. Hypertext Markup Language (HTML)

#### 1-3 Credits

Coverage of HTML as used for web-page development for Internet and Intranet. Text manipulation, graphics, hypertext links, lists, and tables. May be repeated for a maximum or 3 credits.

Prerequisite: BCIS 1110 or OECS 105.

#### **OECS 261. Introduction to Networks**

#### 3-4 Credits (3-4)

Introduction to networking principles including the practical and conceptual skills for understanding basic networking, planning and designing networks, implementing IP addressing schemes, examining the OSI and TCP/IP layers, and performing basic configurations for routers and switches. Aligns to the first course of the Cisco Networking Academy CCNA curriculum. Restricted to Community Colleges campuses only.

### OECS 262. Essentials of Routing and Switching

### 3-4 Credits (3-4)

Examination of the architecture, components, and operations of routers and switches in a small network. Student will learn how to configure, verify and troubleshoot: routers and switches, static routing, default routing, VLANs, and ACLs. Aligns to the second course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits. **Prerequisite(s)/Corequisite(s):** OECS 261. Restricted to Community Colleges campuses only.

#### **OECS 263. Network Fundamentals**

#### 3-4 Credits (3-4)

Fundamentals of networking architecture, components, and operations including practical and conceptual skills using routers and switches. Student will learn how to configure, verify and troubleshoot static routing, default routing, VLANs, and ACLs. This course aligns to the third course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits.

**Prerequisite(s)/Corequisite(s):** OECS 262. Restricted to Community Colleges campuses only.

#### **OECS 264. Network Routing Protocols**

### 3-4 Credits (3-4)

Fundamentals of routing protocols for troubleshooting advanced network operations. Covers common networking issues such as RIP, OSPF, and EIGRP for IPv4 and IPv6 networks. This course aligns to the fourth course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OECS 263. Restricted to Community Colleges campuses only.

#### **OECS 269. Network Security**

### 3-4 Credits (3-4)

Fundamentals of design and implementation of network security solutions that will reduce the risk of system vulnerability. May be repeated up to 8 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 204 or OECS 207 or OECS 261 or consent of instructor.

#### OECS 275. PC Maintenance and Repair II

#### 1-3 Credits

Continuation of OECS 185. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 185.

#### OECS 280. Desktop Publishing I

### 3 Credits (3)

Design and production of publication materials to fill the needs of business communities, using a microcomputer. May be repeated for a maximum of 6 credits. Same as OATS 280.

Prerequisites: either BCIS 1110, OECS 105.

### OECS 290. Computer Technology Capstone

#### 1-3 Credits

Refines skills learned in the OECS program. Culminates in a review and practice of advanced software applications. May be repeated up to 3 credits. Restricted to: OECS & OECT majors. Restricted to Community Colleges campuses only.

**Prerequisite(s):** (OECS 125, OECS 128, OECS 207, OR OECS 203) AND (OECS 185 OR E T 283).

### **OECS 299. Independent Study**

### 1-3 Credits

Specific subjects to be determined based on need. Restricted to: Community Colleges only.

### **OEEM- PARAMEDIC (OEEM)**

### OEEM 101. CPR for the Health Care Professional

#### 1 Credit (1)

Students learn identification and response to airway and circulation emergencies, including use of a SAED and accessing the EMS system. This course is taught using the American Heart Association guidelines for course completion. Required: grade of C or better.

#### **OEEM 103. Heartsaver First Aid/CPR**

### 1 Credit (1)

Students learn how to identify and respond to airway, circulation and basic first aid emergencies, to include using a SAED and accessing the EMS system. This course is intended for students who are not Allied Health Majors and utilizes the American Heart Association guidelines for course completion. Restricted to: Community Colleges only.

### OEEM 106. Advanced First Aid

#### 2 Credits (2)

Theory and advanced first aid skills taught emphasizing recognition and providing care for injury or sudden illness until professional medical help arrives. Course meets and/or exceeds the Red Cross or National Safety Council standards. Corequisite(s): OEEM 101

# OEEM 115. First Responder Prehospital Professional 3 Credits (2+3P)

Provides training in prehospital medical and traumatic emergencies. Consent of instructor required. Requires a C or better to pass. Restricted to majors.

Corequisite(s): OEEM 101.

# OEEM 120. Emergency Medical Technician Basic 6 Credits (6)

EMT-Basic skills to include care of soft tissue and muscular/skeletal injuries, circulatory, nervous, general medical and respiratory emergencies. Requires a 'C' or better to pass. May be repeated up to 6 credits. Consent of Instructor required.

Corequisite(s): OEEM 101, OEEM 120L, OEEM 121.

**Prerequisite(s)/Corequisite(s):** OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

### OEEM 120 L. Emergency Medical Technician Basic Lab 2 Credits (6P)

EMT-Basic skills development with emphasis on assessment, skills competency and team-work in patient care in the prehospital setting. May be repeated up to 2 credits.

Corequisite(s): OEEM 101, OEEM 120, OEEM 121.

**Prerequisite(s)/Corequisite(s):** OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

### OEEM 121. Emergency Medical Technician Basic Field/Clinical 1 Credit (3P)

Covers the patient care experience provided through assigned shifts in the hospital and/or ambulance setting. Requires a 'C' or better to pass. May be repeated up to 1 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): OEEM 101, OEEM 120, OEEM 120L

OEEM 153. Restricted to: OEEM majors. Restricted to Community

Colleges campuses only.

### OEEM 122. Emergency Medical Technician Basic Advanced Field/ Internship

### 2 Credits (6P)

Expanded patient care experience provided through assigned shifts in the hospital and/or ambulance setting. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Current EMT-basic license and consent of instructor.

# OEEM 150. Emergency Medical Technician Intermediate 5 Credits (5)

Theory of the roles, responsibilities and scope of practice of the EMT-Intermediate. Assessment and management of respiratory, cardiac, trauma, environmental, behavior, reproduction, and childhood emergencies. May be repeated up to 5 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Current EMT-basic license, pretest and consent of instructor.

### OEEM 150 L. Emergency Medical Technician Intermediate Lab 2 Credits (6P)

EMT-Intermediate skills development with an emphasis on assessment, skills competency, and team work in patient care in the prehospital setting. Requires a C or better to pass.

**Prerequisite(s)/Corequisite(s):** OEEM 150,0EEM 151. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

### OEEM 151. Emergency Medical Technician Intermediate Field/Clinical 2 Credits (6P)

Patient care experience provided through assigned shifts in the hospital and/or ambulance setting.

Prerequisite(s)/Corequisite(s): OEEM 150, OEEM 150 L. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

### OEEM 153. Introduction to Anatomy and Physiology for the EMS Provider 3 Credits (3)

To properly assess and manage a patient, a prehospital provider must have a solid foundation in human anatomy and physiology. This course provides a systematic approach to building this foundation. Grade of 'C' or better is required to pass the course. Consent of Instructor required. Restricted to Community Colleges campuses only.

### **OEEM 155. Special Topics**

#### 1-6 Credits

Specific topics to be listed in Schedule of Classes. May be repeated for a maximum of 10 credits.

## OEEM 158. Emergency Medical Technician-Combination Refresher 2 Credits (2)

A comprehensive review of prehospital medicine for the prehospital care provider from the first responder level through the EMT Intermediate. New material relevant to recertification of the New Mexico First Responder, EMT Basic and EMT Intermediate licensure included. Graded S/U.

# OEEM 177. Emergency Medical Services Instructor 4 Credits (4)

Theory of student learning, methodology, instructional components, evaluation, and course coordination for the EMS profession. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): Minimum of an EMT-Basic License required.

# OEEM 201. Human Pathophysiology 3 Credits (2+3P)

Overview of anatomy and physiology. Emphasis on human body pathophysiology including a medical illness component. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 120, OEEM 120 L.

### OEEM 202. EMT-Paramedic Respiratory Emergencies 3 Credits (2+3P)

Review anatomy, physiology and pathophysiology of the respiratory system. Assessment and management of respiratory emergencies and acute respiratory failure in the prehospital setting. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 212.

### OEEM 203. EMT-Paramedic Trauma Emergencies 3 Credits (2+3P)

Study of the effects of trauma on the human body. Assessment and management of trauma patients and scenes, including vehicular extrication. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 216.

# OEEM 206. Introduction to Advanced Prehospital Care 3 Credits (2+3P)

Overview of prehospital care including roles and responsibilities of EMT-P, EMS systems, medical, legal, ethical issues, stress management, medical terminology, medical report writing and communication. Includes ridealong with ambulance and dispatch observation. Requires a C or better to pass. Restricted to majors. Consent of instructor required. Restricted to: Community Colleges only. Restricted to OEEM majors.

Prerequisite(s): OEEM 120.

### OEEM 207. Introduction to Pharmacology 3 Credits (2+3P)

Drug actions, factors modifying drugs and dosages: characteristics of drug effects, and drug history and dosages. Prehospital protocol, transport, and common patient prescription medications. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only. Restricted to OEEM majors.

Prerequisite(s): OEEM 120.

### OEEM 210. Cardiac Rhythm Interpretation 3 Credits (2+3P)

Cardiac conduction system: electrophysiology, electrocardiogram, monitor, atrial, sinus, ventricular and junctional dysrhythmias, multiple lead EKG and 12 lead EKG interpretation. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 201, OEEM 206, OEEM 207.

### OEEM 212. EMT-Paramedic Cardiovascular Emergencies 3 Credits (2+3P)

Review anatomy, physiology, and pathophysiology of cardiovascular system. Assessment and management of cardiovascular emergencies in the prehospital setting. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 210.

# OEEM 213. EMT-Paramedic: Medical Emergencies I 3 Credits (2+3P)

Study of the disease process; assessment and management of neurological, endocrine, gastrointestinal, renal emergencies and infectious disease. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 212.

# OEEM 214. EMT--Paramedic: Medical Environmental Emergencies II 3 Credits (2+3P)

Study of disease process, assessment, and management of poisoning, drug and alcohol abuse, environmental, behavioral and geriatric emergencies. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 213.

# OEEM 216. EMT-Paramedic: Reproductive and Childhood Emergencies 3 Credits (2+3P)

Covers anatomy, physiology, disease processes, assessment and management of male and female reproductive system emergencies, childhood emergencies and growth and development. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only.

Prerequisite(s): OEEM 214 and consent of instructor.

### OEEM 218. Pediatric Advance Life Support for the Healthcare Professional

#### 1 Credit (1)

Identify and respond to life threatening pediatric emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEM 101.

# OEEM 219. Advance Cardiac Life Support for the Healthcare Provider 1 Credit (1)

Identify and respond to life threatening cardiac emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEM 101.

# OEEM 230. EMT-Paramedic Clinical Experience I 3 Credits (9P)

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

### OEEM 231. EMT-Paramedic Clinical Experience II 3 Credits (9P)

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required.

**Prerequisite(s)/Corequisite(s):** OEEM 230. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

# OEEM 240. EMT-Paramedic Field Experience I 3 Credits (9P)

Advanced prehospital skills and knowledge. Successful completion of at least the minimum required hours and course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

### OEEM 241. EMT-Paramedic Field Experience II 3 Credits (9P)

Continued focus on advanced prehospital skills and knowledge, with increasing responsibility for patient care. Successful completion includes meeting at least the minimum required hours and course objectives.

Prerequisite(s)/Corequisite(s): OEEM 240. Requires a C- or better to pass.

### OEEM 242. EMT-Paramedic Field Internship 3 Credits (9P)

Emphasis on total patient care responsibility and team leadership skills. Successful completion includes meeting the minimum hours required and course objectives. Pre/ Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only. **Prerequisite(s)**: OEEM 231, OEEM 241.

### OEEM 243. EMT-Paramedic Preparation for Practice 2 Credits (2)

Comprehensive final program testing to prepare for licensing examination. Requires a 'C' or better to pass. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEEM 242.

# OEEM 247. Emergency Medical Technician - Paramedic Refresher 2 Credits (1+3P)

A comprehensive review of prehospital emergency medicine for the EMT Paramedic. New material relevant to recertification of the New Mexico and Nationally Registered Paramedic licensure. Graded S/U.

# OEEM 253. Critical Care Emergency Medical Transport Program 6 Credits (5+6P)

This course will provide further education to Paramedics, Registered Nurses and Registered Respiratory Therapists who wish to function as part of a critical care transport team. Consent of instructor required. Restricted to: Community Colleges only.

**Prerequisite(s):** Licensed Paramedic, Registered Nurse or Registered Respiratory Therapist with one or more years experience.

### **OEET- ELECTRICAL TRADES (OEET)**

### **OEET 110. Basic Electricity and Electronics**

### 4 Credits (3+3P)

An introduction to electricity theory and practice, including electron theory, Ohm s law, construction of electrical circuits, direct and alternating currents, magnetism, transformers, and practical applications. Same as HVAC 102, ELT 105, OEPB 102.

#### **OEET 120. Basic Motor Controls**

#### 5 Credits (2+6P)

Developing schematics and wiring simple manual and electromechanical control devices.

Prerequisite: OEET 110 or consent of instructor.

### **OEET 151. Electrical Apprenticeship I**

#### 6 Credits (6)

Apprenticeship responsibilities and benefits as well as first aid and CPR will be covered. Hand tools, electrical theory, and the regulations imposed by national codes and OSHA. Students will apply theory taught in their jobs.

Prerequisite: consent of instructor.

### **OEET 152. Electrical Apprenticeship II**

#### 6 Credits (6)

OHM s law circuit sizing and service panel sizing will be covered in detail. Other topics include low voltage systems, heating and air conditioning circuits, alarm systems and smoke detectors.

Prerequisites: OEET 151 and consent of instructor.

### **OEET 153. Electrical Apprenticeship III**

### 6 Credits (6)

Various electrical measuring devices will be covered in detail. Inductance, transformers, capacitance, and simple motors will be studied.

Prerequisites: OEET 152 and consent of instructor.

### OEET 154. Electrical Apprenticeship IV

### 6 Credits (6)

Theory and application of three-phase transformers and autotransformers. Electrical distribution using switchboards, panelboards, and circuit breakers.

