

Southeast New Mexico College

Southeast New Mexico College

2025-26 Catalog

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About the Campus

- Welcome
- History of Southeast New Mexico College
- Administration
- Personnel

Welcome

Most students never read the catalog introduction from the president. You are one of the few—and I want you to know you have made a wise choice!

It isn't because I will say anything that will change your life. But what is in this catalog can. You will find the pathways to adventure available to you at Southeast New Mexico College. Whether healthcare or high technologies, trades or transfer programs, you can start at SENMC and go anywhere and do almost anything. It begins with you—and what is in the pages that follow. As you read about the courses you could take, don't be intimidated by the titles or the descriptions. We are here to help you with every step and every challenge. You will not find a place more welcoming and committed to your success.

Take a look at the services we offer and do not hesitate to contact any one of our devoted faculty and staff. If you can't reach someone, call or e-mail me. I will put you in touch with the best person to serve you.

Welcome to the Mountain Lion family!

Kevin
575.234.9211
kbeardmore@senmc.edu

Our Mission

The mission of SENMC is to provide educational programs, training, and services that best serve our diverse students, communities, and industry.

Our Vision

Building bridges to a better life through education.

Institutional Values

Southeast New Mexico College is committed to and demonstrates:

- P--Persistence
- R-- Resilience, respect, and resourcefulness
- I--Inclusion and integrity
- D--Diversity
- E--Excellence

History of Southeast New Mexico College

Southeast New Mexico College "SENMC" 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 System. In 1980, the campus was relocated to a new building, which was expanded with an additional wing of classrooms in 1987. In 1996, a computer facility for occupational programs was added to the existing facilities. The newest building, the Allied Health Building, was completed in 2011 to house programs in Nursing and Allied Health.

The College celebrated its 70th year record of accomplishments on October 2, 2020. Throughout its existence, the College has helped shape lives and in turn, shape the community of Carlsbad. The College appreciate the continued support of Carlsbad and Eddy County community. Effective July 1, 2021, SENMC started another phase of its rich history by transitioning from NMSU-Carlsbad to Southeast New Mexico College as an independent Community College.

Accreditation

SENMC 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 SENMC 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 associate degree programs offered by SENMC are reviewed and approved by the New Mexico Higher Education Department.

Professional Associations

The college holds membership in the New Mexico Independent College Association, the American Association of Community Colleges and the American Association of Higher Education. In addition, courses offered by SENMC 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.

SENMC Graduation and Retention Rates

These rates may be found on the SENMC Institutional Research website.

Why Students Choose SENMC

Most students choose to attend SENMC because the campus is close to their homes. In contrast to attendance at larger institutions, students attending SENMC 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 other institutions—at an affordable tuition. Students also have the opportunity to complete their high school instruction and 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 College

SENMC 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 ratio encourages the individual attention and personalized instruction often unavailable at larger institutions. The low tuition associated with enrollment at SENMC, 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 SENMC 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 SENMC through special articulation programs. Students who are working either full-time or part-time can still attend SENMC 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 postsecondary 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 SENMC. 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 SENMC duplicate those offered at other institutions and may be used for the total credit requirements for baccalaureate graduation. Academic programs at SENMC 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.

SENMC also provides excellent fine arts facilities for instruction and accommodates several entertainment and cultural events annually. Drama students enroll at SENMC 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. Southeast New Mexico College offers 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.

Administration

President

Kevin Beardmore, Ed.D.

Board of Trustees

Tiffany Frintz, (District III) Chair
Sarah J. Bowman, (District IV), Board Secretary
Mark Cage, (District I), Board Member
Ned Elkins, (District V) Board Member
William Murrill, (District II) Board Member

Departments

Academics

Allied Health
Business
Digital Media
Education & Foreign Languages
English, Communication, & Fine Arts
Mathematics
Nursing
Science & Engineering
Social Sciences
Vocational, Energy, and Manufacturing

Campus

Adult Education
Business Office
Community Education
Facilities
Grant Services
Health Clinic
Human Resources
Institutional Research
Marketing & PR Services
Workforce Development

Student Services

Academic Advising
Admissions
Bookstore
Dual-Credit
Financial Aid
Registrar
Student Accessibility Services

Support Services

ICT Help Desk
Learning Assistance Center
Learning Technology Center
Library
Testing Center
Veteran (VA) Services

Inquiries about Southeast New Mexico College and requests for additional information are welcome.

To contact us by mail:

Office of Student Services
Southeast New Mexico College
1500 University Drive
Carlsbad, New Mexico 88220

To contact us by telephone:

Phone: (575) 234-9200
Toll Free: 1 (888) 888-2199
Fax: (575) 885-4951
Website: senmc.edu

Personnel

Campus Executive Administrators

Beardmore, Kevin, President, Ed.D., University of Kentucky

Seitaridou, Effrosyni, Vice President of Academic Affairs, Ph.D., California Institute of Technology

Campos, Diana, Dean of Student Affairs, M.A., New Mexico State University

Harris, Monty, Vice President Workforce Development and Community Engagement, D.C., Sherman College of Chiropractic

Vacant, Vice President of Business and Finance

Administrative Staff

- Barela-Eubank, Corey – Director, Technology Services and Solutions, M.B.A., New Mexico State University
- Bedingfield, Della - Director of the Small Business Development Center, B.S., Kaplan University
- Best, Mickey - Director of Skills, Knowledge and Transfer, Ph.D., Texas Tech University
- Byers, Candace - Director, Health Clinic, DNP, CNP, FNP-C, Frontier Nursing University
- Byers, Lori – Senior Manager, Technology Services and Solutions, Information Systems
- Chandler, Jonathan - Broadcast Media Program Manager, B.A., Eastern New Mexico University
- DeHoyos, Michael, Workforce Trainer, Workforce Training
- Dewey, Amy - Registrar, M.S., Capella University
- Dodson, Andrea – Executive Assistant to the President, President's Office, M.B.A., University of the Southwest
- Dominguez, Erick - STEM Program Manager, HSI Grants Services, B.S., Autonomous University of Chihuahua
- Dominguez, Raymond - Title V Activity Director, HSI Grants Services, M.B.A., TecMilenio University
- Dunaway, Melissa – Director of the Learning Assistant Center, Science and HESI Tutor, M.S.Ed., Jacksonville State University
- Espino, Freddy – Director of Web and Digital Strategies., B.I.C.T., New Mexico State University
- Espinoza, Rocio - HSI Grants Director, Grant Services, M.Ed., Ashford University
- Garcia, Annette – Financial Aid Manager, Financial Aid, A.A., New Mexico State University Carlsbad
- Garcia, Teddi - Dual Credit Advisor, B.S., New Mexico State University
- Ghalichi, Narmin –Coordinator of Institutional Research, Ph.D., University of Minnesota
- Gonzales, Steven - Director of Human Resources, M.A., Webster University
- Gonzalez, Tamara – Business Office Manager, Business Office, A.A., New Mexico State University Carlsbad
- Hernandez Macias, Yadira - Title V Ascender Outreach Coordinator, B.A., Universidad Autonoma De Zacatecas
- Kelly-Bateman, Vivian - Library Specialist, Library, M.Ed., University of Georgia
- King, Sloan - Academic Advisor, B.B.A., University of the Permian Basin
- McCormack, Misty – Director of Adult Education, M.A., New Mexico State University
- Martinez, Gary - Director, Construction & Special Projects, Physical Plant, A.A., New Mexico State University
- Martinez, Syerra - Payroll Coordinator, Business Office
- May, Annemarie - Admissions Advisor, Student Services, B.A.S., Eastern New Mexico University
- Miller, Frankie – Director of the Bookstore, M.A., New Mexico State University
- Moreno, Luz – Director of the Learning Technology Center, M.Ed., New Mexico State University
- Navarrete, Saul - Title III Transfer Pathways: Outreach Coordinator, Grant Services, A.S., New Mexico State University Carlsbad
- Orozco, Krista – Administrative Assistant, Special Executive, VPBF
- Ramirez, Jade – Enrollment Manager, Student Services, M.A., New Mexico State University
- Reyes, Lucy - Human Resources Coordinator, Human Resources
- Roper, Gary – Director of Facilities, Physical Plant
- Ryan, Lisa - Restricted Funds Manager, Business Office, A.A., New Mexico State University Carlsbad
- Silva, Rebecca – Director of Finance, Business Office; M.B.A., New Mexico State University
- Soto, Sky – Director of Marketing & Publications, B.F.A., Western New Mexico University
- Theragood, Merdia – Associate Registrar, B.I.S, New Mexico State University
- Volpi, Karla - Dean of Business and Finance, Ph.D., Grand Canyon University
- Ybarra, Deanna - HR Representative, Human Resources, B.B.A., Northwood University

Full Time Faculty

- Abdaljalil, Talal – Associate Professor, Industrial Maintenance; M.S., New Mexico State University

- Addington, April – Assistant Professor, Mathematics, M.S.E., University of Southern Indiana
- Al-Nouman, Jamil – Professor, Engineering; Ph.D., New Mexico State University
- Al-Sharaabi, Waheeb - Assistant Professor, Computer Science, Ph.D., Universiti Sains Malaysia
- Anchondo, Luis - Assistant Professor, Education, Ph.D., University of Arizona
- Anderson, Raven - Assistant Professor, Business / Student Accessibility Services, Business, Ed.D., Grand Canyon University
- Aryal, Pradip – Professor, Mathematics; Ph.D., New Mexico State University
- Biebelle, Patricia – Professor, English; M.F.A., University of Oregon
- Brian, Jerry - Instructor of Oil & Gas, Workforce Training, B.S., Hardin Simmons University
- 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
- Chavez, Kina - Instructor of Nursing, RN, BSN., Eastern New Mexico State University
- Clements, Alexis - Assistant Professor, Digital Media Technology; M.F.A., Academy of Art University
- Florez, Sandra - Assistant Professor, Allied Health, OTD., MOT., OTR/L., Texas Tech University
- Franco, Yvette - Instructor of Allied Health, Allied Health, B.S., Nursing
- Fry, John – Assistant Professor, English & Reading, Ph.D., The University of Texas at Austin
- Galvan, Laurie - Assistant Professor, Nursing, M.S.N., R.N., Frontier Nursing University
- Girmus, Ronald – Professor, Biology; Ph.D., University of Arizona
- Goldsby, Charity - Instructor Surgical Technology, Allied Health, AOS, Career Technical College
- Hamedi, Jalal – Professor, Psychology/Sociology; Ed.D., Tennessee State University
- Hardin, Dianne – Professor/Director of Nursing; M.S.N., University of New Mexico
- Harris, Monty – Associate Professor, Anatomy & Physiology, Doctor of Chiropractic; Sherman College of Chiropractic
- Hayes, Robyn – Emeritus Professor, Chemistry; M.S., University of Nebraska- Lincoln
- Huang, Yiqun – Assistant Professor, Chemistry, Ph.D., Purdue University
- Johnson, Jessica – Assistant Professor, Nursing, M.S.N., R.N., Eastern New Mexico University
- Jones, Rebecca - Instructor, Nursing., B.S.N., R.N., Eastern New Mexico University
- Kiemle, Scott – College Instructor, Digital Media, BFA, Eastern New Mexico University
- King, Chris – College Instructor Welding, A.A., New Mexico State University Carlsbad
- Linney, Sheena - College Instructor Welding; A.A., New Mexico State University Carlsbad
- McIntosh, David - Associate Professor, History and Anthropology, Ph.D., University of California, Santa Barbara
- Mourhat, Karima - Associate Professor, Criminal Justice, Ph.D., Hassan I University
- Nieto, Arlene - College Instructor Nursing, B.S.N., R.N, University of Texas Arlington
- Quintana, David – College Instructor, Automotive Technology; B.E.E.D., New Mexico State University
- Packer, Debra – Emeritus Professor, Mathematics, M.A., Central Michigan University
- Rayroux, Audrie - College Instructor Nursing; B.S.N., Grand Canyon University
- Strahan, Jon – Associate Professor, Business; M.S., Arizona State University
- Trautner, Robert - Director, Assistant Professor, Fire Science & EMT Programs
- Vacca, John – Professor, Psychology/Education/Law; M.S., J.D., Ph.D., Union Institute & University
- Villa, Samantha – Director/Professor, Library; M.L.S., University of North Texas
- Wang, Mingyue – Assistant Professor, Early Childhood Education; New Mexico State University
- Wiedenmann, Richard – Professor, Biology; M.S., Baylor University
- Wilson, Jonathan - Associate Professor, English, Ph.D., University of Texas at Arlington
- Zhao, Yaxi – Professor, Mathematics; Ph.D., University of Kentucky
- Zuniga, Gina – Professor, Nursing; M.S.N. C. N. E., University of New Mexico

Classified Staff

- Allen, Kordell - Bookstore Assistant, A.A., Southeast New Mexico College
- Allen, Kristal - Achievements Coordinator, President's Office, A.A.S., Southeast New Mexico College
- Baca, Jesus - Facilities Technician, Physical Plant
- Banks, Marty – STEM Student Program Coordinator, Grant Services
- Best, Seth - Technology Support Technician, Technology Services and Solutions
- Blatsvich, Robert – Custodian Supervisor, Physical Plant
- Boyd, Carol - Testing Coordinator, Testing Center, B.A., University of Nebraska-Lincoln
- Cassels, Donald – Electrician, Physical Plant
- Castillo, Carol - Administrative Assistant, Associate, Workforce Development and Community Education, A.A., New Mexico State University, Carlsbad
- Castillo, Robert – Facilities Tech, Physical Plant
- Cisneros, Christopher - Custodial Worker, Sr., Physical Plant, A.A., New Mexico State University Carlsbad
- Cox-Tindol, Judith - Student Development & Activities Advisor, Student Services
- Dunaway, Marcus, Custodial Worker, Sr., Physical Plant
- Enriquez, Joseph - Custodial Worker, Sr., Physical Plant
- Fierro, Juanita - Library Assistant, Library, A.A., New Mexico State University Carlsbad
- Galindo, Rebeca - Title V Program Coordinator, A.A., New Mexico State University Carlsbad
- Juarez-Ortega, Betty –Admissions Coordinator Lead, Student Services
- Kerr, Evelyn - Math Tutor, Learning Assistance Center
- Lara, Gary - Custodial Worker, Sr., Physical Plant
- Lactaoen, Robert – Custodial Worker, Sr., Physical Plant
- Marquez, Blanca - Custodial Worker, Sr., Physical Plant