Prerequisites: OEET 153 and consent of instructor.

### **OEET 205. National Electric Code**

### 3 Credits (3)

Interpretation and application of the National Electric Code.

Prerequisite: OEET 110.

### **OEET 210. Intermediate Electricity**

### 5 Credits (3+4P)

Introduction to inductance, capacitance, reactances, and power factor correction.

Prerequisite: OEET 110.

### **OEET 251. Electrical Apprenticeship V**

#### 6 Credits (6)

Commercial/industrial applications for electricians. Blueprint interpretation, commercial construction types and processes, wiring methods, wiring materials, and motor controls.

Prerequisites: OEET 154 and consent of instructor.

### **OEET 252. Electrical Apprenticeship VI**

#### 6 Credits (6)

In-depth commercial applications to include commercial/industrial service calculations, mobile home parks, multi-family dwellings, and commercial fire/security systems.

Prerequisites: OEET 251 and consent of instructor.

#### **OEET 253. Electrical Apprenticeship VII**

#### 6 Credits (6)

Control devices in commercial/industrial applications; emphasis on logic in-line diagrams, time delay starters, reversing starters, and manual/magnetic solenoids.

Prerequisites: OEET 252 and consent of instructor.

### **OEET 254. Electrical Apprenticeship VIII**

#### 6 Credits (6)

Miscellaneous topics for the journeyperson electrician to include power distribution/transmission, solid state controls and relays, photoelectric and proximity controls and programmable controllers.

Prerequisites: OEET 253 and consent of instructor.

### **OEET 295. Special Topics**

#### 1-6 Credits

Topics to be announced in the Schedule of Classes.

# OEGR-DIGITAL GRAPHIC TECH (OEGR)

### **OEGR 221. Cooperative Experience I**

Prerequisite: consent of instructor.

### 1-3 Credits

Student employed in approved work site; supervised and rated by employer and instructor. Each credit requires specified number of hours of on-the-job work experience. Restricted to majors. Graded S/U.

# OEGS-GEOGRAPHIC INFO SYS (OEGS)

## OEGS 181. Introduction to Principles of Geographic Information Systems 4 Credits (3+3P)

This course will introduce students to fundamental software capabilities of geographic information systems (GIS), along with the underlying conceptual framework. Topics include origins, development, and methods of cartography, components of a GIS, the nature and characteristics of spatial data, methods of data capture and sources of data, review of typical GIS operations and applications. Producing useful, aesthetically pleasing maps will be an intergral part of the course. ArcGIS software will be used for this course. May be repeated up to 4 credits.

## OEGS 187. GIS Data Acquisition and Management 4 Credits (3+3P)

An introduction to defining data needs and evaluating whether a given dataset matches those needs. Students will explore some common geographic data formats used in ArcGIS and learn about sources of data and maps that can be incorporated into a GIS project. The student will learn the advanced functionality and versatility of using geodatabases. The student will demonstrate how to design and build a geodatabase, migrate exisiting data to a geodatabase and edit data stored in a geodatabase. Methods for georeferencing scanned maps, aerial photos and computer aided drafting files will be explored and discussed. May be repeated up to 4 credits.

Prerequisite(s): OEGS 181.

## OEGS 291. Special Topics in Geographic Information Systems 1-3 Credits (1-3)

Topics to be announced in the Schedule of Classes. May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

### **OETS-TECHNICAL STUDIES (OETS)**

### **OETS 100. Industrial/Construction Safety**

#### 2 Credits (2)

Covers safety issues such as PPE, BBP, ladder safety, RTK, HazCom, MSDS and information about safety organizations such as OSHA, NIOSH, NFPA, National Safety Council. Community Colleges only. Restricted to Dona Ana and Carlsbad campuses.

# OETS 102. Career Readiness Certification Preparation 1 Credit (1)

This course is designed to prepare students to successfully obtain Career Readiness Certifications in all areas and at the appropriate levels for their program of study. Graded: S/U Grading (S/U, Audit). May be repeated up to 3 credits. S/U Grading (S/U, Audit).

### OETS 103. Technical Career Skills

### 4 Credits (4)

This course will be project-based and will encompass writing, presentation, math, reading, and critical thinking skills applied in a technical environment. Restricted to: Community Colleges only.

### OETS 104. Basic Mathematics for Technicians 4 Credits (4)

Fundamental mathematical concepts and computations including measurement, ratio and proportions, and pre-algebra as it relates to technical programs.

Prerequisite: appropriate placement test score.

### **OETS 117. Writing for Technicians**

### 3 Credits (3)

Instruction in the skills for developing clear, written descriptions of processes and procedures used by technicians in various fields. Emphasis on correct grammar, logical organization, and receiving audience. Focuses on clarity, structure, and concise writing methods. Does not substitute for ENGL 111G. Restricted to: Community Colleges only.

### OETS 118. Mathematics for Technicians

#### 3 Credits (2+2P)

Analysis and problem solving of technical problems using measuring instruments and techniques of arithmetic, algebra, geometry, and trigonometry. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Grade of 'C-' or better in OETS 104 or CCDM 103 N, or appropriate placement test score.

#### **OETS 120. Business Fundamentals**

#### 3 Credits (3)

Instruction in the skills for basic business concepts used by technicians in various fields. Emphasis placed on basic business concepts; business ownership including marketing, management, accounting, and customer services; interpersonal communication; and basic computer concepts including word processing, spreadsheets, and presentation software. Restricted to Community Colleges campuses only.

#### **OETS 255. Special Topics Technical Studies**

#### 1-6 Credits

Topics to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

Prerequisite(s): Consent of instructor.

### PHED-PHYSICAL EDUCATION

#### PHED 1110. Dance:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1230. Individual Sport:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1290. Team Sport:

### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1310. Swim I:

### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1320. Aqua Fit:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1410. Yoga:

### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1430. Pilates:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1510. Training:

### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1620. Fitness:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1630. Career Fitness:

### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation.

### PHED 1670. Aerobics:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

#### PHED 1710. Martial Arts:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1830. Running:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation.

### PHED 1910. Outdoor Experience

### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 2996. Special Topics

### 1-3 Credits

Specific subjects to be announced in the Schedule of Classes. Each offering will carry appropriate subtitle. May be repeated for a maximum of 6 credits

### PHIL-PHILOSOPHY (PHIL)

### PHIL 1115G. Introduction to Philosophy

### 3 Credits (3)

In this course, students will be introduced to some of the key questions of philosophy through the study of classical and contemporary thinkers. Some of the questions students might consider are: Do we have free will? What is knowledge? What is the mind? What are our moral obligations to others? Students will engage with and learn to critically assess various philosophical approaches to such questions.

### PHIL 1120G. Logic, Reasoning, & Critical Thinking 3 Credits (3)

The purpose of this course is to teach students how to analyze, critique, and construct arguments. The course includes an introductory survey of important logical concepts and tools needed for argument analysis. These concepts and tools will be use to examine select philosophical and scholarly texts.

### PHIL 1140G. Quest for God

### 3 Credits (3)

An effort to understand the religious life; a consideration of some of the traditional approaches to God and what it means to be religious.

### PHIL 1145G. Philosophy, Law, and Ethics

#### 3 Credits (3)

An introduction to practical problems in moral, social, political, and legal philosophy. Topics to be discussed may include ecology, animal rights, pornography, hate speech on campus, same-sex marriage, justice, abortion, terrorism, treatment of illegal immigrants, and New Mexican Aboriginal Peoples' land claims.

### PHIL 1155G. Philosophy of Music

#### 3 Credits (3)

This is an introductory course in the philosophy of music. This course will survey three questions: What is music? Why is music important? How can we distinguish good music from bad music? We will draw examples from a wide variety of musical genres, from classical music, jazz and blues to punk and rap. Students will be encouraged to apply philosophical theorizing to think about their preferred musical form.

#### PHIL 2110G. Introduction to Ethics

### 3 Credits (3)

This course introduces students to the philosophical study of morality and will explore questions concerning our human obligations to others and related issues. Students may be asked to relate various approaches to ethics to present-day ethical debates and their own lives.

### PHIL 2230G. Philosophical Thought

#### 3 Credits (3)

In this course, students will grapple with some of the key questions of philosophy through the study of classical and contemporary thinkers. Students will become familiar with the perennial problems in subfields of philosophy such as metaphysics, epistemology, ethics, and aesthetics. They will learn to approach these problems both critically and sympathetically.

# PHLS-PUBLIC HEALTH SCIENCES (PHLS)

### PHLS 1110G. Personal Health & Wellness

### 3 Credits (3)

A holistic and multi-disciplinary approach towards promoting positive lifestyles. Special emphasis is placed on major problems that have greatest significance to personal and community health. Topics to include nutrition, stress management, fitness, aging, sexuality, drug education, and others.

### PHLS 1111. Introduction to Health Science 1 Credit (1)

An overview of professional career opportunities in the realm of health science as well as the functional roles of practice, education, administration, and research. Some field trips will be required.

### PHLS 2110. Foundations of Health Education

#### 3 Credits (3)

Role and responsibility of the health educator with emphasis on small group dynamics, oral and written communication skills, building community coalitions and introduction to grant writing. Taught with PHLS 375. Cannot receive credit for both PHLS 2110 and PHLS 375. May be repeated up to 3 credits.

Prerequisite(s): PHLS 1110G, or consent of instructor.

### PHLS 2120. Essentials of Public Health

### 3 Credits (3)

The course will focus on principles and major areas if public health, including ecological and total personal concept of health care system, epidemiological approaches to disease prevention and control . Consent of Instructor required.

# **PHYS-PHYSICS (PHYS)**

### **PHYS 1111. Introductory Computational Physics**

### 3 Credits (2+2P)

Introduction to computational techniques for the solution of physics-related problems.

**Prerequisite(s):** a C- or better in MATH 1220G or MATH 1250G or MATH 1511G.

# PHYS 1112. Introductory Physics for the Health Sciences 3 Credits (3)

Algebra-level introduction to topics required for the Health Sciences including basic mechanics (including sound, mechanical waves and fluids), heat and thermodynamics, electricity and magnetism, optics and electromagnetic waves, atomic and nuclear physics and applications to medical imaging. Restricted to Community Colleges campuses only. **Prerequisite(s):** MATH 1215 or Equivalent.

### PHYS 1115G. Survey of Physics with Lab 4 Credits (3+3P)

Overview of the concepts and basic phenomena of physics. This course provides a largely descriptive and qualitative treatment with a minimum use of elementary mathematics to solve problems. No previous knowledge of physics is assumed. Includes laboratory.

### PHYS 1125G. Physics of Music

4 Credits (3+2P)

Introduction for non-science majors to basic concepts, laws, and skills in physics, in the context of a study of sound, acoustics, and music.

### PHYS 1230G. Algebra-Based Physics I

3 Credits (3)

An algebra-based treatment of Newtonian mechanics. Topics include kinematics and dynamics in one and two dimensions, conservation of energy and momentum, rotational motion, equilibrium, and fluids.

### PHYS 1230L. Algebra-Based Physics I Lab 1 Credit (1)

A series of laboratory experiments associated with the material presented in PHYS 1230G.

Prerequisite(s)/Corequisite(s): PHYS 1230G.

### PHYS 1240G. Algebra-Based Physics II

3 Credits (3)

The second half of a two semester algebra-based introduction to Physics. This course covers electricity, magnetism and optics.

Prerequisite(s): a C- or better in PHYS 1230G or PHYS 2230G.

### PHYS 1240L. Algebra-Based Physics II Lab

1 Credit (1)

A series of laboratory experiments associated with the material presented in PHYS 1240

Prerequisite(s)/Corequisite(s): PHYS 1240G.

### PHYS 1241. Problems in Algebra-Based Physics II

1 Credit (1)

This is a supplemental course for Algebra-based Physics II.

Corequisite(s): PHYS 1240G.

### PHYS 1310G. Calculus -Based Physics I

3 Credits (3)

A calculus level treatment of classical mechanics and waves, which is concerned with the physical motion concepts, forces, energy concepts, momentum, rotational motion, angular momentum, gravity, and static equilibrium. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in MATH 1511G or higher.

### PHYS 1310L. Calculus -Based Physics I Lab

1 Credit (3P)

A series of laboratory experiments associated with the material presented in Calculus-based Physics I. Students will apply the principles and concepts highlighting the main objectives covered in coursework for Calculus-based Physics I.

Prerequisite(s)/Corequisite(s): PHYS 1310G.

### PHYS 1311. Problems in Calculus-Based Physics I

0.5-1 Credits (.5-1)

This is a supplemental course for Calculus-based Physics I. May be repeated up to 1 credits.

Corequisite(s): PHYS 1310G.

### PHYS 1320G. Calculus -Based Physics II

3 Credits (3)

A calculus level treatment of classical electricity and magnetism. It is strongly recommended that this course is taken at the same time as Calculus-based Physics II laboratory. May be repeated up to 3 credits.

**Prerequisite(s):** a C- or better in PHYS 2110 or PHYS 1310G and MATH 1521G or higher.

### PHYS 1320L. Calculus -Based Physics II Lab

### 1 Credit (3P)

A series of Laboratory experiments associated with the material presented in Calculus-Based Physics II. Students will apply the principles and concepts highlighting the main objectives covered in coursework for Calculus-Based Physics II.

Prerequisite(s)/Corequisite(s): PHYS 1320G. Prerequisite(s): A C- or better in PHYS 2110L or PHYS 1310L.

### PHYS 1321. Problems in Calculus-Based Physics II

0.5-1 Credits (.5-1)

This is a supplemental course for Calculus-based Physics II.

Corequisite(s): PHYS 1320G.

### PHYS 2110. Mechanics

3 Credits (3)

Newtonian mechanics.

Prerequisite(s)/Corequisite(s): MATH 1511G or higher.

### PHYS 2110L. Experimental Mechanics

1 Credit (3P)

Laboratory experiments associated with the material presented in PHYS 2110. Science majors.

Prerequisite(s)/Corequisite(s): PHYS 2110.

### PHYS 2111. Supplemental Instruction to PHYS 2110

0.5-1 Credits (.5-1)

This Optional workshop as a supplement to PHYS 2110. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 2110.

### PHYS 2120. Heat, Light, and Sound

3 Credits (3)

Calculus-level treatment of thermodynamics, geometrical and physical optics, and sound. May be repeated up to 3 credits.

**Prerequisite(s):** a C- or better in PHYS 2110 or PHYS 1310G, and MATH 1511G or higher.

### PHYS 2120L. Heat, Light, and Sound Laboratory

1 Credit (3P)

Laboratory experiments associated with the material presented in PHYS 2120. Science majors.

**Prerequisite(s)/Corequisite(s):** PHYS 2120. Prerequisite(s): a C- or better in PHYS 2110L or PHYS 1310L.

### PHYS 2121. Supplemental Instruction to PHYS 2120

0.5-1 Credits (.5-1)

This optional workshop supplements PHYS 2120 'Heat, Light, and Sound'. Students actively apply concepts and methods introduced in PHYS 2120 to problem solving and quantitative analysis. May be repeated up to 1 credits.

Corequisite(s): PHYS 2120.

### PHYS 2140. Electricity and Magnetism

#### 3 Credits (3)

Charges and matter, the electric field, Gauss law, the electric potential, the magnetic field, Ampere's law, Faraday's law, electric circuits, alternating currents, Maxwell's equations, and electromagnetic waves. May be repeated up to 3 credits.

**Prerequisite(s):** MATH 1521G. Prerequisite(s): a C- or better in PHYS 2110 or PHYS 1310G, and MATH 1511G or higher.

### PHYS 2140L. Electricity & Magnetism Laboratory 1 Credit (3P)

Laboratory experiments associated with the material presented in PHYS 2140.

Prerequisite(s)/Corequisite(s): PHYS 2140. Prerequisite(s): a C- or better in PHYS 2110 or PHYS 1310G.

## PHYS 2141. Supplemental Instruction to PHYS 2140 0.5-1 Credits (.5-1)

Optional workshop as a supplement to PHYS 2140. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 2140.

### PHYS 2230G. General Physics for Life Science I

### 3 Credits (3)

This algebra-based introduction to general physics covers mechanics, waves, sound, and heat. Special emphasis is given to applications in the life sciences. This course is recommended for students in the life sciences and those preparing for the physics part of the MCAT. May be repeated up to 3 credits.

Prerequisite(s): A C or better in MATH 1215 or higher.

# PHYS 2230L. Laboratory to General Physics for Life Science I 1 Credit (1)

Laboratory experiments in topics associated with material presented in PHYS 2230G.

**Prerequisite(s)/Corequisite(s):** PHYS 2230G. Restricted to Las Cruces campus only.

# PHYS 2231. Supplemental Instruction to General Physics for Life Sciences I

### 1 Credit (1)

This optional workshop supplements Physics for Life Sciences I. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 2230G.

### PHYS 2240G. General Physics for Life Science II 3 Credits (3)

This algebra-based course covers electricity, magnetism, light, atomic physics, and radioactivity. Special emphasis is given to applications in the life sciences This course is recommended for students in the life sciences and those preparing for the physics part of the MCAT. May be repeated up to 3 credits.

**Prerequisite(s):** a C- or better in PHYS 1230G or PHYS 2230G, and MATH 1220G or higher.

### PHYS 2240L. Laboratory to General Physics for Life Science II 1 Credit (1)

Laboratory experiments in topics associated with material presented in PHYS 2240.

**Prerequisite(s)/Corequisite(s):** PHYS 2240G. Restricted to Las Cruces campus only.

### PHYS 2241. Supplemental Instruction to General Physics for Life Sciences II

### 1 Credit (1)

This optional workshop is a supplement to Physics for Life Science II. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 2240G.

### PHYS 2996. Special Topics

#### 1-3 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

### PHYS 2997. Independent Study

#### 1-3 Credits

Individual analytical or laboratory studies directed by a faculty member. May be repeated for a maximum of 6 credits.

Prerequisite: consent of instructor.

# PL-S-PARALEGAL SERVICES (PL S)

### PL S 160. Legal System for the Paralegal

### 3 Credits (3)

Introduction to the court system, administrative agencies, functions of law offices, and professional conduct and legal ethics. Restricted to: Community Colleges only.

Prerequisite(s): ACT standard score in English of 16 or higher or a Compass score 76 or higher; for those scoring 13-15 in English on ACT or 35-75 on Compass, successful complete of CCDE 105N or CCDE 110N; for those scoring 12 or below on the ACT standard score in English or 34 or below on the Compass, successful completion of CCDE 105N & CCDE 110N.

### PL S 161. Legal Terminology

### 3 Credits (3)

Survey of the language of the law that will serve either as an introductory course or as a review course to prepare students for the certification test.

### PL S 162. The Virtual Law Office

### 3 Credits (3)

The Virtual Law Office class is a 'hands-on', project oriented course designated to provide the student with the basic law office skills needed to function successfully in a law office setting. The student will gain a practical, working knowledge of the procedures necessary to work in a law office. The skills learned in the class will directly translate to real life situations. Restricted to: Community Colleges only.

Prerequisite(s): PL S 160.

### PL S 180. Constitutional Law for the Paralegal

### 3 Credits (3)

Case standing of the law of the Constitution and Bill of Rights with regard to day-to-day applications in the law practice. Documents dealing with constitutional problems in both civil and criminal areas of law will be drafted and discussed.

Prerequisite: PLS 160.

### PL S 190. Criminal Law for the Paralegal

### 3 Credits (3)

Introduction to federal and state criminal law; criminal proceedings, prosecution and defense, sentencing and appeal.

Prerequisite: PL S 160.

### PL S 200. Legal Ethics for the Paralegal

### 3 Credits (3)

Introduction to ethical dilemmas faced in the workforce and the rules of ethics developed by the American Bar Association, various national paralegal organizations, and the Supreme Court of New Mexico. Restricted to: Community Colleges only.

Prerequisite(s): PL S 160.

### PL S 203. Immigration Law

#### 3 Credits (3)

Survey of the basics of immigration law including the rights and obligations of citizenship and the naturalization process.

Prerequisite: PL S 160.
PL S 221. Internship I

### 2-4 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships can be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. Restricted to Community Colleges campuses only. **Prerequisite(s):** PL S 274.

### PL S 222. Internship II

#### 1-3 Credits

Continuation of PL S 221. Each credit requires specified number of hours of on-the-job work experience. Restricted to Community Colleges campuses only.

Prerequisite(s): PL S 221.

# PL S 231. The Law of Commerce for the Paralegal 3 Credits (3)

Law of contracts, negotiable instruments, bank transfers, secured transactions, debtor-creditor relations, agency, and business types and their formation. Students will study the relevant statutes as well as draft documents associated with these types of legal practice. Restricted to: Community Colleges only.

Prerequisite(s): PL S 160.

### PL S 272. Bankruptcy Law for the Paralegal

### 3 Credits (3)

Individual and corporate bankruptcy; the basic principles and processes of bankruptcy law as a system of debtor relief and debt collection.

Prerequisite: PL S 160.

## PL S 274. Legal Research and Writing for the Paralegal I 3 Credits (3)

Legal memoranda, briefs, and pleadings will be prepared and written based on the student s original research. Research materials and techniques will be identified and studied; introduction of computer usage in legal research.

Prerequisite: PL S 160 and ENGL 1110G.

### PL S 275. Tort and Insurance for the Paralegal 3 Credits (3)

Primary legal principles of tort and insurance law and means of establishing insurance plans, types of torts and insurance, as well as use of specific forms and procedures relating to these areas.

Prerequisite: PL S 160.

### PL S 276. Wills, Trusts, and Probate for the Paralegal

Cases and statutes dealing with wills, trusts, and probate. Emphasis on preparation and drafting of documents and the application of the law and documents to the client s problems.

Prerequisite: PL S 160.

### PL S 277. Family Law for the Paralegal

### 3 Credits (3)

Methods of conducting client interviews and drafting of pleadings and research relative to families. Laws relating to marriage, divorce, custody, support, adoption, name change, guardianship, and paternity.

Prerequisite: PL S 160.

### PL S 278. Litigation for the Paralegal

#### 3 Credits (3)

The law of procedure and evidence will be considered through rules and cases. Case situations will be used to identify and solve problems.

Prerequisite: PL S 160.

# PL S 279. Legal Research and Writing for the Paralegal II 3 Credits (3)

Continuation of PL S 274. Advanced training in legal research problems with a focus on analysis, writing, and preparation of sophisticated legal memoranda and documents.

Prerequisite: PLS 274.

# PL S 280. Interviewing and Investigation for the Paralegal 3 Credits (3)

Techniques of legal interviewing and investigation with emphasis on development of human relations and communication skills.

Prerequisite: PLS 160.

### PL S 298. Independent Study

### 1-3 Credits (1-3)

Individual studies directed by consenting faculty with prior approval by department head. Restricted to Community Colleges campuses only. **Prerequisite(s):** PL S 160.

### **POLS-POLITICAL SCIENCE**

### POLS 1110G. Introduction to Political Science 3 Credits (3)

This course covers fundamental concepts in political science, such as political theories, ideologies, and government systems.

### POLS 1111. Introductory Government Seminar 1 Credit (1)

Introduction to the government major. Designed to assist students in planning college experience and preparing for professional or advanced educational opportunities upon graduation. Graded: S/U. Restricted to: Main campus only.

### POLS 1120G. American National Government

#### 3 Credits (3)

This course explains the role of American national government, its formation and principles of the Constitution; relation of state to the national government; political parties and their relationship to interest groups. This course also explains the structure of the legislative, executive, and judicial branches.

# POLS 1130G. Issues in American Politics 3 Credits (3)

This course is designed to introduce the students to the contemporary study of American political issues. The course analysis of government policies, examining various approaches to the economy, democracy and the structure and the function of American political institutions.

### POLS 2120G. International Relations

### 3 Credits (3)

This course covers the analysis of significant factors in world politics, including nationalism, national interest, political economy, ideology, international conflict and collaboration, balance of power, deterrence, international law, and international organization.

### POLS 2996. Special Topics

#### 3 Credits (3)

Specific topics to be announced in Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits.

### **PORT-PORTUGUESE (PORT)**

### PORT 1110. Portuguese I

#### 3 Credits (3)

Designed for students with no previous exposure to Portuguese, this course develops basic listening, speaking, reading, and writing skills. This is an introductory course aimed at teaching the student to communicate in Portuguese in everyday situations.

### PORT 1120. Portuguese II

#### 3 Credits (3)

A continuation of Portuguese I, students will develop a broader foundation in skills gained during the first semester, including understanding, speaking, reading and writing Portuguese. Students will also gain more in- depth knowledge of Portuguese-speaking cultures.

Prerequisite: C or better in PORT 1110 or consent of instructor.

### PSYC-PSYCHOLOGY

### PSYC 1110G. Introduction to Psychology

### 3 Credits (3)

This course will introduce students to the concepts, theories, significant findings, methodologies, and terminology that apply to the field of psychology.

### PSYC 2221. Applied Psychology

### 3 Credits (3)

Explanation of the psychological principles of everyday living. Emphasizes motivation, learning of intelligent behavior, and applications of psychology to social issues. Community Colleges only.

### PSYC 2230. Psychology of Adjustment

### 3 Credits (3)

This course focuses on the individual's adjustment to society, and the application of psychological principles to the understanding of adjustment.

# PSYC 2311. A Study of Substance Abuse through Learning 3 Credits (3)

Physiological and psychological impact of drug use on human behavior. Emphasizes practical applications of intervention and prevention in the community. Community Colleges only.

# RADT-RADIOLOGIC TECHNOLOGY (RADT)

# RADT 100. Introduction to Radiologic Technology and Patient Care 2 Credits (2)

Overview of the profession, including ethics, terminology, and basic radiation protection. Addresses basic and specialized procedures and topics related to the care of the patient. Restricted to: Community Colleges only. Restricted to Majors.

### RADT 101. Radiographic Positioning I

### 4 Credits (2+6P)

Covers radiographic procedure and positioning concepts, techniques, terminology, and mechanics related to the thorax, abdomen, extremities, spine and pelvis. Includes positioning lab and clinical observation.

## RADT 102. Radiographic Positioning II 4 Credits (2+6P)

Continuation of RADT 101. Includes skull, gastrointestinal, urinary, reproductive, biliary systems, and more advanced skeletal positions. Includes positioning lab and clinical observation.Restricted to:

Community Colleges only. Restricted to Majors.

Prerequisite: RADT 101.

## RADT 103. Introduction to Radiographic Imaging 3 Credits (2+2P)

Provides the student with an in-depth knowledge of radiographic exposure technique and the factors affecting radiographic film quality. Includes lab experiments. Restricted to majors.

### **RADT 104. Special Radiologic Modalities**

#### 2 Credits (2)

Discussion of various special procedures used in medical imaging such as, angiography, ultrasound, computerized tomography, magnetic resonance imaging, digital imaging, nuclear medicine, radiation therapy, etc. Includes guest lectures and field trips.

Prerequisite: RADT 103.

### RADT 105. Radiographic Physics and Equipment

3 Credits (3)

Fundamentals of rad physics. Includes electromagnetism, x-ray production and interactions, x-ray circuitry, tubes, grids, screens, AES, fluoroscopic and portable units, beam restricting devices, calibration and quality assurance/control. Overview of mammography, US, CT, MRI, and digital radiography. Restricted to: Community Colleges only. Restricted to Maiors.

Prerequisite: RADT 103 or consent of instructor.

### **RADT 110. Radiographic Pathology**

#### 1 Credit (1)

Overview of pathology demonstrated by radiographic procedures. Restricted to majors.

Prerequisite: RADT 154.