- Martinez, Rosalinda – Library Specialist, Library, A.A., New Mexico State University
- Mathis, Mandy – Administrative Assistant, Associate, Business Office, A.A., New Mexico State University
- Medina, Kiely - Admissions Administrative Assistant, Student Services
- Montez, Armando – Technology Support Technician, Technology Services and Solutions
- Moralez, Isaac – PC Support, Sr., Information Systems
- Myint, Maung – Data Management Specialist, Grant Services, Ph.D., New Mexico State University
- Navarrete, Raul - Safety/Training Specialist, Workforce Development, OSHA/MSHA Certified, B.A., Northwood University
- Nichols, Jeannie – Student Program Coordinator, Office of Student Financial Aid, VA & Scholarship Services, B.A., New Mexico State University
- Olivas, Antonia - Admissions Coordinator, Student Services, A.A., Southeast New Mexico College
- Orozco, Josie – Custodial Worker Sr., Physical Plant
- Ortega, Ernesto - Multimedia Specialist, Learning Technology Center, A.A., Southeast New Mexico College
- Pennington, Emily - Administrative Assistant, Learning Assistance Center, A.S., New Mexico State University Carlsbad
- Quintana, Maria – Community Education Coordinator, A.A., New Mexico State University Carlsbad
- Roper, Susan – Administrative Assistant, Sr., Business Office, B.B.A., Texas State University
- Saldana, Evelyn – Financial Aid Technician, Associate, Financial Aid Office, A.A., Southeast New Mexico College
- Salazar, Veronica - ESL Instructor, Adult Education
- Sanchez, Annabel - Administrative Assistant, Nursing/Allied Health
- Silva, Stephanie - Accounts Payable Clerk, Business Office, A.A., Southeast New Mexico College
- Strickland, Kaitlin - Administrative Assistant, Health Clinic, Associate Degree, Southeast New Mexico College
- Trujillo, Antonieta – Inventory Control Clerk, Physical Plant
- Williams, Darlene – Custodial Worker Sr., Physical Plant
- Wolf, Brandy - Accounts Receivable Clerk, Business Office, A.A.S., New Mexico State University Carlsbad

Citizen's Professional Advisory Councils

The Citizen's Professional Advisory Councils (CPAC) represent individual community stakeholder groups primarily aligned with workforce and academic instructional areas of the college. CPAC give community stakeholders a chance to communicate the wants and needs of individual organizations as they relate to the college and influence the college's role in the community. Advisory Councils are comprised of local employers and organizational representatives from the business community, public education, law enforcement, research laboratories, government agencies, private industry, media, etc., and involve valued constituencies in SENMC planning for the educational needs of its students. CPAC events occur twice a year and include dinner, breakout sessions, focus groups, etc.

Overview

Catalog Effective Period

Each annual catalog edition is effective Fall Semester through Summer Semester for an eight-year period. 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 of a designated program, 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. SENMC 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 approval by the proper authorities is enacted and will apply to both prospective students and those already enrolled. Once approval is received by the proper authorities, students enrolled in a program that is being withdrawn from the catalog will be provided with a provisional plan (teach-out). This will include, the reason the plan is required and their options to continue their studies in a timely fashion so they can plan for the future.

Academic Credit

The unit of credit is the semester hour, equivalent to one hour instruction and two hours practice per week. Semester and cumulative grade point average are based on the total quality points earned divided by the credit value of computable grades. The academic year is composed of three full terms: 16 week Fall and Spring semesters and a 10 week Summer session.

The Carnegie unit is used to measure traditional instructional contact time in post-secondary education. In this model, one credit hour is equivalent to 750 minutes of instructional time. By this ratio a standard three credit course requires 2250 minutes of instructional time to meet North Central Association (NCA) Higher Learning Commission (HLC) accreditation requirement.

At least an equivalent amount of work, is required for other academic activities as established by the institution, including laboratory work, internships, practicum, studio work, and other academic work leading to the award of Credit Hours.

Laboratory work, internships, practicum, studio work, and other academic work leading to the award of credit hours require at least an equivalent amount of work as in paragraph one of this definition. It is recommended for laboratory courses or courses that contain laboratories, 2P is equal to 100 minutes of laboratory time for a 15 week term (1P is equal to 50 minutes). For example, a course consisting of 3-cr. (2+2P), is recommended to meet at least 100 minutes of lecture and 100 minutes of laboratory per week for 15 weeks.

Numbering of Courses

100– 299 and 1000- 2999 lower division level Courses with a suffix of G meet New Mexico General Education requirements. Effective Fall 2020, upon completion of the total credits required by New Mexico Administrative Code, a transcript comment will indicate the student has fulfilled that obligation. Courses with a suffix of H indicate Honors. Courses with a suffix of N do not count in credits earned toward graduation.

Academic Misconduct/Grievances

Student Academic Code of Conduct

The Student Academic Code of Conduct, applicable to all students, provides procedures for the review and resolution of alleged or suspected academic misconduct within a reasonably prompt time frame. The Student Academic Code of Conduct is located in the Student Handbook and the Faculty Handbook.

While it is important to refer to the detailed governing rules in the Student Academic Code of Conduct, the process is summarized as follows: the course instructor raises an allegation of student academic misconduct to the campus-wide Academic Conduct Officer for processing. The accused student is provided notice of the allegation and has the right to participate during the fact finding process.

The Academic Conduct Officer distinguishes between Level I Sanctions and Level II sanctions, depending upon the severity of the offense and other factors. The Level I sanctions may include a formal warning, and a reduced grade. Level II sanctions may include an academic probation, and a notation of academic misconduct on the student's official transcript.

The student may contest the investigative findings or sanction before a Hearing Panel. Depending upon the level of sanction, either party to the matter has the right to a final appeal to the panel or the VPAA.

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
Student Academic Code Conduct

Academic Programs

SENMC offers undergraduate 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 an undergraduate degree and is awarded to graduates of prescribed lower division (first- and second-year coursework for a 4-year degree) 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. SENMC 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.

Requirements Specific to Associate Degrees or Certificates

See General Degree/Certificate Requirements section of the catalog.

Academic Standing/Probation

Academic Standing

When a student does not maintain adequate academic standing, he/she/ they are 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.

Academic Warning

Issued only once, the first time a student's cumulative GPA falls below a 2.0 while in good academic standing. The Registrar's 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:
1. The student cannot enroll in more than 15 hours of coursework during the semester.
2. 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 department chair or Vice President of Academic Affairs (VPAA).
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:
• The student may be required to take at least one repeat course to try to improve their GPA.

• Except for the special study skills/time management course, the student's coursework may be restricted to their major.
• 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 department chair or VPAA 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.

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:
1. 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 department chair 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 department chair or VPAA that place further stipulations on Academic Probation I. The department chair or VPAA may place the student on Academic Probation II or Academic Suspension should the student not adhere to the stipulations of the contract.
3. Students on Academic Probation receiving educational benefits from the Veterans' Administration must obtain counseling from the Military & Veterans Programs Office.
4. 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 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.

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

The department chair or VPAA 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 college 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;
2. 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 Include in GPA Option does not change academic status until subsequent grades are earned;
4. 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 SENMC 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 SENMC under Academic Warning, Probation I or Probation II status while under Academic Suspension when satisfactory progress has been demonstrated at another college or college (see Readmission- Degree Seeking). Credits earned at another college while under Academic Suspension from SENMC or another college will be accepted at SENMC only after the student demonstrates satisfactory progress over a period of two semesters after being re-admitted or admitted to SENMC. Acceptance of transfer credits that count toward degree requirements is still governed by the rules established by the student's respective department.

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. 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 college and the probation or suspension status applies to all subsequent enrollments until the cumulative GPA is 2.0 or higher.

Common Course Numbering Crosswalk

CURRENT COURSE	PAST COURSE
Accounting	
ACCT1125 Supplemental Instruction to Financial Accounting	ACCT 101
ACCT1150 QuickBooks	BOT 205/OATS 205/OECS 200
ACCT1210 Income Taxation	BMGT 150
ACCT1410 Personal Tax Preparation	BOT 244/OATS 244
ACCT2110 Principles of Accounting I (Financial)	ACCT 221
ACCT2110X Principles of Accounting IA (Financial)	BOT 120/OATS 120
ACCT2110Y Principles of Accounting IB (Financial)	BOT 121/OATS 121
ACCT2115 Survey of Accounting	ACCT 200
ACCT2120 Principles of Accounting II (Managerial)	ACCT 222
ACCT2170 Payroll Accounting	BOT 140/OATS 140
ACCT2210 Spreadsheet Accounting	BOT 206/OATS 206
ACCT2320 Introduction to Tax I (Individual)	BOT 240/OATS 240
ACCT2520 Introduction to Auditing	BOT 241/OATS 241
ACCT2999 Capstone in Accounting	BOT 260/OATS 260
Agricultural Economics	
AEEC1110 Introduction to Agricultural Economics and Business	AG E 100
AEEC1120 Careers in Food and Agribusiness	AG E 101
AEEC2110 Principles of Food and Agribusiness Management	AG E 236
AEEC2120 Introduction to Food and Agribusiness Accounting	AG E 260
AEEC2130G Survey of Food and Agricultural Issues	AG E 210G
AEEC2140 Technology and Communication for Business Management	AG E 250
AEEC2996 Topics in Agricultural Economics	AG E 200
Agricultural and Extension Education	
AXED1110 Introduction to Agricultural, Extension, and Technology Education	AXED 100
AXED1130 Techniques in Agricultural Mechanization	AXED 105
AXED2110 Metal Fabrication	AXED 205
AXED2130 Early Field-Based Experience	AXED 230
AXED 2140	AXED 232
AXED2996 Topics in Agricultural and Extension Education	AXED 200
Agriculture Communications	
ACOM1110 Introduction to Agricultural Communication	AXED 1120/AXED 240
ACOM1130G Effective Leadership and Communication in Agriculture	AXED 2120G/AXED 201G
Agronomy	
AGRO1110G Introduction to Plant Science (Lecture & Laboratory)	AGRO 100G
AGRO2160 Plant Propagation	AGRO 250
AGRO2996 Topics in Agronomy	AGRO 200
Animal Science	
ANSC1110 Animal Science Careers	ANSC 220
ANSC1120 Introduction to Animal Science	ANSC 100
ANSC1120H Introduction to Animal Science Honors	ANSC 100 H
ANSC1120L Introduction to Animal Science Laboratory	ANSC 100 L
ANSC1130 Western Equitation I	ANSC 190
ANSC1140 Introduction to Dairy Science	ANSC 205
ANSC1160 Introductory Horse Science	ANSC 103
ANSC1170 Introduction to Animal Metabolism	ANSC 261
ANSC1180 Companion Animal Metabolism	ANSC 112
ANSC2120 Equine Management	ANSC 288
ANSC2130 Western Equitation II	ANSC 290
ANSC2140 Introduction to Companion Animal Science	ANSC 285
ANSC2150 Management of Equine Operations	ANSC 289
ANSC2310 Introduction to Meat Science	ANSC 262

ANSC2330 Animal Production	ANSC 200
ANSC2340 Genetics in Animal Science	ANSC 201
ANSC2996 Topics in Animal Science	ANSC 250
Anthropology	
ANTH1115G Introduction to Anthropology	ANTH 201G
ANTH1135G Introduction to Biological Anthropology	ANTH 130G
ANTH1135L Introduction to Biological Anthropology Laboratory	ANTH 130GL
ANTH1136 Introduction to Historic Preservation	ANTH 118
ANTH1137G Human Ancestors	ANTH 120G
ANTH1140G Introduction to Cultural Anthropology	ANTH 125G
ANTH1160G World Archaeology	ANTH 202G
ANTH2140G Indigenous Peoples of North America	ANTH 115
ANTH2150 Indigenous Peoples of the American Southwest	ANTH 116
ANTH2996 Topics in Anthropology	ANTH 297
Architecture	
ARCH1105 Orientation and Mentoring in Architecture-Construction Engineering (ACE)	ARCT 150
ARCH1110 Architectural Drawing	ARCT 104
ARCH1112 Global Issues and Sustainability	ARCT 124
ARCH1114 Introduction to Architectural Design	ARCT 154
ARCH1120 Introduction to Architecture	ARCT 101
ARCH1121 Computers in Architecture	ARCT 170
ARCH1122 Architectural Design Studio I	ARCT 204
ARCH1135 Technical Documentation with Auto CAD I	C E 109
ARCH1220 Architectural World History I	ARCT 111
ARCH2111 Architectural Delineation I	ARCT 210
ARCH2113 Sustainable Design in Architecture	ARCT 224
ARCH2114 Construction Documents	ARCT 250
ARCH2115 Architecture Design Studio II	ARCT 254
ARCH2116 Architectural Delineation I	ARCT 260
ARCH2122 LEED Accreditation Exam Prep	ARCT 274
ARCH2124 Professional Development and Leadership	ARCT 295
ARCH2220 Architectural World History II	ARCT 211
ARCH2994 Portfolio in Architecture	ARCT 264
ARCH2995 Cooperative Education in Architecture	ARCT 291
ARCH2996 Topics in Architecture	ARCT 290
Art History	
ARTH1115G Orientation in Art	ART 101G
ARTH2110G History of Art I	ART 295G
ARTH2120G History of Art II	ART 296G
ARTH2136 Writing in Art	ARTS 2671
Art Studio	
ARTS1121 Foundations in Art	ART 125
ARTS1145G Visual Concepts	ART 110G
ARTS1240 Design I	ART 155
ARTS1250 Design II	ART 156
ARTS1310 Introduction to Ceramics	ART 275
ARTS1320 Ceramics I	ART 276
ARTS1410 Introduction to Photography	ART 270
ARTS1520 Digital Media I	ART 161/ART 272
ARTS1610 Drawing I	ART 150
ARTS1610 Drawing I	ART 250
ARTS1630 Painting I	ART 260
ARTS1710 Introduction to Printmaking	ART 280

ARTS1711 Computer-Based Illustration	ART 160
ARTS1712 Digital Graphics	ART 163
ARTS1713 Web Page Design	ART 165
ARTS1810 Jewelry and Small Metal Construction I	ART 285
ARTS2010 Portfolio Development	ART 267
ARTS2355 Stained Glass	ART 286
ARTS2410 Black & White Photography	OEPT 100
ARTS2430 Photographic Portraiture	OEPT 155
ARTS2431 Introduction to Graphic Design	ART 255
ARTS2440 Photo Finishing & Presentation	OEPT 120
ARTS2610 Drawing II	ART 151
ARTS2611 Advanced Computer-Base Illustration	ART 269
ARTS2616 Aspects of Drawing	ART 252
ARTS2630 Painting II	ART 261
ARTS2635 Painting III	ART 262
ARTS2839 Introduction to Sculpture	ART 265
ARTS2993 Workshop in Art Studio	ART 208
ARTS2996 Topics in Art Studio	ART 294
Astronomy	
ASTR1115G Introduction to Astronomy (Lec+Laboratory)	ASTR 110G
ASTR 1116	ASTR 199
ASTR1120G The Planets	ASTR 105G
Bilingual Education	
BLED1110 Introduction with Internship in Bilingual Education/ESL	EDUC 103
BLED2110 Introduction to Bilingual and ESL Education	EDUC 204
Biology	
BIOL1120G Human Biology	BIOL 101G
BIOL1120L Human Biology Laboratory	BIOL 101GL
BIOL1130G Introductory Anatomy & Physiology (non majors)	BIOL 154
BIOL1190G Contemporary Problems in Biology	BIOL 110G
BIOL1996 Topics in Biology	BIOL 150
BIOL2110G Principles of Biology: Cellular and Molecular Biology	BIOL 211G
BIOL2110L Principles of Biology: Cellular and Molecular Laboratory	BIOL 211GL
BIOL2210C Human Anatomy and Physiology I Lecture & Laboratory	BIOL 225
BIOL2221 Human Physiology	BIOL 254
BIOL2225C Human Anatomy and Physiology II Lecture and Laboratory	BIOL 226
BIOL2310 Microbiology	BIOL 221
BIOL2310L Microbiology Laboratory	BIOL 221 L
BIOL2320 Public Health Microbiology	BIOL 219
BIOL2505 Pathophysiology	BIOL 227
BIOL2511 Pathophysiology I	BIOL 262
BIOL2512 Pathophysiology II	BIOL 263
BIOL2610G Principles of Biology: Biodiversity, Ecology, and Evolution	BIOL 111G
BIOL2610L Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	BIOL 111GL
BIOL2996 Topics in Biology	BIOL 250
Business Administration	
BUSA1110 Introduction to Business	BMGT 110
BUSA1115 Business English I	BOT 105/OATS 105
BUSA1180 Business Math	BOT 106/BMGT 216/
BUSA1210 Records Management	BOT 110/OATS 110
BUSA1320 Principles of Supervision	BMGT 140
BUSA2120 Introduction to Global Business	BMGT 282/BUSA 111
BUSA2175 Personal Development	BOT 239/OATS 239

BUSA2220 Human Resource Management	BMGT 280
BUSA2230G Human Relations in Business	BGMT 240
BUSA2250 Work Readiness	BMGT 201
BUSA2996 Topics in Business Administration	BMGT 255
BUSA2999 Capstone in Business Managment	BMGT 290
Business Computer Systems	
BCIS1110 Fundamentals of Information Literacy and Systems	BCIS 110/C S 110
BCIS1160 Windows	OECS 207
BCIS1220 Introduction to MS Word	OATS 213/BOT 213
BCIS1230 Introduction to MS PowerPoint	OATS 217/OECS 110/BOT 217
BCIS2130 Web Design	E T 280
BCIS2212 MS Access	OECS 220
BCIS2215 MS EXCEL	OATS 215/BOT 215
BCIS2221 MS Word II	OATS 214/BOT 214
Business Finance	
BFIN1210 Principles of Banking	BMGT 112
BFIN2110 Introduction to Finance	FIN 206/FIN 210
BFIN2140 Personal Finance	BMGT 232
Business Law	
BLAW2110 Business Law I	BLAW 230/BMGT 231
Chemistry	
CHEM1111 Basic Chemistry	CHEM 100
CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors)	CHEM 110G
CHEM1121 General Supplemental Instruction I	CHEM 101
CHEM1122 General Supplemental Instruction II	CHEM 102
CHEM1123 Principles of Supplemental Instruction III	CHEM 103
CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors	CHEM 111G
CHEM1216 General Chemistry	CHEM 115
CHEM1225G General Chemistry II Lecture and Laboratory for STEM Majors	CHEM 112G
CHEM1226 General Chemistry II	CHEM 116
CHEM2111 Explorations in Chemistry	CHEM 242
CHEM2115 Survey of Organic Chemistry and Laboratory	CHEM 211
CHEM2120 Integrated Organic Chemistry and Biochemistry	CHEM 210
CHEM2226 General Chemistry III	CHEM 217
CHEM2991 Directed Research in Chemistry	CHEM 241
CHEM2996 Topics in Chemistry	CHEM 251
Chinese	
CHIN1110 Mandarin Chinese I	CHIN 111
CHIN1120 Mandarin Chinese II	CHIN 112
CHIN2110 Mandarin Chinese III	CHIN 211
CHIN2120 Mandarin Chinese IV	CHIN 212
Clothing Textiles Fashion Merchandise Design	
CTFM 1110	CTFM 178
CTFM 2120	CTFM 270
CTFM 2130	CTFM 273
CTFM 2990	CTFM 202
Communication	
COMM1115G Introduction to Communication	COMM 265G
COMM1130G Public Speaking	COMM 253G
COMM2110 Communication Theory	COMM 285
COMM2111 Introduction to the Communication Major	COMM 250
COMM2996 Topics in Communication	COMM 291
COMM2997 Independent Study in Communication	COMM 290

Community Health/Social Services	
CHSS 1110	CHSS 101
CHSS 2510	CHSS 299
CHSS 2511	CHSS 295
Counseling & Educational Psychology	
CEPY1120G Human Growth and Behavior	C EP 110G
CEPY1150 Career Excellence	C EP 199
CEPY2110 Learning in the Classroom	C EP 210
CEPY2120 The Preschool Child	C EP 215
CEPY2130 Adolescence - School Setting	C EP 240
CEPY2140 Explorations of Counseling & Community Psychology	C EP 298
CEPY2140H Explorations of Counseling & Community Psychology (Honors)	C EP 298 H
Criminal Justice	
CJUS1110G Introduction to Criminal Justice	C J 101G
CJUS1120 Criminal Law	C J 205
CJUS1996 Topics in Criminal Justice	C J 199
CJUS2120 Criminal Courts and Procedure	C J 250
CJUS2140 Criminal Investigations	C J 221
CJUS2150 Corrections System	C J 230
CJUS2160 Field Experience in Criminal Justice	C J 293
CJUS2220 The American Law Enforcement System	C J 210
Computer Information Systems Technology	
CIST1110 Introduction to Operating Systems	OECS 125 and E T 155
CIST1115 Principles of Computer Science Information Systems	C S 171G
CIST1217 Overview of Web Technologies	OECS 185 and 227
CIST1261 JavaScript Web Programming	
CIST1263 PHP Web Programming	
CIST1411 Introduction to Networks	OECS 261
CIST1412 Network Device Configuration	OECS 262
CIST1413 Network Administration Concepts	OECS 264
CIST1680 Linux Essentials	OECS 128
CIST1996 Special Topics in Computer Information System Technology	OECS 155
CIST2210 Introduction to SQL (Structured Query Language)	OECS 235
CIST2215 iPhone Programming with Swift	OECS 145
CIST2251 Python Programming II	C S 154
CIST2620 Windows Server Administration	OECS 237
CIST2811 Foundations of Security	OECS 269
CIST2816 Penetration Testing	
CIST2860 Digital Forensics and Incident Response	
CIST2881 Cybersecurity Fundamentals	
CIST2887 Ethical Hacking	CSEC 283
CIST2999 Computer Technology Capstone	OECS 290
Computer Science	
CSCI1220 Computer Programming Fundamentals: Python	C S 153
CSCI1240 C++ Programming I	C S 151 and OECS 192
CSCI1260 Computer Programming Fundamentals Java I	OECS 195 and C S 152
CSCI2210 Object-Oriented Programming	C S 271
CSCI2220 Introduction to Data Structures and Algorithms	C S 272
CSCI2230 Assembly Language and Machine Organization	C S 273
CSCI2260 Computer Programming Fundamentals: Java 2	C S 172
CSCI2310 Discrete Mathematics for Computer Science	C S 278
CSCI2996 Topics in Computer Science	C S 209
Construction	

CNST1110 General Carpentry or Building Trades I	BCT 100
CNST1120 Construction Drawings	BCT 110
CNST1170 Construction Methods I	BCT 104
CNST1270 Construction Methods II	BCT 105
CNST2995 Construction Co-op	BCT 221
CNST2996 Topics in Constructions	BCT 255
CNST2997 Special Problems in Building Technology	BCT 290
Dance	
DANC1110G Dance Appreciation	DANC 101G
DANC1130 Ballet I	DANC 123
DANC1131 Introduction to Ballroom Dance	DANC 125
DANC1135 Argentine Tango	DANC 109
DANC1140 Flamenco I	DANC 129
DANC1150 Modern Dance I	DANC 126
DANC 1155	DANC 102
DANC1185 Introduction to Country Western Dance	DANC 121
DANC1220 Introduction to Latin Social Dance	DANC 122
DANC1235 Introduction to West Coast Swing Dance	DANC 118
DANC 2114	DANC 204
DANC2130 Ballet II	DANC 223
DANC2130L Ballet II Lab	DANC 223 L
DANC 2140	DANC 229
DANC 2140L	DANC 229 L
DANC 2142	DANC 210
DANC 2142L	DANC 210 L
DANC2150 Modern Dance II	DANC 226
DANC 2150L	DANC 226 L
DANC 2155	DANC 207
DANC2157 Hip-Hop Dance	DANC 212
DANC 2161	DANC 227
DANC 2250	DANC 205
DANC 2251	DANC 206
DANC 2265	DANC 289
DANC2270 Dance Improvisation I	DANC 280
DANC2310 Bronze American Rhythm	DANC 222
DANC2311 Bronze American Smooth	DANC 225
DANC2320 Bronze International Latin	DANC 232
DANC2321 Bronze International Standard	DANC 235
Early Childhood Education	
ECED1110 Child Growth, Development, and Learning	ECED 115
ECED1115 Health, Safety, and Nutrition	ECED 125
ECED1120 Guiding Young Children	ECED 265
ECED1125 Assessment of Children and Evaluation of Programs	ECED 255
ECED1130 Family and Community Collaboration	ECED 135
ECED2110 Professionalism	ECED 245
ECED2115 Introduction into Language, Literacy, and Reading	ECED 235
ECED2120 Curriculum Development through Play Birth through Age 4 (PreK)	ECED 215
ECED2121 Curriculum Development through Play Birth through Age 4 (PreK) Practicum	ECED 220
ECED2130 Curriculum Development and Implementation Age 3 (PreK) through Grade 3	ECED 225
ECED2131 Curriculum Dvlpmnt & Implementation Age 3 (PreK) through Grade 3 Practicum	ECED 230
ECED2140 Effective Program Development for Diverse Learners and their Families	ECED 275
ECED2141 Effective Program Development for Diverse Learners and their Families Pract	ECED 276
ECED2215 Program Management	ECED 270

ECED2280 Professional Relationships	ECED 280
ECED2281 Professional Relationships Practicum	ECED 281
Economics	
ECON1110G Survey of Economics	ECON 201G
ECON2110G Macroeconomic Principles	ECON 251G
ECON2110H Macroeconomic Principles (Honors)	ECON 251GH
ECON2120G Microeconomic Principles	ECON 252G
ECON2120H Microeconomic Principles (Honors)	ECON 252GH
Education	
EDUC1110 Freshman Orientation	EDUC 101
EDUC1120 Introduction to Education	EDUC 250
EDUC1140 Math for Paraprofessionals	EDUC 150
EDUC1150 Math for Paraprofessionals II	EDUC 151
EDUC1185 Introduction to Secondary Education and Youth	EDUC 281
EDUC1995 Cooperative Education in Education	EDUC 181
EDUC1996 Topics in Education	EDUC 195
EDUC1998 Internship in Education	EDUC 102
EDUC2710 Pre-Teacher Preparation	EDUC 219
EDUC2998 Field Experience in Education	EDUC 202
Educational Leadership Administration	
ELAD 2210	ELA 255
ELAD2340 Multicultural Leadership in Education	ELA 215
ELAD2996 Topics in Education	ELA 298
Educational Technology	
EDLT2110 Integrating Technology with Teaching	EDLT 268
English	
ENGL 1105M	SPCD 1110
ENGL1110G Composition I	ENGL 111G
ENGL 1110H	ENGL 111GH
ENGL 1110M	ENGL 111 M
ENGL1120 Composition II	ENGL 112
ENGL1410G Introduction to Literature	ENGL 115G
ENGL2130G Advanced Composition	ENGL 311G
ENGL2210G Professional & Technical Communication	ENGL 203G/ENGL 218G
ENGL2215G Advanced Technical and Professional Communication	ENGL 318G
ENGL2221G Writing in the Humanities and Social Science	ENGL 211G
ENGL2280 History of Argument	ENGL 263
ENGL2310G Introduction to Creative Writing	ENGL 220G
ENGL2381 Script Development and Storyboarding	ENGL 232
ENGL2382 Narrative: Principles of Story Across the Media	ENGL 235
ENGL2520G Film as Literature	ENGL 116G
ENGL2521 The Bible as Literature	ENGL 243
ENGL2610 American Literature I	ENGL 251
ENGL2620 American Literature II	ENGL 252
ENGL2630 British Literature I	ENGL 271
ENGL2640 British Literature II	ENGL 272
ENGL2650G World Literature I	ENGL 244G
ENGL2996 Topics in English	ENGL 299
Electrical	
ELTR1110 Basic Electricity and Controls	ELT 105/HVAC 102/OEET 110
ELTR2996 Topics in Electricity	E T 200
Electrical	
ENTR2110 Small Business Management	BMGT 277