### RADT 154. Radiographic Anatomy and Physiology

#### 3 Credits (3)

Basic A&P for radiographic application. Includes a systems approach to body structures and organs as they relate to anatomical projections, radiographic identification, and various imaging modalities. Restricted to: RADT majors. Restricted to: Community Colleges only.

**Prerequisite(s):** AHS 153 or AHS 140 or BIOL 2210 or BIOL 1130, or consent of instructor.

### **RADT 156. Independent Study**

### 1-6 Credits (1-6)

Individual studies/research on topics related to the radiological sciences. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

### RADT 190. CT Equipment and Methodology

### 3 Credits (3)

Skill development in the operation of computed tomographic equipment, focusing on routine protocols, image quality, and quality assurance and radiation protection. May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

### **RADT 200. Radiation Biology and Protection**

### 2 Credits (2)

Biological effects of ionizing radiation on cells and tissues. Includes radiation measurements, policies and protection measures for self, patients, and others. Restricted to majors. Restricted to: Community Colleges only.

Prerequisite(s): RADT 103.

RADT 201. Clinical Education I

### 7 Credits (32P)

Supervised practice in a radiology department under direct supervision of a registered technician. Includes film critiques. Community Colleges Only. Restricted to: RADT,OERT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): RADT 105.

RADT 202. Clinical Education II

#### 11 Credits (33P)

Continuation of RADT 201. Student will work under indirect supervision of registered personnel. May be repeated up to 11 credits. Restricted to: OERT,RADT majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OERT 201.

### **RADT 203. Clinical Education III**

### 11 Credits (33P)

Continuation of RADT 202. May be repeated up to 11 credits. Restricted to: RADT,OERT majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** RADT 202.

## RADT 205. Radiographic Image Critique 1 Credit (1)

Review of radiographs produced in clinical settings to evaluate anatomy and technical issues. Restricted to majors.

Prerequisite: RADT 201.

# RADT 206. Applied Radiographic Procedures 2 Credits (1+3P)

Advanced course which integrates the principles and techniques of radiologic technology. Restricted to majors.

Prerequisite: RADT 202.

# RADT 207. Cross Sectional Anatomy for Medical Imaging 3 Credits (3)

Anatomic relationships that are present under various sectional orientations as depicted by computed tomography or magnetic resonance imaging. May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

# RADT 208. Clinical I (Computed Tomography) 3 Credits (9P)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. May be repeated up to 3 credits. Restricted to: RADT or CTOM majors. Restricted to Community Colleges campuses only.

# RADT 209. Clinical II (Computed Tomography) 3 Credits (9P)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. (Capstone Course). May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

# RESP - RESPIRATORY THERAPY (RESP)

### RESP 110. Respiratory Therapy I

### 3 Credits (3)

Introduction to basic respiratory care techniques. Includes history, professional organizations, medical gas administration, oxygen therapy, cardiopulmonary AP, patient assessments, and medical terminology. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

### RESP 110 L. Respiratory Therapy I Lab

#### 2 Credits (2)

Laboratory practice of basic respiratory care procedures. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

### RESP 115. Respiratory Therapy Pharmacology

#### 3 Credits (3)

Concepts of physics as they apply to the physiology of the lungs. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

# RESP 120. Respiratory Therapy II 4 Credits (4)

Advanced respiratory care techniques. Emphasis on airway management, aerosol treatment, chest physiotherapy, pharmacology, posture pressure breathing, and pulmonary rehabilitation. Requires a C or better to remain in program. May be repeated up to 4 credits. Students must be admitted into program to enroll in this course. Restricted to Community Colleges campuses only.

Prerequisite(s): RESP 110. Corequisite(s): RESP 120 L.

### RESP 120 L. Respiratory Therapy II Lab

### 2 Credits (6P)

Continuation of lab practices and procedures learned in RESP 120, Respiratory Care II, using equipment and simulations. Requires a C or better to remain in program. Students must be admitted to the program to enroll in this course. Corequisite(s):RESP 120. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 110, RESP 110L and RESP 112.

### RESP 124. Respiratory Therapy II Clinical

#### 3 Credits (9P)

Supervised practice and application in a hospital setting. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 110, RESP 110L and RESP 112.

Corequisite(s): RESP 120 and RESP 120L.

### RESP 155. Respiratory Therapy Special Topics

### 1-4 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 10 credits. Consent of instructor required. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program.

### **RESP 210. Respiratory Therapy III**

#### 2 Credits (2)

Introduction to adult, mechanical, neonatal ventilator theory and concepts of critical care medicine. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 115, RESP 120, RESP 120L, and RESP 124.

Corequisite(s): RESP 210L.

### RESP 210 L. Respiratory Therapy III Lab 2 Credits (2)

Advanced practice procedures using mechanical ventilation devices. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 115, RESP 120, RESP 120 L, and RESP 124. Corequisite(s): RESP 210.

### RESP 224. Respiratory Therapy IV Clinical

#### 3 Credits (9P)

Continuation of RESP 124. Emphasis on mechanical ventilators. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 115, RESP 120, RESP 120 L, and RESP 124.

### RESP 230. Respiratory Therapy V

#### 3 Credits (3)

Continuation of RESP 215. Emphasis on special modalities. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

### RESP 230 L. Respiratory Therapy V Lab

#### 2 Credits (2)

Advanced practice and procedures of respiratory care. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

### RESP 233. Respiratory Therapy Cardiopulmonary 2 Credits (2)

Concepts of physics as they apply to the physiology of the lung. Emphasis on laws pertaining to gas flow, humidity, and the mechanics of the breathing process. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

### RESP 234. Respiratory Therapy V Clinical 3 Credits (3)

Continuation of RESP 214. Emphasis on special modalities. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

### **RESP 240. Respiratory Therapy VI**

### 3 Credits (3)

Advanced theory of hemodynamics, neonate, pediatric, and new specialties that apply to respiratory care. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 230, RESP 230L, RESP 233 and RESP 234.

Corequisite(s): RESP 240L.

### RESP 240 L. Respiratory Therapy VI Lab

### 2 Credits (6P)

Advanced laboratory practice and procedures. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 230, RESP 230L, RESP 233 and RESP 234. Corequisite(s): RESP 240.

### RESP 242. Pediatric Advanced Life Support (PALS) 1 Credit (1)

Etiology, diagnosis, clinical manifestations, and management of cardiopulmonary disorders related to respiratory care. Restricted to majors.

Corequisite(s): RESP 230.

# RESP 243. Respiratory Therapy Neonatal Resuscitation 1 Credit (1)

Advanced practice of the neonatal resuscitation and certification. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors. **Prerequisite(s):** RESP 230, RESP 230L, RESP 233, and RESP 234.

Corequisite(s): RESP 240 and RESP 244.

### RESP 244. Respiratory Therapy VI Clinical

### 3 Credits (9P)

Clinical experience on special modalities. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 230, RESP 230L, RESP 233 and RESP 234. Corequisite(s): RESP 240.

### **RESP 255. Respiratory Therapy Special Topics**

### 1-4 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 4 credits. Consent of instructor required. Restricted to: Community Colleges only. Restricted to RESP majors. **Prerequisite(s)**: Admission to program.

### **RGSC-RANGE SCIENCE (RGSC)**

### **RGSC 1110. The Range Science Profession**

### 1 Credit (1)

Introduction to scientific disciplines and career opportunities in rangeland science and management.

## RGSC 2110. Introduction to Rangeland Management 3 Credits (3)

This course covers the principles of managing and understanding pasture and rangelands. Plant physiology and ecology, plant communities and rangeland sustainability and how they relate to livestock production and wildlife management will be discussed. Restricted to: Main campus only.

### **RGSC 2996. Special Topics**

### 1-4 Credits

Specific subjects and credits announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

### **SIGN-SIGN LANGUAGE**

## SIGN 1110. American Sign Language I 3 Credits (3)

American Sign Language I is an introductory level language course in the language of the American Deaf Culture. Content includes ASL vocabulary and conversational skills; linguistic features of ASL; and skills in narrative/storytelling. In-class activities, comprehension and expressive examinations, narrative and storytelling assignments in addition to semester projects are venues for students to demonstrate their learning. In addition, Deaf Culture and Deaf Community issues are addressed.

## SIGN 1120. American Sign Language II 3 Credits (3)

American Sign Language II is a continuation course that builds on concepts and skills developed in American Sign Language I. Students gain further exposure to ASL structure and grammar, and Deaf Culture and the Deaf community. Emphasis is on increasing students' ability to comprehend other signers and express themselves with more elaboration when conversing or presenting in ASL.

Prerequisite: SIGN 1110 or consent of instructor.

# SIGN 2110. American Sign Language III 3 Credits (3)

This is an intermediate level course in American Sign Language (ASL). Expected areas of intermediate skill and knowledge development include: language comprehension and production, conversational use, narratives, ASL language features and further knowledge of and interaction with Deaf culture and the Deaf community.

Prerequisite: SIGN 1120.

# SMET-SCIENCE/MATH/ENG/TECH (SMET)

# SMET 201. Research for Visiting Community College Students 1 Credit (1)

Research experience for visiting community college students. Consent of instructor required. Restricted to: Main campus only.

### **SOCI-SOCIOLOGY**

## SOCI 1110G. Introduction to Sociology 3 Credits (3)

This course will introduce students to the basic concepts and theories of sociology, as well as to the methods utilized in sociological research. The course will address how sociological concepts and theories can be utilized to analyze and interpret our social world, and how profoundly our society and the groups to which students belong influence them. Students will be given the opportunity to challenge their "takenforgranted" or "common sense" understandings about society, social institutions, and social issues. Special attention will also be paid to the intimate connections between their personal lives and the larger structural features of social life. In addition, the implications of social inequalities, such as race/ethnicity, gender, and social class will be central to the course's examination of social life in the United States.

### SOCI 2230. Sociology of Sexuality

### 3 Credits (3)

This course explores all aspects of human sexuality from a sociological perspective. Topics include, but are not limited to, sex work, intimate relationships, sexual response, political movements, power, and the social construction of sexuality. The course also considers how various social statuses such as ethnicity, gender, and social class intersect with sexuality.

### SOCI 2240. Sociology of Intimate Relationships and Family 3 Credits (3)

This course provides an overview of contemporary intimate relationships and families from sociological perspectives. We will examine intimate relationships and families as social constructions whose meanings have changed over time and from place to place. This course will aid students in developing a greater understanding of intimate relationships and families as institutions in contemporary U.S. society. Intersections of race, class, gender, sexual orientation, nationality, and other factors within these institutions will be addressed. Community Colleges only.

# SOCI 2261. Issues in Death and Dying 3 Credits (3)

Major personal and social issues related to the process of dying in our culture. Community Colleges only.

# SOCI 2310G. Contemporary Social Problems 3 Credits (3)

This course studies the nature, scope, and effects of social problems and their solutions. The course will concentrate on sociological perspectives, theories, and key concepts when investigating problems, such as inequality, poverty, racism, alienation, family life, sexuality, gender, urbanization, work, aging, crime, war and terrorism, environmental degradation, and mass media. This course is designed to build students' sociological understanding of how sociological approaches attempt to clarify various issues confronting contemporary life, as well as how sociologists view solutions to these problems.

### SOIL-SOIL (SOIL)

# SOIL 2110. Introduction to Soil Science 3 Credits (3)

An overview of fundamental concepts in soil science and soils as a natural resource. Students will be introduced to the physical, chemical, and biological properties as it relates to soil management in environmental science, conservation, and agronomy. Prerequisite: (CHEM 1120G or MATH 1215 or higher) or CHEM 1215G

### SOIL 2110L. Introduction to Soil Science Laboratory 1 Credit (1)

Morphological, chemical, physical and biological properties of soil in the laboratory and field.

Corequisite(s): SOIL 2110.

### SOIL 2996. Special Topics

#### 1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree. May be repeated up to 9 credits. Consent of Instructor required.

### **SOWK-SOCIAL WORK**

## SOWK 2110G. Introduction to Human Services & Social Work 3 Credits (3)

This course is for students who are interested in social welfare issues and/or are considering entering a social service profession. The course presents an overview of social problems, issues and trends, and the network of social agencies developed to address these concerns. The course examines the influence of personal and professional values and ethics on the helping relationship. The concept of social welfare will be discussed from a social work perspective (with an emphasis on social justice), and students will gain a basic understanding of social work in U.S. society, social work career opportunities, and contemporary issues facing social workers. Approaches relevant to work with individuals, families, groups and communities are presented, with special emphasis on Hispanic and Indigenous populations of New Mexico and the Southwest.

### SOWK 2111. Women's Issues in Social Work

### 3 Credits (3)

Examines gender-specific social problems and their identification and resolution through the use of social agencies and community resources. Community Colleges only.

### **SPAN-SPANISH (SPAN)**

### SPAN 1110. Spanish I

### 4 Credits (4)

Designed for students with little exposure to Spanish, this course develops basic listening, speaking, reading, and writing skills and basic intercultural competence in interpretive, interpersonal and presentational modes of communication at the Novice Level of proficiency based on ACTFL guidelines. During this course, students perform better and stronger in the Novice Mid level while some abilities emerge in the Novice High range. This is an introductory course aimed at helping the student to communicate in Spanish in everyday familiar situations via recognition and production of practiced or memorized words, phrases, and simple

**Prerequisite(s):** language placement and/or assessment by departmental examination.

### SPAN 1120. Spanish II

### 4 Credits (4)

Designed for students with some degree of exposure to Spanish in high school and/or at home, this course continues to develop basic listening, speaking, reading, and writing skills and basic intercultural competence in interpretive, interpersonal and presentational modes of communication based at the Novice High Level of proficiency based on ACTFL guidelines, although a few abilities may emerge in the Intermediate Low Level. Students in this course communicate in Spanish in familiar topics using a variety of words, phrases, simple sentences and questions that have been highly practiced and memorized.