Environmental Science	
ENVS1110G Environmental Science I (L)	E S 110G
ENVS2111 Environmental Engineering and Science	C E 256/E S 256
ENVS2111L Environmental Engineering and Science Laboratory	C E 256L/E S 256 L
Film & Digital Media Arts	
FDMA1110 Film History	CMT 170
FDMA1120 Desktop Publishing I	CMT 140
FDMA1210 Digital Video Production I	CMT 190
FDMA1220 Introduction to Digital Video Editing	CMI 216
FDMA1220 Introduction to Digital Video Editing	CMT 195
FDMA1260 Introduction to Digital Media	CMT 108
FDMA1260 Introduction to Digital Media	CMT 120
FDMA1360 Web Design I	CMT 130
FDMA1410 Audio Production I	CMT 247
FDMA1415 Principles of Sound	CMT 206
FDMA1510 Introduction to 3D Animation	CMI 260
FDMA1510 Introduction to 3D Animation	CMT 135
FDMA1515 Introduction to Digital Image Editing - Photoshop	CMT 145
FDMA1531 Evolution of Electronic Games	CMT 151
FDMA1535 Introduction to Illustrator	CMT 142
FDMA1536 Advanced Computer Illustration	CMT 242
FDMA1545 Introduction to Photography & Digital Imaging	CMT 115
FDMA1555 Introduction to the Creative Media Industry	CMI 100
FDMA1630 Principles of Design	CMT 180
FDMA1710 2D Animation	CMT 150
FDMA1715 2-D Compositing & FX	CMI 245
FDMA1720 3D Character Design	CMT 175
FDMA1996 Topics in Film and Digital Media Arts	CMT 155
FDMA2111 Environmental Scene Design	CMT 220
FDMA2120 Film Crew I/Introduction to Film and Media Workflow	CMT 126
FDMA2125 Film Crew II	CMT 156
FDMA2150 Desktop Publishing II	CMT 240
FDMA2210 Digital Video Production II	CMT 210
FDMA2241 Advanced Camera Techniques	CMT 258
FDMA2285 Digital Video Production and Editing II	CMT 215
FDMA2287 Digital Design Studio	CMT 223
FDMA2310 History of Cinema I	CMI 228
FDMA2311 History of Animation	CMI 231
FDMA2311 History of Animation	CMT 253
FDMA2312 History of Media Design	CMT 254
FDMA2325 Advanced Photoshop	CMT 245
FDMA2326 Digital Photography and Imaging II	CMT 216
FDMA2360 Web Design II	CMT 230
FDMA2365 Web Design for Small Business	CMT 235
FDMA2370 Advanced Web Techniques	CMT 275
FDMA2381 Storyboarding	CMI 232
FDMA2382 Principles of Story Across the Media	CMI 235
FDMA2410 Audio Production II	CMT 236
FDMA2510 Introduction to Sound Design for Film	CMI 200
FDMA2520 Introduction to Cinematography	CMI 205
FDMA2520 Introduction to Cinematography	CMT 205
FDMA2530 Introduction to 3D Modeling	CMI 280
FDMA2530 Introduction to 3D Modeling	CMT 160

FDMA2535 Digital Illustration	CMI 240
FDMA2570 Creative Media Studio	CMT 292
FDMA2710 Beginning 2-D Animation	CMI 250
FDMA2715 Special Effects	CMT 260
FDMA2720 3D Animation	CMI 290
FDMA2725 Rigging for 3D Animation	CMI 270
FDMA2730 Advanced Character Animation	CMT 227
FDMA2735 Advanced 3D Animation Workshop A	CMT 290
FDMA2740 Advanced 3D Animation Workshop B	CMT 291
FDMA2745 Light, Shade, Render	CMI 233
FDMA2750 Digital Sculpting	CMT 229
FDMA2755 Drawing for Animation	CMI 220
FDMA2770 Critical Game Studies	CMT 200
FDMA2775 Game Tools and Techniques	CMT 252
FDMA2785 Level Design Concepts	CMT 228
FDMA2993 Workshop in Film & Digital Media Arts	CMT 276
FDMA2994 Portfolio in Film & Digital Media Arts	CMT 295
FDMA2995 Cooperative Education in Film & Digital Media Arts	CMT 226
FDMA2996 Topics in Film & Digital Media	CMT 255
FDMA2997 Independent Study in Film & Digital Media Arts	CMT 298
FDMA2998 Field Experience in Film & Digital Media Arts	CMT 221
First Year Experience	
FYEX1110 First-Year Seminar	COLL 101
FYEX1112 The Freshman Year Experience	UNIV 150
FYEX1116 Managing Your Money	COLL 103
FYEX1117 Financial Literacy Money Matters	UNIV 114
FYEX1131 Personal Learning Skills I	UNIV 110
FYEX1132 Academic and Personal Effectiveness	UNIV 112
FYEX1133 Academic Reading and Study Skills	COLL 108
FYEX1134 Speed Reading	UNIV 113
FYEX1140 Career Exploration	COLL 120
FYEX1160 Tutorial	UNIV 101
FYEX1170 Gospel Choir	UNIV 161
FYEX1995 Cooperative Education in First Year Experience	UNIV 116
FYEX1996 Topics in First Year Experience	COLL 155
FYEX2111 Critical Thinking Skills	COLL 201
FYEX 2994	COLL 185
Fish, Wildlife, Conservation Ecology	
FWCE 1110G	FWCE 110G
FWCE 1120	FWCE 109
FWCE 2110	FWCE 255
Food Science & Technology	
FSTE1120 ACES in the Hole Foods I	FSTE 175
FSTE2110G Food Science I	FSTE 263G
FSTE2120 ACES in the Hole Foods II	FSTE 275
FSTE2130G Survey of Food and Agricultural Issues	FSTE 210G
FSTE2996 Topics in Food Science and Technology	FSTE 200
French	
FREN1110 French I	FREN 111
FREN1120 French II	FREN 112
FREN2110 French III	FREN 211
FREN2120G French IV	FREN 212
Geography	

GEOG1110G Physical Geography	GEOG 111G
GEOG1120G World Regional Geography	GEOG 112G
GEOG1130G Human Geography	GEOG 120G
GEOG2130 Map Use and Analysis	GEOG 281
GEOG2996 Topics in Geography	GEOG 291
Geology	
GEOL1110G Physical Geology	GEOL 111G
GEOL2130 Introduction to Meteorology	GEOG 257
GEOL2996 Topics in Geology	GEOL 220
German	
GRMN 1110	GER 111
GRMN 1120	GER 112
GRMN 2110	GER 211
GRMN 2120	GER 212
History	
HIST1105G Making History	HIST 110G
HIST1110G United States History I	HIST 201G
HIST1120G United States History II	HIST 202G
HIST1130G World History I	HIST 111G
HIST1140G World History II	HIST 112G
HIST1150G Western Civilization I	HIST 101G
HIST1160G Western Civilization II	HIST 102G
HIST2110 Survey of New Mexico History	HIST 261
HIST2245G Islamic Civilizations to 1800	HIST 221G
HIST2246G Islamic Civilizations since 1800	HIST 222G
HIST2250G East Asia to 1600	HIST 211G
HIST2251G East Asia since 1600	HIST 212G
HIST2996 Topics in History	HIST 269
Honors	
HNRS1110 Journeys of Discovery	HON 115
HNRS2110G The Present in the Past: Contemporary Issues and their Historical Roots	HON 210
HNRS2111 Successful Fellowship Writing	HON 214
HNRS2114G Music in Time and Space	HON 208G
HNRS2115G Encounters with Art	HON 216G
HNRS2116G Earth, Time and Life	HON 219G
HNRS2117G The World of the Renaissance: Discovering the Modern	HON 220G
HNRS2120G Foundations of Western Culture	HON 222G
HNRS2140G Plato and the Discovery of Philosophy	HON 227G
HNRS2141G Bamboo and Silk: The Fabric of Chinese Literature	HON 230G
HNRS 2150G	HON 228G
HNRS2160G New Testament as Literature	HON 229G
HNRS2161G Window of Humanity	HON 235G
HNRS2170G The Human Mind	HON 232G
HNRS2171G The Worlds of Arthur	HON 234G
HNRS2172G Archaeology: Search for the Past	HON 237G
HNRS2173G Medieval Understandings: Literature and Culture in the Middle Ages	HON 239G
HNRS 2174G	HON 249G
HNRS2175G Principles of Human Communication Honors	HON 265G
HNRS2178G Theatre: Beginnings to Broadway	HON 270G
HNRS2180G Citizen and State Great Political Issues	HON 248G
HNRS2185G Democracies, Despots and Daily Life	HON 211
HNRS2190G Claiming a Multiracial Past	HON 242G
HNRS2996 Topics in Honors	HON 221

Horticulture	
HORT 1115G	HORT 100G
HORT2110 Ornamental Plants I	HORT 210
HORT2120 Ornamental Plants II	HORT 211
HORT2130 Floral Quality Evaluation and Design	HORT 240
HORT2160 Plant Propagation	HORT 250
HORT2990 Practicum in Horticulture	HORT 241
HORT2996 Topics in Horticulture	HORT 200
Hotel/Restaurant/Tourism Management	
HRTM1120G Introduction to Tourism	HRTM 201
HRTM1130 Introduction to Hospitality Management	HRTM 221
HRTM2110 Safety, Sanitation and Health in the Hospitality Industry	HRTM 231
HRTM2120 Food Production and Service Fundamentals	HRTM 263
HRTM2130 Hotel Operations I	HRTM 235
HRTM2996 Topics in Hotel, Restaurant, & Tourism Management	HRTM 200
Human Services	
HMSV2110 Case Management	S WK 253
Linguistics	
LING2110G Introduction to the Study of Language and Linguistics	LING 200G
Management	
MGMT2110 Principles of Management	MGT 201
MGMT2998 Internship	BMGT 221
Marketing	
MKTG2110 Principles of Marketing	BMGT 210
MKTG2110 Principles of Marketing	MKTG 203
Mathematics	
MATH1130G Survey of Mathematics	MATH 210G
MATH1134 Fundamentals of Elementary Mathematics I	MATH 111
MATH1215 Intermediate Algebra	MATH 120
MATH1217 General Supplemental Instruction I	MATH 101
MATH1220G College Algebra	MATH 121G
MATH1221 General Supplemental Instruction II	MATH 102
MATH1250G Trigonometry & Pre-Calculus	MATH 190G
MATH1350G Introduction to Statistics	A ST 251G
MATH1350G Introduction to Statistics	STAT 251G
MATH1430G Applications of Calculus I	MATH 142G
MATH1435 Applications of Calculus I	MATH 235
MATH1440 Applications of Calculus II	MATH 236
MATH1511G Calculus and Analytic Geometry I	MATH 191G
MATH1521G Calculus and Analytic Geometry II	MATH 192G
MATH1521H Calculus and Analytic Geometry II Honors	MATH 192GH
MATH1531 Introduction to Higher Mathematics	MATH 279
MATH1996 Topics in Mathematics	MATH 107
MATH2134G Fundamentals of Elementary Math II	MATH 112G
MATH2234 Fundamentals of Elementary Mathematics III	MATH 215
MATH2350G Statistical Methods	STAT 271G
MATH2415 Introduction to Linear Algebra	MATH 280
MATH2530G Calculus III	MATH 291G
MATH2992 Directed Study in Mathematics	MATH 200
Music	
MUSC1110G Music Appreciation: Jazz	MUS 201G
MUSC1130G Music Appreciation: Western Music	MUS 101G
MUSC1210 Fundamentals of Music for Non-majors	MUS 102

MUSC1310 Recital Attendance	MUS 121
MUSC1410 Introduction to Music Education	MUS 250
MUSC1440 Class Voice I	MUS 141
MUSC1450 Ear Training I	MUS 103
MUSC1451 Ear Training II	MUS 104
MUSC1460 Music Theory I	MUS 105
MUSC1461 Music Theory II	MUS 106
MUSC1470 Functional Piano I	MUS 145
MUSC1471 Functional Piano II	MUS 146
MUSC1472 Functional Piano III	MUS 147
MUSC 1992	MUS 130
MUSC2110 Chamber Ensemble	MUS 164
MUSC2110 Chamber Ensemble	MUS 171
MUSC2120 Major Ensemble	MUS 151
MUSC2120 Major Ensemble	MUS 160
MUSC2120 Major Ensemble	MUS 161
MUSC2120 Major Ensemble	MUS 162
MUSC2120 Major Ensemble	MUS 170
MUSC2120 Major Ensemble	MUS 172
MUSC2120 Major Ensemble	MUS 180
MUSC2120 Major Ensemble	MUS 181
MUSC2130 Jazz Ensemble	MUS 163
MUSC2132 Percussion Ensemble	MUS 174
MUSC2151 An Introduction to World Music, Jazz and Music Research	MUS 202
MUSC2210 Diction I	MUS 262
MUSC2220 Diction II	MUS 263
MUSC2240 Music History and Literature: Antiquity through Baroque	MUS 207
MUSC2310 Sound and Music Technology	MUS 273
MUSC2451 Ear Training III	MUS 203
MUSC2452 Ear Training IV	MUS 204
MUSC2460 Music Theory III	MUS 205
MUSC2461 Music Theory IV	MUS 206
MUSC2470 Functional Piano IV	MUS 261
MUSC 2510	MUS 230
MUSC2993 Workshop in Music	MUS 251
MUSC2996 Topics in Music	MUS 260
Nursing	
NURS 1110	NURS 110
Nutrition	
NUTR2110 Human Nutrition	HNDS 251
NUTR2120 Seminar I- The Fields of Dietetics	HNDS 201
Office Administration Technology Systems	
OATS106 Business Mathematics	Common
OATS105 Business English I	BOT 105
OATS106 Business Mathematics	BOT 106
OATS110 Records Management	BOT 110
OATS150 Medical Terminology	BOT 150
OATS169 Spanish Grammar for Business Administration	BOT 169
OATS170 Office Communications in Spanish I	BOT 170
OATS171 Office Communications in Spanish II	BOT 171
OATS191 Taking Minutes and Proofreading	BOT 191
OATS202 Keyboarding: Document Production	BOT 202
OATS203 Office Equipment and Procedures I	BOT 203

OATS207 Machine Transcription	BOT 207
OATS208 Medical Office Procedures	BOT 208
OATS209 Business and Technical Communications	BOT 209
OATS211 Information Processing I	BOT 211
OATS218 Information Processing II	BOT 218
OATS220 Internship in Business Office Technology	BOT 220
OATS221 Internship I	BOT 221
OATS222 Internship II	BOT 222
OATS228 Medical Insurance Billing	BOT 228
OATS233 Advanced Medical Transcription	BOT 233
OATS239 Personal Development	BOT 239
OATS250 Electronic Office Systems	BOT 250
OATS255 Special Topics	BOT 255
OATS270 Office Administration Technology Capstone	BOT 270
Office Technology	
OTEC1101 Beginning Keyboarding	OATS 101/BOT 101
OTEC1102 Keyboard Skillbuilding	OATS 102/BOT 102
OTEC2270 Medical Transcription	OATS 223/BOT 223
Philosophy	
PHIL1115G Introduction to Philosophy	PHIL 101G
PHIL1120G Logic, Reasoning, and Critical Thinking	PHIL 211G
PHIL1140G Philosophy and World Religions	PHIL 136G
PHIL1145G Philosophy, Law, and Ethics	PHIL 100G
PHIL 1155G	PHIL 124G
PHIL2110G Introduction to Ethics	PHIL 223G
PHIL2230G Philosophical Thought	PHIL 201G
Physical Education	
PHED1110 Dance	P E 128
PHED1230 Individual Sport	P E 147
PHED1230 Individual Sport	P E 148
PHED1230 Individual Sport	P E 150
PHED1290 Team Sport	P E 112
PHED1290 Team Sport	P E 113
PHED1290 Team Sport	P E 114
PHED1290 Team Sport	P E 115
PHED1290 Team Sport	P E 117
PHED1290 Team Sport	P E 166
PHED1310 Swim I	P E 130
PHED1320 Aqua Fit	P E 131
PHED1410 Yoga	P E 199
PHED1430 Pilates	P E 109
PHED1510 Training	P E 102
PHED1510 Training	P E 103
PHED1510 Training	P E 127
PHED1620 Fitness	P E 205
PHED1630 Career Fitness	P E 104
PHED1670 Aerobics	P E 129
PHED 1710	P E 154
PHED 1710	P E 159
PHED1830 Running	P E 173
PHED1910 Outdoor Experience	P E 263
PHED2996 Topics in Physical Education	P E 270
Physics	

PHYS1111 Introductory Computational Physics	PHYS 150
PHYS1112 Introductory Physics for the Health Sciences	PHYS 210
PHYS1115G Survey of Physics with Laboratory	PHYS 110G
PHYS1125G The Physics of Music	PHYS 120G
PHYS1230G Algebra-Based Physics I	PHYS 211G
PHYS1230L Algebra-based Physics I Laboratory	PHYS 211GL
PHYS1240G Algebra-Based Physics II	PHYS 212G
PHYS1240L Algebra-based Physics II Laboratory	PHYS 212GL
PHYS1310G Calculus -Based Physics I	PHYS 215G
PHYS1310L Calculus - Based Physics I Laboratory	PHYS 215GL
PHYS1311 Problems in Calculus-Based Physics I	PHYS 205
PHYS1320G Calculus-Based Physics II	PHYS 216G
PHYS1320L Calculus-Based Physics II Laboratory	PHYS 216GL
PHYS1321 Problems in Calculus-Based Physics II	PHYS 206
PHYS2110 Mechanics	PHYS 213
PHYS2110L Experimental Mechanics	PHYS 213 L
PHYS2111 Problems in Mechanics	PHYS 203
PHYS2120 Heat, Light, and Sound	PHYS 217
PHYS2120L Heat, Light, and Sound Laboratory	PHYS 217 L
PHYS2121 Supplemental Instruction to PHYS 2120	PHYS 218
PHYS2140 Electricity and Magnetism	PHYS 214
PHYS2140L Electricity & Magnetism Laboratory	PHYS 214 L
PHYS2141 Supplemental Instruction to PHYS 2140	PHYS 204
PHYS2230G General Physics for Life Sciences I	PHYS 221G
PHYS2230L Laboratory to General Physics for Life Sciences I	PHYS 221GL
PHYS2231 Problems in Algebra-based Physics I	PHYS 223
PHYS2240G General Physics for Life Sciences II	PHYS 222G
PHYS2240L Laboratory to General Physics for Life Sciences II	PHYS 222GL
PHYS2241 Problems in Algebra-based Physics II	PHYS 224
PHYS2996 Topics in Physics	PHYS 290
PHYS2997 Independent Study in Physics	PHYS 280
Political Science	
POLS1110G Introduction to Political Science	GOVT 110G
POLS1111 Introductory Government Seminar	GOVT 101
POLS1120G American National Government	GOVT 100G
POLS1130G Issues in American Politics	GOVT 150G
POLS2120G International Relations	GOVT 160G
POLS2996 Topics in Political Science	GOVT 201
Psychology	
PSYC1110G Introduction to Psychology	PSY 201G
PSYC2221 Applied Psychology	PSY 266
PSYC2230 Psychology of Adjustment	PSY 290
PSYC2311 Service Learning	PSY 274
Public Health Sciences	
PHLS1110G Personal Health & Wellness	PHLS 150G
PHLS2110 Foundations of Health Education	PHLS 275
PHLS2120 Essentials of Public Health	PHLS 295
Social Work	
SOWK2110G Introduction to Human Services and Social Work	S WK 221G
SOWK2111 Women's Issues in Social Work	S WK 251
Sociology	
SOCI1110G Introduction to Sociology	SOC 101G
SOCI2230 Sociology of Sexuality	SOC 263

SOCI2230 Sociology of Sexuality	SOC 269
SOCI2240 Sociology of Intimate Relationships and Family	SOC 258
SOCI2261 Issues in Death and Dying	SOC 262
SOCI2310G Contemporary Social Problems	SOC 201G
Spanish	
SPAN1110 Spanish I	SPAN 111
SPAN1120 Spanish II	SPAN 112
SPAN1210 Elementary Spanish for Heritage Learners I	SPAN 113
SPAN1220 Spanish for Heritage Learners II	SPAN 213
SPAN2110 Spanish III	SPAN 211
SPAN2120 Spanish IV	SPAN 212
SPAN2210 Spanish for Heritage Learners III	SPAN 214
Special Education	
SPED 2996	SPED 201
Speech & Hearing Science	
SPHS2110 Introduction to Communication Disorders	C D 221
Theater	
THEA1110G Introduction to Theatre	THTR 101G
THEA1210G Acting for Non-Majors	THTR 105
THEA1221 Beginning Acting	THTR 110
THEA1222 Stage Movement	THTR 120
THEA1223 The Art of Theatre	THTR 130
THEA1310 Introduction to Costuming	THTR 142
THEA1310L Costume Craft Lab	THTR 142 L
THEA1415 Running Crew I	THTR 149
THEA2221 Intermediate Acting: Scene Study and Monologues	THTR 210
THEA2222 Intermediate Acting for Non-Majors	THTR 206
THEA2310 Stagecraft	THTR 141
THEA2310L Stagecraft Laboratory	THTR 141 L
THEA2340 Introduction to Design	THTR 250
THEA2415 Running Crew II	THTR 249
THEA2421 Vocal Production for the Actor	THTR 220
THEA2993 Workshop in Theatre	THTR 200
THEA2996 Topics in Theater	THTR 222
Welding	
WELD1110 Introduction to Welding Fundamentals	WELD 105
WELD1113 General Welding for the Hobbyist	
WELD1120 Print Reading for Welders	WELD 110
WELD1130 SMAW (Shielded Metal Arc Welding) I	WELD 100
WELD1140 GMAW (Gas Metal Arc Welding) I	WELD 130
WELD1155 GTAW (Gas Tungsten Arc Welding) I	WELD 140
WELD1171 Layout and Fabrication	WELD 170
WELD1191 Welded Art	WELD 190
WELD1210 Flux Cored Arc Welding	WELD 160
WELD1220 Pipe Welding I	WELD 125
WELD1310 Metallurgy	WELD 120
WELD2130 SMAW (Shielded Metal Arc Welding) II	WELD 115
WELD2140 GMAW (Gas Metal Arc Welding) II	
WELD2155 GTAW (Gas Tungsten Arc Welding) II	WELD 180
WELD2220 Pipe Welding II	WELD 150
WELD2290 Welder Qualifications	WELD 211
WELD2996 Special Topics	WELD 295

Credit for Prior Learning

Credit for Prior Learning is special credit earned through American Council of Education (ACE), ACT, Advanced Placement (AP) Examinations, CLEP, Credit by Examination, Dantes DSST Exams, Independent Study, Directed Study, Military Service Credit, and Prior Learning Assessment.

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

Credit for Prior Learning

Advanced Placement

Advanced Placement

SENMC awards credit for advancement placement exams according to the NM Advanced Placement Policy (NMAC 5.55.8), click here to see credit hours awarded.

Credit for Prior Learning

College Level Examination Program (CLEP)

College Level Examination Program (CLEP)

SENMC accepts the College Level Examination Program of the college Entrance Examination Board.

You may earn credit from CLEP tests on the list below. To receive credit, you must provide an official score report to the Registrar's Office. If you are a transfer student, we accept the credits reported on your official transcripts from accredited colleges or universities. You cannot receive CLEP credit for a course for which you already received credit, or it's equivalent. For questions about CLEP test scores for which credit will be awarded, contact the Registrar's Office at , registrar@senmc.edu or 575-234-9416

SENMC CREDIT AWARDED FOR COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

Examination	Cut-Off Score for Credit	Hours	SENMC Course Equivalent
General Examinations			
College Composition	50	3	ENGL1110G Composition I
Humanities	50	3	ENGL1410G Introduction to Literature
College Mathematics	50	3	MATH1130G Survey of Mathematics
Subject Examinations			
Biology	50	4	Biology Transfer Elective
Business Law, Introductory	50	3	BLAW2110 Business Law I
Calculus	50	4	MATH1511G Calculus and Analytic Geometry I
Pre-Calculus	50	3	MATH1220G College Algebra
Chemistry	50	3	CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors and CHEM1225G General Chemistry II Lecture and Laboratory for STEM Majors
College Algebra	50	3	MATH1220G College Algebra
College Composition	50	3	ENGL1110G Composition I
Educational Psychology, Intro	50	3	PSYC 1XE3 Transfer Elective
Financial Accounting	50	3	ACCT2110 Principles of Accounting I (Financial)
French Language	50	8	FREN1110 French I and FREN1120 French II
German Language	50	8	Transfer Electives
History of USA I (Early Colonization in 1877	50	3	HIST1110G United States History I
History of USA II (1865 to present)	50	3	HIST1120G United States History II
Human Growth and Development	50	3	CEPY1120G Human Growth and Behavior
Information Systems and Computer Applications	50	3	BCIS1110 Fundamentals of Information Literacy and Systems
Macroeconomics, Principles of	50	3	ECON2110G Macroeconomic Principles
Management, Principles	50	3	MGMT2110 Principles of Management
Marketing, Principles of	50	3	MKTG2110 Principles of Marketing
Microeconomics, Principles of	50	3	ECON2120G Microeconomic Principles
Psychology, Introductory	50	3	PSYC1110G Introduction to Psychology
Sociology, Introductory	50	3	SOCI1110G Introduction to Sociology
Spanish Language	50	8	SPAN1110 Spanish I and SPAN1120 Spanish II
Spanish Language	60	7	SPAN1120 Spanish II and SPAN2110 Spanish III
Western Civ I: Ancient Near East to 1648	50	3	HIST1150G Western Civilization I
Western Civ I: 1648 to present	50	3	HIST1160G Western Civilization II
Note: Credit will be granted only for CLEP exams on this list.			

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Credit for Prior Learning

Credit by Examination

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.

1. 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.
2. A student desiring to apply for special examination may obtain the necessary forms from the Registrar's Office.

3. The fee for challenging a course is the same as the approved tuition rate.
4. Courses may not be challenged under the S/U option.

Credit for Prior Learning

Directed/Independent Study

Directed Study

A Directed Study course is a permanent catalog course delivered on an individual basis when the course is not offered that term or has low enrollment. Directed studies are approved under extenuating circumstances to provide an opportunity to complete a required course.

1. Directed studies must be approved by the department chair and instructor of the course.
2. Directed study courses will appear on the student's transcript with the specific course title.
3. There can be no change in the basic content of the course. The subject code, description, title, grading policy, credits, and course content cannot differ from the permanent course.
4. Registration after published drop/add dates is not permitted.
5. A student desiring to apply for Directed Study may obtain the necessary forms from the Registrar's Office.

Independent Study

Independent study provides enrolled students who are capable of and sufficiently motivated to undertake an independent study course in areas not covered by class offering, with limited oversight of a faculty member. Only students with 15 credit hours earned with a 2.0 cumulative GPA are eligible to enroll in 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.

1. The topic and outline must be agreed upon by the student with the approval of the instructor and the department chair.
2. Independent study course will appear on the students transcript.
3. Independent study course may not be taken instead of, or to modify a regular course offering.
4. Registration after published drop/add dates is not permitted.
5. A student desiring to apply for special examination may obtain the necessary forms from the Registrar's Office.

Credit for Prior Learning

Military Service Credit

Military Service Credit

Southeast New Mexico College 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. 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 SENMC 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 Registrar's Office. The Registrar will review with the department chair the merits of the appeal and render a decision. The decision of the Department Chair 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 Registrar's Office. 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 Southeast New Mexico College 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 SENMC degree are determined by Department Chair for that program. 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 Registrar and Department Chair for the program.