**Prerequisite:** language placement and/or assessment by departmental examination or a C- or better in SPAN 1110.

## SPAN 1210. Elementary Spanish for Heritage Learners I 3 Credits (3)

This is a beginning-level Spanish course designed for students who have a cultural connection to the Spanish language. Some students have had very little exposure to the language and enter the class to develop beginning-level skills. Other students may have grown up hearing the heritage language in the community and may understand some Spanish and speak at a basic level as a result. The objective is to draw upon the connection to the heritage language as a source of motivation and engagement for our learning communities. At the same time, we build upon the language base that students may already have as a result of their heritage learner experience in order to develop new proficiencies in Spanish and reactivate the Spanish that students have learned previously. By the end of this course, students will be able to describe their home, campus surroundings and common activities including cultural traditions. At the same time, students gain cultural competency and develop a critical understanding of their linguistic and cultural background. Students who have previously earned a C or better in SPAN 1110 or SPAN 1120 may not recieve credit for this course.

## SPAN 1220. Spanish for Heritage Learners II 3 Credits (3)

Spanish as a Heritage Language II is a second semester class designed for students who have developed some basic Spanish proficiency from previous classes and/or from community experiences. This course provides students with the opportunity to develop their proficiency in the four language skills (speaking, listening, reading, and writing). Class activities are designed to strengthen oral communication skills (speaking and listening) through a variety of group activities. By the end of the course students will be able to understand and produce narrations of past events in oral and written Spanish. In order to foster a desire to revitalize and maintain the Spanish language in the US context we attempt to raise students' critical awareness of what it means to be part of a specific speech community.

### SPAN 2110. Spanish III 3 Credits (3)

This course is based on the integration of learning outcomes across Interpersonal, Interpretive, and Presentational Modes of Communication at the Intermediate Low Level of proficiency based on ACTFL guidelines. Students accomplish real-world communicative tasks in culturally appropriate ways as they gain familiarity with the target culture(s). This is an intermediate course aimed at helping the student to communicate in Spanish on familiar topics about self, others and everyday life at the same time that they recognize and handle short social interactions in interactions in everyday situations by asking and answering a variety of questions.

**Prerequisite:** language placement and assessment by departmental examination or C or better in SPAN 1120.

#### SPAN 2120. Spanish IV

### 3 Credits (3)

This course is based on the integration of learning outcomes across Interpersonal, Interpretive, and Presentational Modes of Communication at the Intermediate Low Level of proficiency based on ACTFL guidelines. Students accomplish real-world communicative tasks in culturally appropriate ways as they gain familiarity with the target culture(s). This is an intermediate course aimed at helping the student to communicate in Spanish on familiar topics about self, others and everyday life at the same time that they recognize and handle short social interactions in interactions in everyday situations by asking and answering a variety of questions.

**Prerequisite:** language placement and assessment by departmental examination or C or better in SPAN 2110.

### SPAN 2210. Spanish for Heritage Learners III 3 Credits (3)

Intermediate Spanish for Heritage Speakers I is a third semester course designed for students who have been raised in a Spanish-speaking environment and speak, or understand, some Spanish as a result of hearing it in the home, and in the community by family, friends, and neighbors. Students in this course will continue to develop their ability to narrate events in the past and will be able to describe hypothetical situations. Students will also develop their ability to express wishes, desires, and necessities. This course will help the student build confidence in their Spanish abilities and expand the language use in the areas of writing, reading, oral production and listening comprehension. In order to foster a desire to revitalize and maintain the Spanish language we attempt to raise students' critical awareness of wider issues facing Spanish speakers in the US context.

### SPED-SPECIAL EDUCATION (SPED)

### SPED 2130. Society

#### 3 Credits (3)

Development of culturally responsive learning strategies, skills and utilization of support services, to enchance academic achievement. Restricted to: Main campus only.

### SPED 2996. Topics

#### 3 Credits (3)

Offered under various subtitles that indicate the subject matter to be covered. May be repeated 3 times for a maximum of 9 credits.

### SPHS-SPEECH & HEARING SCIENCE

## SPHS 2110. Introduction to Communication Disorders 3 Credits (3)

This introductory course provides an overview of common speech, language, and hearing disorders in children and adults including etiologies, characteristics, prevention, identification, assessment and intervention. The course provides an overview of the field of speech-language pathology and audiology.

### SPMD-SPORTS MEDICINE

### SPMD 1110. Introduction to Athletic Training

### 3 Credits (3)

Introduction to the principles of athletic training. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

### SPMD 1120. Medical Terminology

#### 3 Credits (3)

Study of the structure of medical language with emphasis on sports medicine-related terminology. To include analysis and interpretation of medical documentation. Restricted to: Las Cruces campus only.

### SPMD 1190. Clinical Practicum I

### 2 Credits (2)

Introduction to the clinical aspects of the athletic training education program. Must maintain at least 3.0 GPA. May be repeated up to 4 credits. Consent of Instructor required. Restricted to: Athletic Training majors. Restricted to Las Cruces campus only.

#### SPMD 1195. Clinical Practicum II

#### 3 Credits (3)

Athletic training related content and psycho-motor skills are introduced, enhanced, and assessed in the classroom and clinical rotations. Emphasis is on competencies and proficiencies previously instructed in didactic courses while providing increased depth of understanding and clinical practice. Must maintain a 3.0 GPA. May be repeated up to 3 credits. Consent of Instructor required.Restricted to: Athletic Training majors.

### SPMD 1310. Introduction to Kinesiology

### 3 Credits (3)

An introduction to the field of Kinesiology which will explore areas such as exercise physiology, sport and exercise psychology, motor behavior, biomechanics, strength and conditioning, exercise prescription, as well as professional and graduate programs, and allied health and applied careers opportunities.

# SPMD 1350. Social Foundations of Physical Activity 3 Credits (3)

Historical and cultural foundations and vocational, scientific, and educational data on careers in health education, physical education, and recreation.

### SPMD 2130. Emergency Response in Sports Medicine 2 Credits (2)

Designed to provide knowledge and experience in emergency care procedures, blood borne pathogens, and first aid. Students will receive certification in CPR/AED for the Professional Rescuer and in First Aid, upon successful completion of course. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

Prerequisite(s): Consent of Instructor.

### SPMD 2210. Anatomy and Physiology I

#### 3 Credits (3)

Detailed study of the structure and function of the human musculoskeletal, cardiovascular, respiratory, and peripheral nervous systems. Designed specifically for students interested in allied health professions.

# SPMD 2210L. Anatomy and Physiology Laboratory 1 Credit (1P)

Students will engage in activities designed to enhance appreciation of the anatomical structures related to the content areas for SPMD 2210. Restricted to Las Cruces campus only.

## SPMD 2250. Fitness for Health and Sport 3 Credits (3)

A study of the fitness needs for health enhancement and sport participation. Restricted to: EXSC,KIN,P E,S ED,SP M majors.

### SPMD 2310. Career Preparation

#### 1 Credit (1)

From concept to implementation: Career exploration, setting up degree plans, finding graduate programs, developing professional resumes, writing letters of application, seeking letters of recommendation, and interview preparation. Graded: S/U Grading (S/U, Audit).

### **SUR-SURVEYING (SUR)**

### SUR 222. Plane Surveying

### 3 Credits (2+3P)

Theory and practice of geomatics as applied to plane surveying in the areas of linear measurements, angle measurements, area determination, differential and trigonometric leveling, and topographic mapping.

Crosslisted with: DRFT 222. **Prerequisite(s):** MATH 1250G.

### SUR 264. Introduction to LIS

#### 3 Credits (2+3P)

Introduction to land information systems. Land tenure systems, coordinate systems, computer methods.

Prerequisite(s)/Corequisite(s): DRFT 109.

### SUR 285. Precise Digital Mapping

#### 3 Credits (3)

Photogrammetric Mapping Principles, digital sensor including optical cameras, terrestrial, surveying control, IMU & GPS integration, stereo photography, analytical triangulation, orthorectification, precision and accuracy of measurement systems, sUAS (Small Unmanned Aerial Vehicles) applications to geospatial data collection and practical applications project fight/pre planning, sensor platform, FAA regulations and restrictions, introduction to laser scanning systems. Restricted to Las Cruces campus only.

# SUR 292. Public Land Survey System Boundaries 3 Credits (3)

Fundamentals of the U.S. Public Land Survey System; rules for the survey of the public lands, field surveys; the rectangular system, corners, monuments, evidence; dependent and independent resurveys, corner restoration; plats and field notes, patents. Restricted to Las Cruces campus only.

# SURG-SURGICAL TECHNOLOGY (SURG)

# SURG 120. Surgical Technology Clinical I 2-4 Credits (6P)

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. This course is designed to prepare the student to enter the surgical environment. This course provides an introduction to the operating room, observation of surgical procedures, direct participation in the preoperative (pre-op, intra-op, post-op) preparation of individual cases and professional roles and responsibilities of individual members of the surgical team. Direct supervision is provided by the clinical professional. May be repeated up to 4 credits. Students must be admitted into Surgical Technology Program to enroll in this course.

Prerequisite(s): BIOL 2310, BIOL 2210, BIOL 2225, NURS 150.

Corequisite(s): SURG 140, SURG 145.

## SURG 140. Introduction to Surgical Technology 4 Credits (4)

This is an orientation to surgical technology theory, surgical pharmacology and anesthesia, technology sciences and patient care concepts and is designed to prepare the student to enter the surgical environment with entry-level knowledge necessary to understand patient responses to disease, illness, hospitalization, surgical procedures, commonly used pharmacological and anesthetic agents, and legal, moral, and ethical issues that could be encountered in the surgical environment. Restricted to Community Colleges campuses only.

Prerequisite(s): Admission to Surgical Technology Program; BIOL 2310, BIOL 2225, & NURS 150.

## SURG 145. Fundamentals of Perioperative Concepts & Techniques 4-5 Credits (3+3P)

This is an in-depth coverage of perioperative concepts such as aseptic/ sterile principles and practice, infectious processes, wound healing and creation and maintenance of the sterile field. This course is designed to prepare the student to enter the surgical environment with entry-level knowledge of aseptic technique principles and practices, the creation and maintenance of the sterile field including equipment, supplies and instrumentation, and basic case preparation and procedures. An introduction to diseases and disease processes that may be displayed by the surgical patient and the patient's bodily responses to disease are also included. May be repeated up to 5 credits.

Prerequisite(s): Admission to Surgical Technology Program, BIOL 2310, BIOL 2210, BIOL 2225, & NURS 150.

### SURG 150. Surgical Procedures I 4-5 Credits (3-5+3P)

This course is an introduction to surgical procedures and its related pathologies. Emphasis on surgical procedures related to general, obstetrics/gynecology, genitourinary, otorhinolaryngology and orthopedic surgical specialties incorporating instruments, equipment. It is designed to prepare the student to function actively in the surgical environment with entry-level knowledge of surgical procedures. This course expands the basic foundation principles and combines the study of common surgical procedures to include anatomy, physiology and pathophysiology. Specific patient care concepts, medications, instrumentation, equipment, supplies and complication related to selected surgical procedures will be discussed. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 140, SURG 145, and SURG 120.

# SURG 155. Pharmacology for the Surgical Technology 2 Credits (2)

This is an orientation to surgical pharmacology and anesthesia and is designed to prepare the student to enter the surgical environment with knowledge necessary to categorize the classification of drugs, calculate drug dosages and identify the therapeutic use, routes of administration, indications, contraindications and adverse effects of pharmacologic agents used in the perioperative setting. This course is the foundation for the acquisition of program specific competencies as identified by the AST Core Curriculum. Restricted to Carlsbad campus only.

## SURG 160. Surgical Procedures II 6 Credits (6)

This an introduction to surgical procedures and related pathologies. Emphasis on surgical procedures related to thoracic, peripheral vascular, plastic/reconstructive, ophthalmology, cardiac and neurological surgical specialties incorporating instruments. The course is designed to prepare the student to continue to function actively in the surgical environment with entry-level knowledge of more complex surgical procedures. This course expands the basic foundation principles and combines the study of complex surgical procedures to include anatomy, physiology, and pathophysiology. Specific patient care concepts, medications, instrumentation, equipment, supplies, and complications related to specific surgical procedures will be discussed. Realities of clinical practice and concepts of death and dying will also be discussed. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 150, SURG 260.

### SURG 230. Professional Readiness

2 Credits (2)

This course transitions the student into professional readiness for employment, professional readiness for attaining certification and professional readiness for maintaining certification status. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 140, SURG 145, SURG 120, SURG 150, SURG 260.

Corequisite(s): SURG 160,SURG 265.

# SURG 260. Surgical Technology Clinical II 4 Credits (12P)

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. This course is designed to provide the student the opportunity to function actively in the role as a surgical technologist and health care team member in a clinical setting under the direct supervision of faculty and health care staff. Applications of basic principles and practices combined with a supervised clinical experience participating in common surgical procedures is the focus. Admission to Surgical Technology Program necessary to enroll in the course. Restricted to Community Colleges campuses only.

Prerequisite(s): SURG 120, SURG 140, & SURG 145.

## SURG 265. Surgical Technology Clinical III 4 Credits (9P)

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. This course is designed to provide the student the opportunity to function actively in the role of a surgical technologist and health care team member in a clinical setting under the direct supervision of faculty and health care staff. Refinement and application of basic principles and practices combined with entry-level employment competency expectations is the focus. Preparation for the National Certification Examination for Surgical Technologists is also included. Admission to Surgical Technology Program necessary to enroll in the course. Prerequisite(s): SURG 260.

# TCEN-ENVIRONMENTAL/ENERGY TECH (TCEN)

# TCEN 101. Energy for the Next Generation 3 Credits (2+2P)

This course will survey a broad range of sources of energy, types of energy, energy storage, and the forms of energy. Students will be exposed to theory in the classroom, laboratory exercises, and field trips to provide them with a solid foundation for all subsequent energy related environmental courses. Crosslisted with: OETS 101.

**Prerequisite(s)/Corequisite(s):** OETS 118 or MATH 1215. Restricted to: Community Colleges only.

### TCEN 105. Building Analyst I 3 Credits (2+2P)

This course is designed to provide the foundational knowledge and expertise necessary for the energy auditor and home performance contractor. Crosslisted with: OETS 105. Restricted to: Community Colleges only.