Credit for Prior Learning

Prior Learning Assessment

Prior Learning Assessment (PLA) allows students to receive college level credit as evidenced by state and national industry licenses, certifications and recognized for-credit-exams. SENMC will evaluate evidence of learning and award academic credit towards a certificate or an associate degree program.

1. Students who are admitted to the college and are enrolled in a certificate or degree program are eligible to participate in PLA
2. A student can earl PLA credit for multiple classes if they have relevant industry credentials, experience, or knowledge.
3. Students who have PLA credit must still meet the 15 credit hour requirement for residency at SENMC. Credits earned through prior learning assessment are never considered part of this requirement.
4. A student desiring to apply for PLA may obtain the necessary forms from the Registrar's Office.
5. Program specific crosswalks are developed and implemented when appropriate.
6. PLA assessment will be reviewed and approved by a subject matter expert (SME).

Credit for Prior Learning

Continuing Education Units (CEUs)

As determined by demand, SENMC will offer continuing education services (credit free) programs and activities for economic development, job upgrading, personal development and public service (e.g., short courses, seminars, workshops, conferences concerts, lectures and forums.) When participants attend continuing education and contract training programs, participants may receive CEUs (continuing education units). Participants must complete a SENMC continuing education registration form to receive CEUs and successfully complete the course. Enrollees may also obtain an official transcript of CEU courses, seminars, and certificate programs taken to improve professional development skills at the College. Participants have the responsibility to verify applicability with their respective sponsoring organization or professional board before attending a program.

Where necessary, CEUs will be awarded for satisfactory participation in the credit free activities that meet specific instructional criteria. The College will establish procedures as may be required to implement this policy effectively.

1. One contact hour = .1 CEU. When calculating the number of CEUs for a course, the number of contact minutes must be totaled and divided by 60 to arrive at the number of contact hours. Total contact hours must then be divided by 10 to obtain the number of CEUs. CEUs must be expressed in tenths of a CEU; For example, 17 contact hours equate to 1.7 CEUs and a three-contact hour course equates to .3 CEU.
2. These courses and programs are designed to meet the regional community needs of students and businesses, and fees are determined accordingly. Continuing education activity presenters and instructors are responsible for generating certain information. This includes the activity title, description, learning outcomes, and content. The format is determined by the activity organizers. However, the learning outcomes statements must be reviewed and approved by the College's Instructional Designer.
3. Registration fees for continuing education courses, seminars or certificate programs, and contract training programs must be paid by the individual enrolled or the sponsoring organization.
4. The College reserves the right to require documentation acceptable to the College in all cases of residency determination and verification for State of New Mexico programs including, but not limited to, current address, driver's license, high school transcript, and/or social security number.

5. Activities for which CEUs may not be awarded are:

a. Credit programs carrying academic credit, either secondary or collegiate.

b. Orientation programs that deal with such internal topics.

c. Committee meetings or other business activities.

d. Policy assignments, conferences, delegate assemblies, or similar meetings for policy-making purposes.

e. Attendance at entertainment or recreational lecture series, cultural performances, and social activities.

f. Work experience, on-the-job training or apprenticeships do not qualify for the award of CEUs, unless structured as part of a planned educational experience that fulfills these program criteria.

g. Study, assigned readings, reports, written assignments, and other related activities outside of the class or meeting schedule.

Summary of Required Documents and Payment for Awarding CEUs

Before the program:

At least two weeks before the course or program begins, these documents should be submitted to the Registrar's Office:

- Completed request for course or program approval form
- Program outline or agenda, with schedule
- A copy of program brochure or flyer
- Instructor's vita or description
- Sample evaluation form to be used in the program
- Participants must complete a SENMC admissions application

During the program, these items need to be completed:

- Participant sign-in (sheet format available at SENMC)
- Evaluation of the course (form developed by the entity offering course or program)

After the program:

No later than 10 business days after the course or program's conclusion, the following should be submitted to the Registrar's Office:

- Alphabetical list of participants receiving CEUs. The course or program title, location, date of activity, name of instructor or responsible person, and number of CEUs awarded should be on the heading of the sheet. This list must be signed by the qualified person certifying that attendees met the minimum requirements for satisfactorily completing the program.
- Program evaluations.
- CEU payments, if not paid during the program.

Drops/Withdrawals

As part of transition to a new student information system (SIS) in which the configuration of that system changed how drops and withdrawal are defined. Prior to Fall 2023 the SIS system, Banner, defined drops as courses dropped before census day and withdrawals as courses dropped after census day. The new SIS system, Anthology defines courses that are dropped before census day as unregistered courses and courses dropped after census day as drops and a grade of a "W".

Drop/Withdrawal from a Single Course

Any student wishing to formally Drop/Withdrawal from a single course, after the last day to drop has passed, can do so through their Academic Advisor or the Registrar's Office. All such Drops/Withdrawals will be registered on the student's transcript with the "W" grade indication. For students wishing to Drop/Withdrawal from all courses, please see the section on Drop/Withdrawal from SENMC.

Administrative Drops/Withdrawals

In the event that a student has stopped attending class without formally dropping/withdrawing, stopped using the online Learning Management System, or has a history of persistent unexcused absences or failures to complete assignments, the College reserves the right to remove the student from the class by means of an administrative Drop/Withdrawal. An administrative Drop/Withdrawal may be requested under the following circumstances:

1. At the beginning of the semester, if a student misses the first two (2) class meetings or online activities.
2. At any point in the semester, if a student misses four (4) consecutive class meetings or online activities.
3. If over the course of the semester, the student persistently fails to attend class or fails to complete assignments.

In NO case is an administrative Drop/Withdrawal used to avoid the assigning of D, F, or U grades for marginal or failing work. Administrative Drops/Withdrawals are subject to the same refund rules as student initiated Drops/Withdrawals (100% refund prior to census and no refund after census.)

To request consideration for an administrative Drop/Withdrawal, the instructor must complete the Student Absence/Lack of Progress Report, found on the forms page of the Registrar's Office webpage, and route for approvals. The Registrar's Office is ultimately responsible for processing the administrative Drops/Withdrawals

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In the event that a student has stopped attending class without formally dropping/withdrawing, stopped using the online Learning Management System, or has a history of persistent unexcused absences or failures to complete assignments, the College reserves the right to remove the student from the class by means of an administrative Drop/Withdrawal. An administrative Drop/Withdrawal may be requested under the following circumstances:

1. At the beginning of the semester, if a student misses the first two (2) class meetings or online activities.
2. At any point in the semester, if a student misses four (4) consecutive class meetings or online activities.
3. If over the course of the semester, the student persistently fails to attend class or fails to complete assignments.

In NO case is an administrative Drop/Withdrawal used to avoid the assigning of D, F, or U grades for marginal or failing work. Administrative Drops/Withdrawals are subject to the same refund rules as student initiated Drops/Withdrawals (100% refund prior to census and no refund after census.)

To request consideration for an administrative Drop/Withdrawal, the instructor must complete the Student Absence/Lack of Progress Report, found on the forms page of the Registrar's Office webpage, and route for approvals. The Registrar's Office is ultimately responsible for processing the administrative Drop/Withdrawal.

Upon receipt of a fully approved Student Absence/Lack of Progress Report, from the VPAA, the Registrar's staff will Drop/Withdrawal the student from the class and notify the student. This notification will be sent to the student's official SENMC email address. Students wishing to appeal the administrative Drop/Withdrawal, should reply to the Registrar's Office notification email, with a valid reason for nonattendance/non- completion of coursework, within 48 hours of the email delivery time stamp.

The Registrar's Office, in consultation with the class instructor, will determine if the appeal circumstances are reasonable and the student has not missed too much content to successfully complete the course. If so, the Registrar's staff will add the student back into the class and the student will be expected to actively participate in all future meetings and coursework. The Registrar's Office will notify the student, instructor, Department Chair and VPAA of the determination, via official SENMC email.

When an administrative Drop/Withdrawal is initiated for a student who is representing the College at an official out-of-town event any administrative Drops/Withdrawals will become effective upon the student's return from the event or five days after the drop slip fully approved form is submitted to the Registrar's Office.

Military Drops/Withdrawals

Southeast New Mexico College understands that our military students may be called to active duty, specialized training, or disaster relief efforts with little notice. U.S. active duty military students wishing to Drop/Withdrawal from all their classes must present their orders and their request for full Drop/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 SENMC students that have been called up for active duty must take the following steps in order to Drop/Withdrawal from all their classes:

1. Military and Veterans Programs (MVP): TA/VA students ordered to Active Duty must provide a copy of orders to the Registrar's Office or by email registrar@senmc.edu. To assist in reporting accurate information to their military service or the VA Regional Office, student should also provide, in writing, last day of class attendance.
2. All students presenting their orders to the Registrar's Office, (575) 234-9416, or registrar@SENMC.edu, will be unregistered from classes and a full tuition and fees refund for that semester.
3. 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. Please contact the bookstore for assistance at (575) 234-9240.

Student Medical Drop/Withdrawal

A student medical Drop/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 drop (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 Drop/Withdrawal 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 Drop/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 Financial Aid Office should be aware of policies regarding Drop/Withdrawal from the College. Medical Drop/Withdrawal begins and ends at the Registrar's Office.

Medical Conditions of a Family Member Drop/Withdrawal

A student who is dropping/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 Drop/Withdrawal 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 Drop/Withdrawal 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 Drop/Withdrawal is being requested. Immediate family member, in this instance, includes a spouse; a domestic partner; 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 Financial Aid Office should be aware of policies regarding Drop/Withdrawal from the College.)

Drop/Withdrawal from SENMC

Drop/Withdrawal from SENMC is an official procedure that must be:

1. Initiated by the student (using the Drop/Withdrawal form)
2. Have all necessary signatures (as indicated on the form)
3. Be approved and processed through the Registrar's Office, located on the Campus

Students who Drop/Withdrawal from all courses for the semester should do so in person through the Registrar's Office. However, students who are unable to come in person may submit an e-mail using their SENMC e-mail account to registrar@SENMC.edu. Students who leave without following the official procedure are graded appropriately by the instructor.

Applicable dates for the last day to Drop/Withdrawal are published on the approved academic calendar or under important dates.
A student who drops/withdraws from all classes for the semester will retain access to their SENMC account per current policy but will lose access to other services and privileges available to enrolled students.

Financial information concerning Drops/Withdrawals can be found at https://www.senmc.edu/business-office/withdrawals.html. Financial aid recipients should contact the Financial Aid Office before dropping/withdrawing. Students receiving funds awarded by the Financial Aid Office should be aware of policies regarding Drop/Withdrawal) from the College.

The Federal Higher Education Act requires the College to calculate a Return of Federal Student Aid Funds see Return of Title IV under Student Regulations..

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The Federal Higher Education Act requires the College to calculate a Return of Federal Student Aid Funds see Return of Title IV under Student Regulations.

General Degree/Certificate Requirements

Credentials Offered

SENMC offers Associate Degrees of 60 or more semester credit hours and Certificates that are less than 60 credit hours. Students interested in transferring to SENMC or another four-year institution should check the appropriate sections of the college catalog for more information.

Certificates

Certificates include the Certificate, Certificate of Achievement and 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 Degree. These certificates are recorded on the student's transcript. The following requirements apply to all certificates of achievements:

1. 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.
2. GPA requirement: Students must successfully complete all courses for the certificate as outlined in the catalog 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 25% of the credits earned toward the certificate must be completed at SENMC. Number of credit hours required for residency for each certificate is listed in the requirements for that certificate. If the certificate requires fewer than 6 credits, all credits must be completed at SENMC.
4. Individual certificates may have additional requirements.

Certificate and 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). 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 individual certificates are found in the respective catalogs and sections concerning these programs. The following requirements apply to all certificates.

1. 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.
2. 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 SENMC.
3. Residency: A minimum of 25% of the credits earned toward the certificate must be completed at SENMC. Number of credit hours required for residency for each certificate is listed in the requirements for that certificate. If the certificate requires fewer than 6 credits, all credits must be completed at SENMC.
4. Individual certificates may have additional requirements.

Degrees

Degrees include associate degrees and applied/technical degrees. Associate degrees include: Associate of Arts, Associate of Science, Associate of General Studies, other associate degrees that link to a specific major (the Associate of Education, for example). Applied/ technical associate degrees include: Associate of Applied Science.

Associate Degrees

Specific requirements for individual associate degrees are found in the sections concerning those degrees. The following requirements apply to all associate degrees:

1. 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.
2. New Mexico General Education Curriculum: State mandated approved general education courses (as specified in the New Mexico General Education Curriculum section); such course are designated with a "G" with minimum of 31 credits required.
3. GPA requirement: Students must have a cumulative GPA of 2.0 or better in all courses taken in the program SENMC.
4. ENGL 1110G: Students must earn a C- or higher.
5. Residency: A minimum of 15 credits for the associate degree must be completed at SENMC.
6. FYEX 1111 Introduction to College Studies is required for all degree-seeking students with fewer than 30 credit hours successfully completed. The course must be taken in the first semester of enrollment at SENMC.
7. Individual academic programs may have additional requirements.
8. Students interested in transferring to SENMC or another four-year institution should check the appropriate sections of the college catalog for more information.

Applied/Technical Associate Degrees (Associate of Applied Science - AAS)

Specific requirements for individual applied/technical associate degrees are found in the sections concerning these degrees. These degrees typically prepare students for the workforce. The following requirements apply to all applied/technical associate degrees:

1. 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.
2. New Mexico General Education Curriculum: State mandated general approved education courses (as specified in General Education section); such course are designed with a "G" with of minimum of 15 credits required.
3. GPA requirement: Students must have a cumulative GPA of 2.0 or better in all courses taken at SENMC.

4. ENGL 1110G: Students must earn a C- or higher.
5. Residency: A minimum of 15 of the 60 credits for the applied/ technical associate's degree must be completed at SENMC. Individual academic programs may have additional requirements.
6. FYEX 1111 Introduction to College Studies is required for all degree-seeking students with fewer than 30 credit hours successfully completed. The course must be taken in the first semester of enrollment at SENMC.
7. Individual academic programs may have additional requirements.
8. Credits for these programs may or may not apply toward a four-year degree.
9. Students interested in transferring to SENMC or another four-year institution should check the appropriate sections of the college catalog for more information.

Application for Degree or Certificate

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

Students who will be completing two degrees or certificates in the same semester must apply for each credential separately.

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

Dual/Second Degree

Associate degree seeking students who are interested in a dual degree should consult with their academic advisor. A student may earn multiple degrees, the two degrees must total at least 75 credit hours, and the second degree must include at least 15 hours of credits which are not applied to the first degree.

Degree Revocation

The Board of Trustees 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 SENMC policy and related rules.

Honorary Degrees

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

General Education - Overview

New Mexico updated its model of general education to focus on the essential skills that are needed by today's college graduates to be successful as they pursue advanced degrees and/or careers. The following is a listing of general education courses specifically approved for SENMC.

Area I: Communications

Area II: Mathematics

Area III: Laboratory Science

Area IV: Social/Behavioral Sciences

Area V: Humanities

Area VI: Creative and Fine Arts

Area VII: Flexible (General Education Elective(s)

Area I: Communications

COURSE CODE	TITLE	HOURS	COURSE CODE	TITLE	HOURS
ACOM1130G	Effective Leadership and Communication in Agriculture	4	ENGL2130G	Advanced Composition	3
COMM1115G	Communication	3	ENGL2210G PROFESSIONAL & TECHNICAL COMMUNICATION	Professional & Technical Communication	3
COMM1130G	Public Speaking	3	ENGL2215G ADVANCED TECHNICAL AND PROFESSIONAL COMMUNICATION	Advanced Technical and Professional Communication	3
ENGL1110G	Composition I	3	ENGL2221G WRITING IN THE HUMANITIES AND SOCIAL SCIENCE	Writing in the Humanities and Social Science	3

Area II: Mathematics

COURSE CODE	TITLE	HOURS	COURSE CODE	TITLE	HOURS
MATH1130G SURVEY OF MATHEMATICS	Survey of Mathematics	3	MATH1511G CALCULUS AND ANALYTIC GEOMETRY I	Calculus and Analytic Geometry I	4
MATH1220G COLLEGE ALGEBRA	College Algebra	3	MATH1521G CALCULUS AND ANALYTIC GEOMETRY II	Calculus and Analytic Geometry II	4
MATH1250G TRIGONOMETRY & PRE-CALCULUS	Trigonometry & Pre-Calculus	3	MATH2134G FUNDAMENTALS OF ELEMENTARY MATH II	Fundamentals of Elementary Math II	3
MATH1350G INTRODUCTION TO STATISTICS	Introduction to Statistics	3	MATH2350G STATISTICAL METHODS	Statistical Methods	3
MATH1430G APPLICATIONS OF CALCULUS I	Applications of Calculus I	3	MATH2530G CALCULUS III	Calculus III	3

Area III: Laboratory Science

COURSE CODE	TITLE	HOURS	COURSE CODE	TITLE	HOURS
AGRO1110G INTRODUCTION TO PLANT SCIENCE (LECTURE & LABORATORY)	Introduction to Plant Science (Lecture & Laboratory)	4	FSTE2110G FOOD SCIENCE I	Food Science I	4
ANTH1135G INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY & ANTH1135L INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY LABORATORY	Introduction to Biological Anthropology and Introduction to Biological Anthropology Laboratory	4	FWCE1110G INTRODUCTION TO NATURAL RESOURCES MANAGEMENT	Introduction to Natural Resources Management	4
ASTR1115G INTRODUCTION TO ASTRONOMY (LEC+LABORATORY)	Introduction to Astronomy (Lec+Laboratory)	4	GEOG1110G PHYSICAL GEOGRAPHY	Physical Geography	4
ASTR1120G THE PLANETS	The Planets	4	GEOL1110G PHYSICAL GEOLOGY	Physical Geology	4
BIOL1120G HUMAN BIOLOGY & BIOL1120L HUMAN BIOLOGY LABORATORY	Human Biology and Human Biology Laboratory	4	HNRS1135G INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY & HNRS1135L INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY LAB	Introduction to Biological Anthropology and Introduction to Biological Anthropology Lab	4
BIOL1130G INTRODUCTORY ANATOMY & PHYSIOLOGY (NON MAJORS)	Introductory Anatomy & Physiology (non majors)	4	HNRS2116G EARTH, TIME AND LIFE	Earth, Time and Life	4
BIOL1190G CONTEMPORARY PROBLEMS IN BIOLOGY	Contemporary Problems in Biology	4	PHYS1115G SURVEY OF PHYSICS WITH LABORATORY	Survey of Physics with Laboratory	4
BIOL2110G PRINCIPLES OF BIOLOGY: CELLULAR AND MOLECULAR BIOLOGY & BIOL2110L PRINCIPLES OF BIOLOGY: CELLULAR AND MOLECULAR LABORATORY	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Laboratory	4	PHYS1125G THE PHYSICS OF MUSIC	The Physics of Music	4
BIOL2610G PRINCIPLES OF BIOLOGY: BIODIVERSITY, ECOLOGY, AND EVOLUTION & BIOL2610L PRINCIPLES OF BIOLOGY: BIODIVERSITY, ECOLOGY, AND EVOLUTION LABORATORY	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	4	PHYS1230G ALGEBRA-BASED PHYSICS I & PHYS1230L ALGEBRA-BASED PHYSICS I LABORATORY	Algebra-Based Physics I and Algebra-based Physics I Laboratory	4
CHEM1120G INTRODUCTION TO CHEMISTRY LECTURE AND LABORATORY (NON MAJORS)	Introduction to Chemistry Lecture and Laboratory (non majors)	4	PHYS1240G ALGEBRA-BASED PHYSICS II & PHYS1240L ALGEBRA-BASED PHYSICS II LABORATORY	Algebra-Based Physics II and Algebra-based Physics II Laboratory	4
CHEM1215G GENERAL CHEMISTRY I LECTURE AND LABORATORY FOR STEM MAJORS	General Chemistry I Lecture and Laboratory for STEM Majors	4	PHYS1310G CALCULUS -BASED PHYSICS I & PHYS1310L CALCULUS - BASED PHYSICS I LABORATORY		4
CHEM1225G GENERAL CHEMISTRY II LECTURE AND LABORATORY FOR STEM MAJORS	General Chemistry II Lecture and Laboratory for STEM Majors	4	PHYS1320G CALCULUS-BASED PHYSICS II & PHYS1320L CALCULUS-BASED PHYSICS II LABORATORY		4
C S 171G - MISSING COURSE	Introduction to Computer Science	4	PHYS2230G GENERAL PHYSICS FOR LIFE SCIENCES I & PHYS2230L LABORATORY TO GENERAL PHYSICS FOR LIFE SCIENCES I		4
ENVS1110G ENVIRONMENTAL SCIENCE I (L)	Environmental Science I (L)	4	PHYS2240G GENERAL PHYSICS FOR LIFE SCIENCES II & PHYS2240L LABORATORY TO GENERAL PHYSICS FOR LIFE SCIENCES II		4

Area IV: Social/Behavioral Sciences

COURSE CODE	TITLE	HOURS	COURSE CODE	TITLE	HOURS
AEEC2130G SURVEY OF FOOD AND AGRICULTURAL ISSUES	Survey of Food and Agricultural Issues	3	HNRS2161G WINDOW OF HUMANITY	Window of Humanity	3
ANTH1115G INTRODUCTION TO ANTHROPOLOGY	Introduction to Anthropology	3	HNRS2170G THE HUMAN MIND	The Human Mind	3
ANTH1137G HUMAN ANCESTORS	Human Ancestors	3	HNRS2172G ARCHAEOLOGY: SEARCH FOR THE PAST	Archaeology: Search for the Past	3
ANTH1140G INTRODUCTION TO CULTURAL ANTHROPOLOGY	Introduction to Cultural Anthropology	3	HNRS2180G CITIZEN AND STATE GREAT POLITICAL ISSUES	Citizen and State Great Political Issues	3
ANTH1160G WORLD ARCHAEOLOGY	World Archaeology	3	HRTM1120G INTRODUCTION TO TOURISM	Introduction to Tourism	3
ANTH2140G INDIGENOUS PEOPLES OF NORTH AMERICA	Indigenous Peoples of North America	3	LING2110G INTRODUCTION TO THE STUDY OF LANGUAGE AND LINGUISTICS	Introduction to the Study of Language and Linguistics	3
ANTH 2150G	Indigenous Peoples of the American Southwest	3	PHLS1110G PERSONAL HEALTH & WELLNESS	Personal Health & Wellness	3
BUSA2230G HUMAN RELATIONS IN BUSINESS	Human Relations in Business	3	POLS1110G INTRODUCTION TO POLITICAL SCIENCE	Introduction to Political Science	3
CEPY1120G HUMAN GROWTH AND BEHAVIOR	Human Growth and Behavior	3	POLS1120G AMERICAN NATIONAL GOVERNMENT	American National Government	3
CJUS1110G INTRODUCTION TO CRIMINAL JUSTICE	Introduction to Criminal Justice	3	POLS1130G ISSUES IN AMERICAN POLITICS	Issues in American Politics	3
ECON1110G SURVEY OF ECONOMICS	Survey of Economics	3	POLS2120G INTERNATIONAL RELATIONS	International Relations	3
ECON2110G MACROECONOMIC PRINCIPLES	Macroeconomic Principles	3	PSYC1110G INTRODUCTION TO PSYCHOLOGY	Introduction to Psychology	3
ECON2120G MICROECONOMIC PRINCIPLES	Microeconomic Principles	3	SOCI1110G INTRODUCTION TO SOCIOLOGY	Introduction to Sociology	3
FSTE2130G SURVEY OF FOOD AND AGRICULTURAL ISSUES	Survey of Food and Agricultural Issues	3	SOCI2310G CONTEMPORARY SOCIAL PROBLEMS	Contemporary Social Problems	3
GEOG1120G WORLD REGIONAL GEOGRAPHY	World Regional Geography	3	SOWK2110G INTRODUCTION TO HUMAN SERVICES AND SOCIAL WORK	Introduction to Human Services and Social Work	3
GEOG1130G HUMAN GEOGRAPHY	Human Geography	3			

Area V: Humanities

COURSE CODE	TITLE	HOURS	COURSE CODE	TITLE	HOURS
ENGL1410G INTRODUCTION TO LITERATURE	Introduction to Literature	3	HNRS2120G FOUNDATIONS OF WESTERN CULTURE	Foundations of Western Culture	3
ENGL2520G FILM AS LITERATURE	Film as Literature	3	HNRS2140G PLATO AND THE DISCOVERY OF PHILOSOPHY	Plato and the Discovery of Philosophy	3
ENGL2650G WORLD LITERATURE I	World Literature I	3	HNRS2141G BAMBOO AND SILK: THE FABRIC OF CHINESE LITERATURE	Bamboo and Silk: The Fabric of Chinese Literature	3
FREN2120G FRENCH IV	French IV	3	HNRS2145G CELTIC LITERATURE	Celtic Literature	3
HIST1105G MAKING HISTORY	Making History	3	HNRS2160G NEW TESTAMENT AS LITERATURE	New Testament as Literature	3
HIST1110G UNITED STATES HISTORY I	United States History I	3	HNRS2165G HUMANITIES IN THE 21ST CENTURY	Humanities in the 21st Century	3
HIST1120G UNITED STATES HISTORY II	United States History II	3	HNRS2171G THE WORLDS OF ARTHUR	The Worlds of Arthur	3
HIST1122G HISTORY OF LATINO/A/X IN THE U.S.	History of Latino/a/x in the U.S.	3	HNRS2173G MEDIEVAL UNDERSTANDINGS: LITERATURE AND CULTURE IN THE MIDDLE AGES	Medieval Understandings: Literature and Culture in the Middle Ages	3
HIST1130G WORLD HISTORY I	World History I	3	HNRS2185G DEMOCRACIES, DESPOTS AND DAILY LIFE	Democracies, Despots and Daily Life	3
HIST1140G WORLD HISTORY II	World History II	3	HNRS2190G CLAIMING A MULTIRACIAL PAST	Claiming a Multiracial Past	3
HIST1150G WESTERN CIVILIZATION I	Western Civilization I	3	NATV1150G INTRODUCTION TO NATIVE AMERICAN STUDIES	Introduction to Native American Studies	3
HIST1160G WESTERN CIVILIZATION II	Western Civilization II	3	PHIL1115G INTRODUCTION TO PHILOSOPHY	Introduction to Philosophy	3
HIST2245G ISLAMIC CIVILIZATIONS TO 1800	Islamic Civilizations to 1800	3	PHIL1120G LOGIC, REASONING, AND CRITICAL THINKING	Logic, Reasoning, and Critical Thinking	3
HIST2250G EAST ASIA TO 1600	Islamic Civilizations since 1800	3	PHIL1140G PHILOSOPHY AND WORLD RELIGIONS	Philosophy and World Religions	3
HIST2251G EAST ASIA SINCE 1600	East Asia to 1600	3	PHIL1145G PHILOSOPHY, LAW, AND ETHICS	Philosophy, Law, and Ethics	3
HNRS2110G THE PRESENT IN THE PAST: CONTEMPORARY ISSUES AND THEIR HISTORICAL ROOTS	East Asia since 1600	3	PHIL2110G INTRODUCTION TO ETHICS	Introduction to Ethics	3
HNRS2117G THE WORLD OF THE RENAISSANCE: DISCOVERING THE MODERN	The Present in the Past: Contemporary Issues and their Historical Roots	3	PHIL2230G PHILOSOPHICAL THOUGHT	Philosophical Thought	3