# TCEN 106. Building Analyst II 3 Credits (2+2P)

Designed to prepare the student for the BPI Building Analyst Certification. This course will walk the student through the hands-on process of conducting visual building inspections, diagnostic testing, identifying improvement opportunities, documenting a home's performance and preparing a scope of work. Crosslisted with: OETS106.

**Prerequisite(s)/Corequisite(s):** TCEN 105 or OETS 105. Restricted to: Community Colleges only.

# TCEN 110. Photovoltaic Application 4 Credits (3+2P)

This course will provide an introduction to Photovoltaic (PV) installation. The course will provide instruction on site selection, prep, installation, and maintenance for photovoltaic applications. Students that complete the course and have the opportunity to take the entry level exam with the North American Board of Certified Energy Practitioners (NABCEP) en route to becoming Certified Installers. Crosslisted with: OETS110. Prerequisite(s)/Corequisite(s): TCEN 101 or OETS 101. Restricted to: Community Colleges only.

## TCEN 111. Basic Electrical Principles I, DC Circuits 4 Credits (3+2P)

Course begins with the basics of electricity and DC circuits. Includes categorization of material properties within conductors, semiconductors, and insulators. Gradual progression tackles more complex topics like DC circuit analysis of series and parallel circuits, including Kirchhoff's laws, Thevenin's & Norton's theorems, and superposition. Finally DC combination circuits, magnetism and electromagnetism, generators and motors are covered. Emphasis on safety throughout. May be repeated up to 4 credits.

**Prerequisite(s)/Corequisite(s):** OETS 104 or MATH 1215. Restricted to Community Colleges campuses only.

# TCEN 112. PV Power Generation Design Fundamentals 3 Credits (2+2P)

A study of photo voltaic design basics, photo voltaic (PV) Cells, modules, and system components; electrical circuits; grid-tied/grid-interactive PV system design and sizing for use on homes; solar electric products and applications; and understanding energy conversion from sunlight to electricity, and working with solar conversion equipment. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 111 and (0ETS 104 or MATH 1215). Restricted to Community Colleges campuses only.

### TCEN 113. OSHA 10 Hour Construction Hazard Identifications 1 Credit

Intended for entry-level participants to provide instruction on a variety of construction safety and health standards. Topics include Introduction to OSHA, Electrical, Ladder, Excavation, Scaffold, and Forklift Hazards, Fall Protection, Materials Handling, Personnel Protective Equipment and Confined Space Entry Hazards. Meets OSHA 10-Hour Requirements.

# TCEN 115. Wind Power Generation Design Fundamentals 3 Credits (2+2P)

Course covers wind turbine module descriptions and functions and wind system installation, operation, and troubleshooting. Additional topics include wind energy harvesting and the conversion process from the generator system to electricity. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 111 and (OETS 104 or MATH 1215). Restricted to Community Colleges campuses only.

# TCEN 121. Basic Electrical Principles II, AC Circuits 4 Credits (3+2P)

Course begins with an overview of the primary components of AC circuits, such as resistors, inductors, rectifiers, transformers and capacitors, and then gradually introduces new, more complicated topics like applying AC principles in power generation and generators, motors, parallel and combination circuits, troubleshooting and evaluation of circuit conditions. May be repeated up to 4 credits.

**Prerequisite(s)/Corequisite(s):** TCEN 111 and (OETS 104 or MATH 1215). Restricted to Community Colleges campuses only.

# TCEN 156. Building Envelope 3 Credits (2+2P)

Designed to prepare the student for the BPI Building Envelope Certification. This course will provide the principles behind building performance testing and the purpose of completing a comprehensive energy audit. Through lecture and subsequent field training, the student will learn how to use building diagnostics to develop a prescriptive plan for enhancing comfort, health & safety, building durability, and energy savings. The student will learn how to outline the follow-up process required after completion of the retrofit. Crosslisted with: OETS156. Restricted to: Community Colleges only.

Prerequisite(s): TCEN 106 or OETS 106.

# TCEN 205. NEC for Alternative Energy 4 Credits (2+4P)

This hands-on course will cover the National Electrical Code specifics concerning photovoltaic installation. Also code compliant wiring of basic electrical systems will be covered. Existing installations will be visited and studied. Restricted to: Community Colleges only.

Prerequisite(s): TCEN 101 and ELT 105.

### TCEN 220. Cooperative Experience

### 1-3 Credits (1-3)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. May be repeated up to 6 credits. Consent of Instructor required.

**Prerequisite(s)/Corequisite(s):** MAT 235. Prerequisite(s): TCEN 180. Restricted to: TCEN majors. Graded: S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

## TCEN 221. Roofing Materials and Methods 3 Credits (2+2P)

Covers application techniques and estimation of asphalt and wood roofing products and accesories including gutters and flashing. Presents roof penetration, roof loading issues, and energy system installation requirements for mounting photo voltaic or solar thermal systems.

Prerequisite(s): TCEN 112.

## TCEN 222. Photo Voltaic Grid Tie Installation 4 Credits (3+2P)

This is a more advanced course culminating in a PV system-to-grid connection. This course includes gathering site specific data, design, wire type and sizing specific to project, installation of all solar modules and balance of system (BOS)components, and grounding and bonding of system components, all in accordance with the latest NEC. Upon project design approval a system will be commissioned for the grid. Decommissioning will commence after measurements and troubleshooting as directed by the instructor. May be repeated up to 4 credits

Prerequisite(s)/Corequisite(s): TCEN 121 and TCEN 223. Prerequisite(s): TCEN 111 and TCEN 112. Restricted to Community Colleges campuses only.

## TCEN 223. Photo Voltaic National Electrical Code Principles 2 Credits (2+1P)

Focuses on all sections of the National Electrical Code and local code requirements applicable to photo voltaic electrical installation. A partial list of areas covered is chapters one through four and section 690, 'Solar Photovoltaic Systems' of the National Electrical Code.

Prerequisite(s): TCEN 112.

Prerequisite(s)/Corequisite(s): TCEN 222.

### TCEN 224. Field Experience

### 1-3 Credits (1-3)

Student will collaborate with instructor in proposing, defining, implementing, and analyzing outcomes of a project in the Environmental and Energy fields of study. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: TCEN majors. Restricted to: Community Colleges only.

# TCEN 241. Solar Thermal SHW Principles/Installation and Maintenance 3 Credits (2+2P)

Course presents the theory, installation, operation, and maintenance of solar hot water (SHW) systems. Topics include the types of systems to choose, the costs associated with SHW installation and operation, system sizing requirements, batteries and battery chemistry. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OETS 104 or MATH 1215.

## TCEN 246. Building Weatherization & Auditor Fundamentals 3 Credits (3)

Course provides information on how to locate air leaks and identify heat losses or gains through specific testing. Students will learn how to inspect and evaluate building envelopes, mechanical systems, and ventilation systems to determine the safety and energy consumption for each system. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): TCEN 113 and OETS 104.

Corequisite(s): TCEN 221.

# TCEN 251. Advanced Photo Voltaic On/Off Grid Installation 3 Credits (2+2P)

Photo Voltaic advanced topics to include panel racking and installation, battery storage, charge controllers, mechanical integration of arrays on buildings, and key elements involved in choosing a mounting system. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 222. Restricted to Community Colleges campuses only.

### TCEN 252. NABCEP Entry-Level Exam Review 2 Credits (2)

Course presents knowledge, key terms, and concepts of photovoltaic systems and solar hot water systems as related to the NABCEP Entry-level exam. This exam is for those wanting to enter the workforce in either solar thermal or solar PV. Scheduling and taking the exam is the responsibility of the student. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s): TCEN 222.

## TCEN 253. Renewable Energy System Troubleshooting and Maintenance 3 Credits (2+2P)

Covers wind, solar and solar thermal system troubleshooting and maintenance topics to include equipment, electrical, and installation problem areas. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 251. Prerequisite(s): TCEN 222. Restricted to Community Colleges campuses only.

### TCEN 254. Renewable Energy Internship

#### 2 Credits (2)

Student will receive industry-related renewable energy experiences at an approved industry location. Typical areas of hands-on practices will be installing solar PV, solar hot-water systems, or wind energy systems. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): TCEN 112 and 113 and 222.

### THEA-THEATER

### THEA 1110G. Introduction to Theatre

#### 3 Credits (3)

This course provides an introduction to the study of theatre. Students will examine various components that comprise theatre, such as acting, directing, playwriting, dramaturgy, scenic and costume design, stagecraft, spectatorship, history, theory, and criticism.

### THEA 1210G. Acting for Non-Majors

### 3 Credits (3)

This class gives non-majors experience in the depth and craft of the actor's art. Students will learn various terms, techniques, and practices of acting and will demonstrate their understanding in class. Through exercises and improvisations, partnered scenes, and group work, students will be better able to appreciate the work of others as they learn techniques of performing. May be repeated up to 3 credits.

### THEA 1221. Beginning Acting

### 3 Credits (3)

Basic understanding of self-expression through a variety of physical exercises, improvisation, and character study, culminating in scene or monologue work. Restricted to: THTR majors.

### THEA 1222. Stage Movement

### 3 Credits (3)

Physical techniques for the actor to develop kinesthetic awareness and skills in characterization, archetypes, and stage combat. Restricted to: THTR majors.

### THEA 1223. The Art of Theatre

### 3 Credits (3)

This course introduces the variety and scope of theatre professions, the value and goals of the theatre major and an analysis of the art form from script to stage. Restricted to: Required for THTR majors majors.

### THEA 1310. Introduction to Costuming

### 3 Credits (3)

This course introduces students to basic skills generally used in creating costumes for theatre. During the semester students will be introduced to the costume shop, equipment, supplies, and processes. They will learn the process of sewing a garment and running a stage production.

Prerequisite(s)/Corequisite(s): THEA 1310L. Restricted to: THTR majors.

### THEA 1310L. Costume Craft Lab

#### 1 Credit (1)

Class members will assist in construction for productions in a studio environment.

Prerequisite(s)/Corequisite(s): THEA 1310.

### THEA 1415. Running Crew I

#### 2 Credits (1+2P)

Students learn about backstage and front of house production positions and work on a technical aspect of a product in a rehearsal and performance environment.

## THEA 2221. Intermediate Acting: Scene Study and Monologues 3 Credits (3)

Monologues and scene work, using character and script analysis. Prerequisite(s):

Prerequisite(s): THEA 1221 or THEA 1210 with C- or above.

### THEA 2222. Intermediate Acting for Non-Majors

### 3 Credits (3)

A continuation of THEA 1210 with an emphasis on monologues, scenes and characterization. Prerequisite(s): THEA 1210

### THEA 2310. Stagecraft

#### 3 Credits (3)

Student will explore basic skills for scenic designers and techniques of set construction for the stage, including building scenery, rigging, painting and properties.

Prerequisite(s)/Corequisite(s): THEA 2310L.

### THEA 2310L. Stagecraft Laboratory

### 1 Credit (1)

Class members will assist with construction for productions in a studio environment.

Prerequisite(s)/Corequisite(s): THEA 2310.

### THEA 2340. Introduction to Design

### 3 Credits (3)

Introduction into our visual world via the language of designers, focusing on collaboration, creative thinking and presentation skills. The varied design professions in theatre and the performing arts will be explored. Restricted to: Required of all THTR Majors.

### THEA 2415. Running Crew II

### 1 Credit (1)

Students learn about backstage and front of house production positions and work on a technical aspect of a product in a rehearsal and performance environment.

## THEA 2421. Vocal Production for the Actor 3 Credits (3)

Exploration and development of the actor's vocal instrument, including relaxation, projection, diction and articulation. May be repeated up to 3 credits. Restricted to: THTR majors.

### THEA 2993. Theatre Workshop I

### 0.5 Credits (.5)

Required for all freshman and sophomore theatre majors, this course coordinates all processes within Theatre Arts, providing a forum for discussion and feedback. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

### **THEA 2996. Theatre Topics**

### 1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 9 credits.

### **WATR-WATER UTILITIES (WATR)**

### WATR 120. Introduction to Water Systems

#### 3 Credits (3)

Introduction to and theory of groundwater sources, production, treatment, and distribution.

## WATR 130. Wastewater Collection and Basic Treatment Systems 3 Credits (3)

Introduction to wastewater characteristics, collection, and basic treatment operations.

### WATR 140. Applied Water and Wastewater Math I

#### 3 Credits (3)

Introduction to basic water and wastewater mathematics, flows through distribution networks and collection systems, and fundamentals of flow measurement.

Prerequisite: CCDM 114 N or equivalent.

### WATR 160. Systems Maintenance

#### 4 Credits (2+4P)

Basic tools, equipment, maintenance schedules, chlorinator troubleshooting, and chlorine safety. Hands-on training with valves, pumps, meters and chlorination equipment.

### WATR 175. Programmable Logic Controllers 2 Credits (2)

This course will introduce students to electrical safety, theory, and the function, operations, programming and troubleshooting of the PLC controlling common electrical components utilized in control circuits associated with the water and wastewater industry. Restricted to: Community Colleges only.

### WATR 180. Water Chemistry

### 3 Credits (3)

Basic chemistry with applications to water and wastewater analysis. **Prerequisite:** CCDM 114 N or consent of instructor.

### WATR 182. Water Chemistry Analysis

### 1 Credit (3P)

Beginning water and wastewater laboratory analysis including gravimetric, volumetric, and quality control techniques.

Prerequisite: CCDM 114 N or equivalent or consent of instructor.

### WATR 190. Water and Wastewater Microbiology

#### 3 Credits (3)

Overview of microorganisms associated with water and wastewater. Growth and reproduction, energy production, and methods of counting. **Prerequisite:** WATR 130, WATR 180, or consent of instructor.

## WATR 192. Water and Wastewater Microbiological Analysis 1 Credit (3P)

Introduction to water and wastewater treatment operational tests such as BODs, solids testing, activated sludge control tests, use of microscope, and bacteriological techniques.

Prerequisites: WATR 130 and WATR 182, or consent of instructor.

### WATR 200. Internship

#### 3-5 Credits

On-the-job training/work experience with municipalities or industries, working in water or wastewater treatment plants, high purity water plants, industrial waste plants, distribution systems, or wastewater collection systems. May be repeated up to 5 credits. Consent of Instructor required. Restricted to: Water Technology majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

### WATR 220. Water Treatment Systems

#### 3 Credits (3)

Theory of water systems operation including surface water treatment, fluoridation, sodium zeolite softening, corrosion control, iron removal, various filtration methods, and overview of SDWA.

Prerequisites: WATR 180 and WATR 182 or consent of instructor.

### WATR 222. Water Systems Operation

#### 1 Credit (3P)

Operations of various water treatment systems including surface water treatment, sodium zeolite softeners, and various filtration methods.

Prerequisite: WATR 220 or consent of instructor.

### WATR 230. Advanced Wastewater Treatment

#### 4 Credits (4)

Calculations and operations involved in wastewater and water reclamation plants.

Prerequisites: WATR 140, WATR 190, and WATR 192, or consent of instructor.

### WATR 232. Wastewater Systems Operations

### 1 Credit (3P)

Operation of pretreatment, primary, and biological treatment units.

Prerequisite: WATR 230 or consent of instructor.

### WATR 240. Advanced Water and Wastewater Math II

### 3 Credits (2+2P)

Advanced water and wastewater mathematics. Flow measurement. Systems head and pump curves.

Prerequisites: WATR 140.

### WATR 250. Municipal Systems Management

### 4 Credits (4)

Management of water utility systems including laws, finance, records, and safety.

Prerequisites: WATR 120, WATR 130.

### WATR 270. Special Topics

### 1-4 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

### WATR 275. Certification Review

#### 3 Credits (3)

Review of water and wastewater plant operations and laws in preparation for state certification exams. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): WATR 120, WATR 130, WATR 140, WATR 160.

## WATR 285. High Purity Water Treatment Systems 3 Credits (3)

Principles of high purity water production including microfiltration, ultrafiltration, reverse osmosis, and deionization.

Prerequisite: WATR 220.

## WATR 287. Advanced Water Chemistry Analysis 3 Credits (6P)

Sampling techniques, analysis, and evaluation of potable water contaminants using gravimetric, volumetric, spectrophotometric, and other instrumentation methods. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): WATR 285. Restricted to Community Colleges campuses only.

# WATR 290. Advanced Wastewater Microbiology and Chemistry 3 Credits (3)

Covers NPDES permits and DMR calculations and reporting; 503 sludge regs, including pathogen and vector attraction reduction and pollutants; wetlands, composting, and wastewater treatment ponds microbiology; activated sludge bulking and foaming microbiology and treatment; and use of selector to remove nutrients and prevent the growth of filamentous bacteria.

Prerequisite: WATR 190, WATR 192.

### WATR 292. Advanced Wastewater Analysis

#### 3 Credits (6P)

Covers sampling techniques, analysis, and evaluation of wastewater contaminants using gravimetric, volumetric, spectrophotometric, and other instrumentation methods.

Prerequisite: WATR 190 and WATR 192.

# WELD-WELDING TECHNOLOGY (WELD)

### WELD 100. Structural Welding I

### 6 Credits (3+6P)

Development of basic skills in SMAW, OFC, and OFW in accordance with the AWS entry-level welder program.

### WELD 101. Fundamentals of Welding

#### 3 Credits (3)

Set-up and adjustment of ARC and oxyacetylene equipment. Welding safety procedures and terminology. Skill development in laying weld beads with various patterns, positions, and processes.

### WELD 102. Welding Fundamentals

### 3 Credits (2+2P)

Survey of welding and cutting processes for nonmajors. Classroom instruction and laboratory work with OFC/OFW, SMAW, GMAW, FCAW, and plasma arc cutting.

### WELD 105. Introduction to Welding

### 3 Credits (3)

Welding practices, procedures, and terminology. Welding safety, equipment types, electrode types in usage, joint design and testing procedures.

### WELD 110. Blueprint Reading (Welding)

### 3 Credits (3)

Interpretation of prints related to welding. Emphasis on AWS standard symbols for welding, brazing, and nondestructive examination.

### WELD 115. Structural Welding II

### 6 Credits (3+6P)

Continuation of WELD 100. Emphasis on AWS entry and advanced level welder skills with SMAW, including all-position welding with mild and stainless steel electrodes. Plasma arc and air-carbon arc cutting, metallurgy, heat treatment, and weld defects.

Prerequisite: WELD 100.

### WELD 120. Basic Metallurgy

#### 3 Credits (3)

Properties of ferrous and nonferrous materials. Service conditions and heat treatment of metals related to welding trade.

Prerequisites: WELD 100 or consent of instructor.

### WELD 125. Introduction to Pipe Welding

#### 3 Credits (2+2P)

Pipe fit-up and welding techniques for pipe fitting and pipe weld joint using SMAW, GMAW, GTAW, and FCAW, 2G welding of pipe. Restricted to: Community Colleges only.

Prerequisite(s): WELD 100, WELD 130, and WELD 140, or consent of instructor.

### WELD 126. Industrial Pipe Welding

### 3 Credits (3)

Enhancement of WELD 125. Development of more advanced pipe welding skills

Prerequisite(s): WELD 110, WELD 130 and WELD 140.

Corequisite(s): WELD 125.

### WELD 130. Introduction to GMAW MIG)

#### 3 Credits (2+2P)

Development of basic skills with gas metal arc welding (MIG) in accordance with AWS entry-level welder objectives. Wire electrodes, shielding/purge gases, and modes of metal transfer.

### WELD 140. Introduction to GTAW TIG)

### 3 Credits (2+2P)

Development for basic skills with gas tungsten arc welding (TIG) in accordance with AWS entry/advanced welder objectives. Welding mild steel, tungsten electrode preparation, filler wire selection, and equipment set-up.

### WELD 150. Pipe Welding II

#### 3 Credits (2+2P)

Continuation of WELD 125; with fillet and groove welded joints in a horizontal fixed and 45-degree fixed positions (5-F, 5-G, 6-F, 6-G).

Prerequisite: WELD 125.

### WELD 151. Industrial Pipe Welding II

### 3 Credits (3)

Enhancement of WELD 150. Development of more advanced pipe welding skills. Emphasis on industry driven test.

Prerequisite(s): WELD 125 and WELD 126.

Corequisite(s): WELD 150.

### WELD 160. Introduction to SAW and FCAW

### 3 Credits (2+2P)

Submerged arc and flux-cored arc welding. Demonstrations and practice with machine travel submerged arc welding (SAW), flux-cored arc welding (FCAW-G, FCAW-S) on mild steel plate and pipe. Restricted to: Community Colleges only.

### WELD 170. Welded Fabrication

### 3 Credits (1+4P)

Development of fabrication skills including basic layout, measuring, and utilization of various welding processes including out-of-position welding. Use of common shop tools.

Prerequisites: WELD 100, WELD 110, WELD 130, and OETS 104 or OETS 118.

#### WELD 180. GTAW II

#### 3 Credits (2+2P)

Continuation of WELD 140. Development of more advanced GTAW skills. Emphasis on pipe welding with mild steel, stainless steel, and aluminum. **Prerequisite:** WELD 140 or consent of instructor.

### WELD 190. Welded Art

#### 3 Credits (1+4P)

Students explore the possibilities of welded art in the form of sculpture, jewelry, furniture and as a framework to support other art media. Offered as an elective for students who wish to create art using welding. May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): WELD 102.

### WELD 211. Welder Qualification

### 6 Credits (3+6P)

Laboratory and classroom instruction on AWS and ASME Welder Performance Qualification Tests. All position plate and pipe techniques and tests for SMAW, GMAW, GTAW, FCAW, and SAW. Nondestructive and destructive examination methods. Basics of welding codes. Restricted to majors.

**Prerequisites:** OETS 104 or OETS 118; and WELD 100, WELD 110, WELD 120, WELD 130, WELD 140, WELD 160 and WELD 180 or consent of instructor.

### WELD 221. Cooperative Experience I

#### 1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U. Restricted to majors.

Prerequisites: WELD 100 or WELD 101 and consent of instructor.

### WELD 255. Special Problems in Welding Technology 1-6 Credits

Individual studies in areas of welding technology. May be repeated for a

maximum of 12 credits.

Prerequisite: consent of instructor.

### WELD 295. Special Topics

#### 1-4 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

### **Personnel**

### **Campus Executive Administrators**

Campus President - Pending

Garcia, Juanita, VP for Student Services, M.Ed., Eastern New Mexico University

Nwanne, Dr. Andrew, CAO/Provost for Academic Affairs; Ph.D., University of North Texas

# Volpi, Dr. Karla, VP for Business and Finance, Ph.D., Grand Canyon University

### **Professional Staff**

- Borkorm, Bright Director of Institutional Analysis, Ed.D, Benedictine University
- Campos, Diana CC Director, Financial Aid; M.A., New Mexico State University
- Carnathan, Janice Administration Assistant, Special/Executive, President's Office, A.A., New Mexico State University
- Davis, Valerie Component Program Manager, M.B.A., New Mexico State University
- Dodson, Teri Program Manager Sr., Grant Services; M.S.N., New Mexico State University
- Dunaway, Melissa Director of the Learning Assistant Center, M.S., Jacksonville State University
- Eubank, Corey Manager, Systems Administration, M.B.A., New Mexico State University
- Hardin, Dianne Associate Professor/Director of Nursing; M.S.N., University of New Mexico
- Jasso, Bertha CC Manager, Adult Education, M.A., New Mexico State University
- Jones, Haley Student Accessibility Services Coordinator, MS, Kansas State University
- Klaus, Sky Director of Marketing & Publications, B.F.A., Western New Mexico University
- Liu, Andre STEM Data Management Coordinator, M.A., San Diego State University
- Melbourne, Nicholas Director of the Small Business Development Center, B.A, New Mexico State University
- Morales, Ron Humberto Title V Adelante Activity Director, M.B.A., New Mexico State University
- Moreno, Luz Multi- Media Specialist, Learning Technology Center, M.A., New Mexico State University
- Neal, Jeff Manager Facilities Services, B.S.B.A., New Mexico State University
- Silva, Rebecca Business Manager, Business Office; M.B.A., New Mexico State University
- · Thompson, Karla CC Director, M.S., College of the Southwest

### **Full Time Faculty**

- Abdaljalil, Talal Instructor of Industrial Maintenance; M.S., New Mexico State University
- Addington, April Instructor of Mathematics, M.S., University of Southern Indiana
- Al-Nouman, Jamil Associate Professor, Engineering; Ph.D., New Mexico State University
- Aryal, Pradip Associate Professor, Mathematics; Ph.D., New Mexico State University
- Biebelle, Patricia Assistant Professor, English; M.F.A., University of Oregon
- Buckholz, Mark Emeritus Professor, English/Communication Arts;
   Ed.D., New Mexico State University, MFA, Yale University
- Chappa, Eduardo Professor, Mathematics/Developmental Mathematics; Ph.D., University of Washington

- Childs, Ashley College Instructor, Nursing, B.S., Nursing, New Mexico Highlands University
- Conard, Scott Assistant Professor of Digital Media; M.F.A., University of Cincinnati
- · Davis, Lacy Jo Instructor, English; M.A., Angelo State University
- · Girmus, Ronald Professor, Biology; Ph.D., University of Arizona
- Hamedi, Jalal Professor, Psychology/Sociology; Ed.D., Tennessee State University
- Harris, Monty Associate Professor, Anatomy & Physiology, Doctor of Chiropractic; Sherman College of Chiropractic
- Hartsock, Iris College Assistant Professor, Allied Health; M.S.N./ED, RN, University of Phoenix
- Hayes, Robyn Emeritus Professor, Chemistry; M.S., University of Nebraska- Lincoln
- Henson, Dodie Instructor of Surgical Instructor, A.S., San Jacinto Community College
- Huang, Yiqun Assistant Professor, Chemistry, Ph.D., Purdue University
- Josselet, Kenda Professor, Government/History; M.A., West Texas A & M University
- King, Chris Instructor of Welding, A.A., New Mexico State University Carlsbad
- Kuh, Erin Instructor of Allied Health; M.B.A., R.D., Dominican University
- Lee, Chang Associate Professor, Spanish; Ph.D., University of California, Los Angeles (UCLA)
- Ngale, Kenneth Assistant Professor, Chemistry; Ph.D., University of North Dakota
- Quintana, David College Instructor, Automotive Technology;
   B.E.E.D., New Mexico State University
- Packer, Debra Emeritus Professor, Mathematics, M.A., Central Michigan University
- Spencer, Philip College Instructor, Welding; A.G.S., New Mexico State University – Carlsbad
- Strahan, Jon Assistant Professor, Business; M.S., Arizona State University
- Titus, Pamela Associate Professor, Nursing; M.S.N., New Mexico State University
- Tupper, Jennifer Instructor of Nursing; DNP, RN, FNP-BC; New Mexico State University
- Vacca, John Professor, Psychology; Ph.D., Union Institute & University
- Villa, Samantha Director/Instructor, Library Services; M.L.S., University of North Texas
- · Wiedenmann, Richard Professor, Biology; M.S., Baylor University
- Zhao, Hongxia, Assistant Professor, Mathematics, Ph.D., Clemmer College
- · Zhao, Yaxi Professor, Mathematics; Ph.D., University of Kentucky
- Zuniga, Deborah College Instructor, Nursing; B.S.N., New Mexico State University
- Zuniga, Gina Professor, Nursing; M.S.N. C. N. E., University of New Mexico

### Support Staff

- · Able, Charles Facilities Tech, Physical Plant
- Banks, Marty Grant Services, Administrative Assistant, Associate

- Bernal, Lupe Library Specialist, Library, A.G.S., New Mexico State University
- · Blatsvich, Robert Custodial Worker Sr., Physical Plant
- Byers, Lori Help Desk Rep., Intermediate Associate, Information Systems
- · Cassels, Donald Electrician, Physical Plant
- · Castillo, Robert Facilities Tech, Physical Plant
- · Caughron, Joy Administrative Assistant, Associate, SBDC
- · Cox-Tindol, Judith HR Operations Unit Coordinator, President's Office
- Espino, Freddy Classroom Media Tech., A.A., DACC
- · Garcia, Annette Financial Aid Specialist, Financial Aid
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- Gonzalez, Tamara Fiscal Assistant, Intermediate, Business Office
- · Griego, Joyce Data Records Coordinator, Adult Education
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- · Lopez, Rafael Facilities Tech, Physical Plant
- Martinez, Rosalinda Library Assistant, Library, A.A., New Mexico State University
- Mata, Delma Custodial Worker Sr., Physical Plant
- Mathis, Mandy Administrative Assistant, General, Business Office, A.A., New Mexico State University
- · Melbourne, Cristal Customer Service Assistant, Health Clinic
- · Mendez, Cheryl Library Assistant, Library
- Mendez, Evelyn Administrative Assistant Associate, Financial Aid
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- · Orozco, Josie Custodial Worker Sr., Physical Plant
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- · Roper, Gary Facilities Technician Sr., Physical Plant
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- Sapien, Michelle Fiscal Assistant, Intermediate, Business Office
- Theragood, Merdia Administrative Assistant, Sr., Campus Academic/Provost Office, B.I.S, New Mexico State University
- Trujillo, Antonieta Inventory Control Clerk
- Vidal, Guadalupe Lab Coordinator, Science Department, Ph.D., New Mexico State University
- · Wallace, Lisa Program Coordinator, Grant Services
- · Williams, Darlene Custodial Worker Sr.

# **INDEX**

A	
A S-ARTS AND SCIENCES	196
Academic Programs	7
Academic Support Services, Costs, Campus Resources, Student Activ	
Accounting - Certificate	
Accounting and Banking	. 94
ACCT-ACCOUNTING	196
ACES-AGRI, CONSUMER & ENV SCIE	197
Administration	5
Admissions	8
Adult Education and GED Preparation	47
AEEC-AGRICULTURAL ECON/ECON	197
AERO-AEROSPACE STUDIES	197
AERT-AEROSPACE TECHNOLOGY	198
Agriculture	. 96
Agriculture - Associate of Applied Science	. 96
AGRO-AGRONOMY	199
AHS-ALLIED HEALTH SCIENCE	199
ANSC-ANIMAL SCIENCE	199
ANTH-ANTHROPOLOGY	201
Apprenticeship Program	48
ARCH-ARCHITECTURE	201
ART-ART	203
ARTH-ART HISTORY	203
ARTS-ART STUDIO	203
Associate Degree and Certificate Programs	. 93
Associate of Arts and General Studies	98
Associate of Arts Degree	98
Associate of Science Degree	185
ASTR-ASTRONOMY	205
Auto Body Collision and Repair	100
Auto Body Collision Repair - Associate of Applied Science	102
AUTO-AUTOMOTIVE TECHNOLOGY	206
Automotive Refinishing - Certificate	103
Automotive Technology	104
Automotive Technology - Associate of Applied Science	107
Automotive Technology - Certificate	107
AVIM-AVIATION MAINTENANCE	208
AXED-AGRICULTURAL EXTN EDUC	208

### В

ט	
B A-BUSINESS ADMINISTRATION	209
Banking - Certificate	95
Barnes & Noble Bookstore	48
BCHE-BIOCHEMISTRY	209
BCIS-BUSINESS COMPUTER SYSTEMS	209
BCT-BUILDING CONSTRUCTION TECH	209
BFIN-BUSINESS FINANCE	211
BIOL-BIOLOGY	211
BLAW-BUSINESS LAW	212
BLED-BILINGUAL EDUCATION	212
BMGT-BUSINESS MANAGEMENT	213
BOT-BUSINESS OFFICE TECHNOLOGY	215
Building Technology	108
Building Technology - Associate of Applied Science	110
Building Trades - Certificate	111
BUSA-BUSINESS ADMINISTRATION	215
Business Management	111
Business Management - Associate of Applied Science	113
Business Office Technology	114
Business Office Technology - Certificate	118
Business Office Technology (Accounting) - Associate of Applied Scie	
Business Office Technology (Administrative Assistant) - Associate	117 e of 117
C	
C E-CIVIL ENGINEERING	215
C S-COMPUTER SCIENCE	
Career and Job Placement Services	
Carlsbad Academic Catalog	
CCDE-DEVELOPMENTAL ENGLISH	
CCDM-DEVELOPMENTAL MATHEMATICS	
CCDR-DEVELOPMENTAL READING	
CCDS-DEVELOPMENTAL SKILLS	
CEPY-COUNSELING & EDUCATIONAL PSYCHOLOGY	
CHEF-CULINARY ARTS	
	220
	221
CHME-CHEMICAL & MATERIALS ENGR	
CHSS - COMM HEALTH/SOC SRVCS	
Citizen's Professional Advisory Councils	
CJUS-CRIMINAL JUSTICE	

Common Course Numbering Crosswalk	53	Early Childhood Education - Certificate	. 147
Community Education	48	ECED-EARLY CHILDHOOD EDUCATION	238
Computer and Information Technology	119	ECON-ECONOMICS	240
Computer and Information Technology (IT Specialist) - Associate of A	Applied	EDLT-EDUCATIONAL TECHNOLOGY	. 240
Science		EDUC-EDUCATION	240
Computer and Information Technology (Networking) - Associate of A Science		Education	148
Computer and Information Technology (Programming) - Assoc	iate of	Education - Associate Degree	. 148
Applied Science	124	ELAD-EDUCATIONAL LEADERSHIP ADMINISTRATION	. 241
Counseling and Student Development Center	48	ELT - ELECTRONICS TECHNOLOGY	. 241
Course Descriptions	194	ELWK-ELECTRICAL LINEWORKER	242
Criminal Justice	125	Emergency Medical Technician	. 150
Criminal Justice - Associate in Criminal Justice	126	Emergency Medical Technician Basic - Certificate	. 153
CSEC-CYBERSECURITY	223	Emergency Medical Technician Intermediate - Certificate	. 153
CTEC-CYBER TECHNOLOGY	223	Emergency Medical Technician Paramedic - Associate of Applied Sc	
CTFM-CLTHNG/TXTLS/FSHN MRCHDSG	225		
D		Emergency Medical Technician Paramedic - Certificate	
DANC-DANCE	225	Engineering	156
DAS-DENTAL ASSISTING	227	Engineering - Associate of Science	. 157
Developmental Programs and Services	49	ENGL-ENGLISH	243
DHYG-DENTAL HYGIENE/HYGIENIST		ENGR-ENGINEERING	245
Digital Animation - Certificate		Enrollment in Graduate Courses	9
Digital Graphics - Certificate		ENTR-ENTREPRENEURSHIP	245
Digital Media Technology		ENVS-ENVIRONMENTAL SCIENCE	245
Digital Media Technology (Digital Animation) - Associate of A		EPWS-ETMLGY/PLNT PTHLGY/WD SCI	. 245
Science		Essential Information for Students	7
Digital Media Technology (Digital Graphics) - Associate of Applied S		F	
Digital Media Technology (Digital Video) - Associate of Applied S		FCSC-FAMILY AND CONSUMER SCIENCES	245
Signal Weda Technology (Signal Video) 7,0000late of Applied C		FCST-FAMILY AND CHILD STUDIES	. 246
Digital Video - Certificate	133	FDMA-FILM & DIGITAL MEDIA ARTS	. 246
Digital Video Game Animation - Certificate	133	Fields of Study	52
DMS-DIAGNOSTIC MED SONOGRAPHY	230	Financial Aid & Scholarship Services for the NMSU System	10
Drafting and Graphics Technology	138	FIRE-FIRE INVESTIGATION	250
Drafting and Graphics Technology - Certificate	141	FREN-FRENCH	252
Drafting and Graphics Technology (Architectural Technology) - Assort		FSTE-FOOD SCIENCE & TECHNOLOGY	
Drafting and Graphics Technology (General Drafting) - Associate of A		FWCE-FISH,WILDLF,CONSERV ECOL	
Science		FYEX-FIRST YEAR EXPERIENCE	. 253
DRFT-DRAFTING	232	G	
E		GENE-GENETICS	254
= E E-ELECTRICAL ENGINEERING	235	General Education Courses	11
E T-ENGINEERING TECHNOLOGY	235	General Studies - Associate Degree	
Early Childhood Education		GEOG-GEOGRAPHY	
Early Childhood Education - Associate Degree		Geographical Information Systems	. 158

GEOL-GEOLOGY	255	LANG-LANGUAGE	26
GNDR-WOMEN'S STUDIES	255	LAWE-LAW ENFORCEMENT	26
Graduation Requirements	15	Learning Assistance Center	. 50
GRMN-GERMAN	255	Learning Technology Center	. 50
Н		LIBR-LIBRARY SCIENCE	268
Health Information Technology	158	Library and Media Center	. 50
Health Information Technology - Associate of Applied Science		Licensed Practical Nursing - Certificate	179
Health Information Technology - Certificate		LING-LINGUISTICS	268
Heritage Interpretation		M	
Heritage Interpretation - Associate of Arts	161	M E-MECHANICAL ENGINEERING	268
Heritage Interpretation - Certificate	162	M SC-MILITARY SCIENCE	269
HIST-HISTORY	256	Manufacturing Technology	170
History of NMSU Carlsbad	6	Manufacturing Technology (Electronics Assembly) - Associate of Ap	
HIT-HEALTH INFO TECHNOLOGY	257	Science	
HLED-HEALTH EDUCATION	258	Manufacturing Technology (Manufacturing Processes) - Associate Applied Science	
HMSV-HUMAN SERVICES	258	MAT-AUTOMATION & MANUFACTURING	
HNRS-HONORS	258	MATH-MATHEMATICS	
HORT-HORTICULTURE	260	MGMT-MANAGEMENT	
Hospitality and Tourism	163	Microcomputer Applications - Certificate	
Hospitality and Tourism (Food & Beverage) - Associate of Applied Scie		Military and Veterans Programs (MVP)	
		MKTG-MARKETING	
Hospitality and Tourism (Lodging & Tourism) - Associate of Applied Scie		MUSC-MUSIC	272
HOST-HOSPITALITY AND TOURISM	260	N	
HRTM-HOTEL/RESTRNT/TOURISM MGT	261	NA - NURSING ASSISTANT	274
HVAC-HEATING/AC/REFRIGERATION	262	Natural Gas Compression Technology	
1		NAV-NAVAJO	
I E-INDUSTRIAL ENGINEERING	263	NGEC-NATURAL GAS ENGINE COMP	
Industrial Maintenance Technician (Electrical) - Associate of App	olied	Non-Structural Collision Repair - Certificate	103
Science	168	NURS-NURSING	
Industrial Maintenance Technician (Mechanical) - Associate of App Science		Nursing	17!
Industrial Maintenance Technology		Nursing - Applied Associate Degree	180
Industrial Maintenance Technology (Electrical) - Certificate		NUTR-NUTRITION	280
Industrial Maintenance Technology (Mechanical) - Certificate		0	
INMT - INDUSTRIAL MAINTENANCE		OATS-OFFICE ADMINISTRATION TECHNOLOGY SYSTEMS	280
INTEGRATED NATURAL SCIENCES		OEBM-BIOMEDICAL TECHNOLOGY	
International Students		OECS-COMPUTER TECHNOLOGY	
		OEEM- PARAMEDIC	28
JAPN-JAPANESE	264	OEET- ELECTRICAL TRADES	288
JOUR-JOURNALISM		OEGR-DIGITAL GRAPHIC TECH	
• • • • • • • • • • • • • • • • • • •	۷03	OEGS-GEOGRAPHIC INFO SYS	
L		OETS-TECHNICAL STUDIES	289
I SC-I IRRARY SCIENCE	265		

P	
Paralegal Studies	181
Paralegal Studies - Certificate	182
Personnel	306
PHED-PHYSICAL EDUCATION	289
PHIL-PHILOSOPHY	290
Phlebotomist Technician - Certificate of Achievement	183
PHLS-PUBLIC HEALTH SCIENCES	290
PHYS-PHYSICS	290
PL-S-PARALEGAL SERVICES	292
POLS-POLITICAL SCIENCE	293
PORT-PORTUGUESE	294
Pre-Business	183
Pre-Business - Associate in Pre-Business	183
PSYC-PSYCHOLOGY	294
R	
RADT-RADIOLOGIC TECHNOLOGY	294
Recognition of Academic Achievement	20
Registration	
Repeating Courses	
Resources for Students	
RESP - RESPIRATORY THERAPY	
RGSC-RANGE SCIENCE	296
S	
Science	184
Service Learning Opportunities	
SIGN-SIGN LANGUAGE	
Small Business Development Center	
SMET-SCIENCE/MATH/ENG/TECH	297
SOCI-SOCIOLOGY	297
Social Work	187
Social Work - Associate Degree	188
SOIL-SOIL	297
SOWK-SOCIAL WORK	298
SPAN-SPANISH	298
SPED-SPECIAL EDUCATION	299
	299
SPMD-SPORTS MEDICINE	299
Structural Collision Repair - Certificate	
Student Organizations	
SUR-SURVEYING	
SURG-SURGICAL TECHNOLOGY	300

Surgical Technology	189
Surgical Technology - Associate of Applied Science	191
Т	
TCEN-ENVIRONMENTAL/ENERGY TECH	301
The NMSU System Academic Regulations	. 25
THEA-THEATER	303
Transfer Students	. 22
Tuition, Fees and Other Expenses	. 24
V	
Video Conferencing and ITV	52
W	
WATR-WATER UTILITIES	304
Welcome	5
WELD-WELDING TECHNOLOGY (WELD)	305
Welding Technology	192
Welding Technology - Associate of Applied Science	193
Welding Technology - Certificate	194
WorkKeys	52