Area VI: Creative and Fine Arts

COURSE CODE	TITLE	HOURS	COURSE CODE	TITLE	HOURS
ARTH1115G ORIENTATION IN ART	Orientation in Art	3	HNRS2115G ENCOUNTERS WITH ART	Encounters with Art	3
ARTH2110G HISTORY OF ART I	History of Art I	3	HNRS2130G SHAKESPEARE ON FILM	Shakespeare on Film	3
ARTH2120G HISTORY OF ART II	History of Art II	3	HNRS2178G THEATRE: BEGINNINGS TO BROADWAY	Theatre: Beginnings to Broadway	3
ARTS1145G VISUAL CONCEPTS	Visual Concepts	3	MUSC1110G MUSIC APPRECIATION: JAZZ	Music Appreciation: Jazz	3
DANC1110G DANCE APPRECIATION	Dance Appreciation	3	MUSC1130G MUSIC APPRECIATION: WESTERN MUSIC	Music Appreciation: Western Music	3
ENGL2310G INTRODUCTION TO CREATIVE WRITING	Introduction to Creative Writing	3	THEA1110G INTRODUCTION TO THEATRE	Introduction to Theatre	3
HNRS2114G MUSIC IN TIME AND SPACE	Music in Time and Space	3	THEA1210G ACTING FOR NON-MAJORS	Acting for Non-Majors	3

Area VII: Flexible (General Education Elective(s))

COURSE CODE/AREA	TITLE	HOURS	COURSE CODE/AREA	TITLE	HOURS
ENGR100G INTRODUCTION TO ENGINEERING (L)	Introduction to Engineering (L)	3	AREA IV: SOCIAL/BEHAVIORAL SCIENCES		3
AREA I: COMMUNICATIONS		3	AREA V: HUMANITIES		
AREA II: MATHEMATICS		3	AREA VI: CREATIVE AND FINE ARTS		
AREA III: LABORATORY SCIENCE		4			

Grading

College 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 my.senmc.edu 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 SENMC system for final grades is expressed in letters, which carry grade points that are used in calculating the cumulative grade-point average (GPA), as shown in this table:

GRADES COMPUTED IN THE GPA	
LETTER GRADE	**GRADE POINTS PER UNIT OF CREDIT**
A+, HA+	4.000
A, HA	4.000
A-, HA-	3.700
B+, HB+	3.300
B, HB	3.000
B-	2.700
C+	2.300
C, C-	2.000
D+, D, D-	1.000
F	0.000
GRADES NOT COMPUTED IN THE GPA	
W - Drop (Withdrawal)	
N - Grade not submitted	
CR - Credit authorized, but not letter grade	
IP - In progress	
S - Satisfactory work*	
U - Unsatisfactory work	
I - Incomplete work	
AU - Audit	

*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 or S 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 GPA. Traditional letter grades are those which are used in the GPA determination: A+, A, A-, B+, B, B-, C+, C, C-, D+, D, D- and F. In computing the overall GPA, the total credits in which grades of A+ through F have been assigned is divided into the total number of grade points earned.

Early Performance Grades

Early Performance Grades (sometimes referred to as Midterm Grade) will be posted and available to students through the my.senmc.edu portal. The purpose of the Early Performance Grade posting is to ensure that students have an opportunity to address any performance issues. Students should be mindful that the Early Performance Grade (six-week for 16 week term, four-week for 8 week term) reflects a student's 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 dropping /withdrawal from course(s) must meet with their academic advisor. However, prior to the last day to drop /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 or the library may require that records be kept for longer periods.

Minimum Grade Requirement

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

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 department 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

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, students must meet the eligibility requirements and obtain approval of an academic advisor. Eligibility requires completion of 30 credits. Non-degree 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 SENMC.

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 designated as S/U, the following limitations apply to courses in which the S/U option is elected:

1. Students must have successfully completed 30 credits.
2. No more than 7 credits per semester or 4 credits per summer session.
3. Not to exceed a total of 15 credits towards a degree.
4. Not a required course for the student's major.

Students electing the S/U option should be mindful that upon a change of programs, the new program may require a traditional grade for a course within that program 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 SENMC, 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.

Incomplete (I) Grade Designation

The letter grade of incomplete (I) 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 drop/withdrawal from the course. In no case is an I grade to be used to avoid the assigning of grades for marginal or failing work.

Examples of appropriate circumstances include:

- Documented illness
- Documented death
- Documented 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 Request Form". The instructor must indicate on the form what assignments the student must complete to have the I grade change to the earned letter grade. If so, the instructor should indicate the steps necessary to complete the remaining coursework and the expected deadline. The I grade request form should either be signed by the student in person, or the chair must send a copy of the document to the student's official permanent address, as recorded in the Registrar's Office, with a notation on the form that the student was not available for signature.

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 Request 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 grade will change to a failing grade after 12 months. To change the I grade, the instructor must complete a "Change of Grade Form," obtain the signature of the department chair for the course, and submit the form to the Registrar's Office.

W Grade Designation

The W grade is assigned only in courses when the student drops/withdrawal or is administratively dropped/withdrawn from the course after the last day to unregister 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

Students may repeat courses, for a change in grade, when the original grade earned was a D+, D, D-, or F. Once a grade of C- or better is earned, the course will then be substituted in the calculation of the GPA. Student transcripts will continue to show the grade awarded for each course attempt. If the student's original grade was a D+, D, or D- and the student repeats the course, but receives an F, the second grade will not be substituted for the original.

Grade Point Average

Grade-point average (GPA) calculations are based solely on courses taken at SENMC or for students who elect the Include Grade Option for courses taken as a former NMSU-Carlsbad student.

Graduation/Commencement

Graduation Requirements

For specific graduation requirements for any degree offered at SENMC please see the Degrees, Majors, Minors and Other Academic Programs of Study 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 a "Graduation Application". The application for Degree form is available online through the SENMC website. It must be completed and submitted by the designated deadline for that semester. The latest date for substitution or waiver of required courses for degree candidates is two weeks after the last date of registration for all terms.

Attendance at the Commencement Ceremony

Commencement is a symbolic ceremony, that students can elect to participate in after they have applied for their degree. Participation in commencement does not, in itself, mean that a student is considered an SENMC graduate. In order to be awarded a degree, a student must fulfill college requirements as determined by academic department. The degree will reflect the graduation date from the application for degree in which all degree requirements were determined by the academic colleges. The department will confirm students' eligibility to participate in the commencement ceremony that is held at the end of the spring semester

Diploma

All fees and bills owed the college must be paid in full before a student may receive a diploma . The degree title and degree type will be printed on the diplomas, in accordance to the degree awarded. Academic honors will also be printed on the diplomas below the degree. The name on the diploma will reflect the name on the Graduation Application. Diplomas will be mailed to graduates approximately eight weeks after final grades have been processed and the Registrar's Office certifies the degree requirements were met. The diploma will be mailed to the address specified on the graduation application, unless an address change was requested before the last day of the semester.

Performance/Progress

Attendance and Student Performance

Academic success is closely correlated to student participation and attendance. Accordingly, students are expected to regularly attend all 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 dropped/withdrawn from a course due to excessive absences 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 Department Chair. If the Department Chair agrees with the recommendation of the course instructor, the student will be withdrawn from the course. Any student who has been administratively dropped (withdrawn) from a class may appeal that decision to the Department Chair where the course was offered within 10 days after notification of the drop (withdrawal).

Any absences due to the student's requested participation in a college sponsored event (e.g., representing SENMC at legislative session 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 student will provide the instructor(s) 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 dropped/withdrawn with the approval of the Department Chair for the course, and with notification to the Vice President of Academic Affairs. Any student who has been administratively dropped/withdrawn from a class may appeal that decision to the Department Chair 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 Registrar as described in the grading section of this catalog. Any student who believes that their academic performance has been evaluated unfairly or incorrectly may appeal the grade through the College's Academic Appeals process as provided in this Catalog.

Academic Program Assessment

SENMC 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 achievement of 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 SENMC's Academic Program Assessment in the Assessment Handbook

Exam Week and Final Examinations

SENMC designates the last week of each semester as "Exam Week" during which each course has a single 2-hour meeting time for a mandatory culminating activity which may be a final examination or some other course related activity. The Registrar's Office establishes the Final Examination Schedule for each semester. Examinations are typically held in the course's usual lecture/lab room. For courses that were not scheduled to meet at the specific times listed under "Regular Class Time" on the Registrar's Office Final Examination Schedule, the instructor and course department coordinate examination dates, times and locations with SENMC's Registrar's Office (575) 234-9241. 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 chair 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 chair.

Developmental Evaluation

The academic skill level of all entering first-time students at the time of registration is evaluated based upon ACT scores, SAT scores, ACCUPLACER scores, and/or alternative placement methods. The student's eligibility to enroll in college level English and Mathematics courses is dependent upon this evaluation. Students who have not demonstrated adequate preparation for college 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.

Fresh start for former NMSU-Carlsbad students

Credits earned by SENMC students who were former NMSU-Carlsbad undergraduate students prior to Fall 2023 or dual credit students prior to Fall 2022 credits with a D- or higher will be entered as transfer credits under the institution name "Southeast New Mexico College formerly NMSU-Carlsbad". These credits will not be calculated in the student's GPA at SENMC and are designated with a letter (T) in front of the letter grade. Accepted transfer credits will be considered when financial aid satisfactory progress is reviewed.

Include in GPA Option

As a former NMSU-Carlsbad student, the student can request NMSU-Carlsbad courses completed prior to attending SENMC be calculated as a part of the SENMC overall cumulative GPA. These are the consequences of exercising the Include in GPA option:

1. All the student's academic history, including withdraw (W), incomplete (I), failure (F), audit (AU), or no credit (NC), as a former NMSU-Carlsbad undergraduate student prior to Fall 2023 or a dual credit student before Fall 2022 will be included.

2. These courses will be included on the transcript with a grade and the letter (Y) in front of the letter grade to designated as “Included in the GPA” on the transcript. These credits will now be included in the calculation of the overall cumulative grade point average.
3. Accepted credits will be considered when financial aid satisfactory progress is reviewed.

Academic Forgiveness

SENMC recognizes that students may have terms in which they find themselves in a situation that is not optimal for their best academic performance. This academic forgiveness policy seeks to provide students with the means to recover from a challenging academic coursework by offering them the opportunity to ask for Academic Forgiveness for all or part of a previous terms (terms are in fall, spring, and summer). A student may need to exercise this option for several reasons. Past academic courses may have a negative effect on a student’s ability to reach their academic goals. The student may find a program that is suited to their ability, but the previous coursework continues to affect their overall GPA.

Criteria:

1. Students will have the opportunity to retroactively remove all or part of their credit hours from their grade calculation in previous terms.
2. Only a grade of C+, C, C-, D+, D, D-, or F may be forgiven.
3. Academic Forgiveness can only be awarded once.
4. Forgiven courses will be shown on the transcript with a letter (X) in front of the letter grade. These grades will not be included in the grade calculation.
5. Eligible students must be in the process of earning their first associate degree.
6. The student must have completed at least 15 credit hours at a 2.0 or higher GPA after the terms to be forgiven to be eligible to make the request.
7. Students who leave the college and return are eligible to apply for Academic Forgiveness but must complete 15 credit hours at a 2.0 or higher GPA.
8. Students must be currently enrolled to make the request.
9. The student must make the request prior to graduation.
10. If the term(s) to be forgiven is the next-to-last term completed for the degree, the student must make the request prior to finals week of the final term, and degree conferral may be delayed.
11. Only SENMC credit can be forgiven.
12. If a student chooses to retake a course that has been forgiven, the forgiven course will count as a previous attempt.
13. Students still need to meet Satisfactory Academic Progress for financial aid purposes.
14. Courses in which the student has violated Academic Dishonesty policies will not be forgiven.

Procedure:

1. It is recommended that students first discuss the Academic Forgiveness request with their academic advisor.
2. If a student chooses to request Academic Forgiveness, the process is initiated in the Registrar’s Office with the appropriate form.
3. The Registrar’s Office will verify eligible classes and process the request.

Registration

Registration at SENMC is a process that includes: (1) academic advising, (2) registering for classes, online or with your academic advisor, and (3) paying the tuition and fee bill.

Admission Requirement

No person will be will be allowed to register for courses until formally admitted to SENMC.

Class Schedule

Each semester, the Registrar's Office provides an online schedule of classes which can be accessed through my.SENMC.edu or the SENMC website. Note that not all courses listed in the catalog are offered every semester.

College Credits

The unit of college 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 Students

The full-time course load in a regular semester (fall or spring) 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. Registration for a course overload requires permission from the VPAA. Generally a student must have a 3.0 GPA in the previous semester to qualify for an overload. A “Change of Schedule” form is required and available on the Registrar's website.

Class Delivery

Classes at SENMC are delivered in a variety of modalities. Students may see any of the following schedule types when viewing the class schedule through my.SENMC.• Classroom Lecture: traditional in-person class meetings that occur on specified days and times in a specified location.
• Hybrid (Online + F2F): hybrid delivery that is offered both online and with required in-person class meetings that occur on specified days and times in a specified location.
• Hyflex (Online + F2F scheduled meeting time): hybrid delivery that is offered both online and with required in-person class meetings that occur on specified days and times in a specified location
• Hyflex Varied (Online, F2F, or synchronous online): hybrid delivery that is offered both online and with required in-person class meetings that occur on specified days and times in a specified location
• Lab: traditional in-person lab meetings that occur on specified days and times in a specified location.
• Fully Online (Online with no Synchronous Meeting): online class meetings that do not require students to meet virtually
• Independent Study: students and instructors schedule meetings on an as needed basis to discuss course content and student progress
• Practicum: practicum/clinical with implied meetings on an as needed basis to discuss course content and student progress

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 disenrolled 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, 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 Registrar's 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, unregister or drop (withdraw) from course(s) for the relevant semester.

Adding Courses:

There are two different types of deadlines for adding courses:

1. Last day to add a class without instructor's signature - during this period courses may be added online through my.SENMC.edu, or through your academic advisor (if necessary).
2. Last day to add a class with instructor's signature - during this period courses may only be added with either the "Change of Schedule" form signed by the instructor (available online on the Registrar's website).

* Students taking classes online and who do not live in the Carlsbad Area must email the instructor, using SENMC 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 registrar@SENMC.edu with the student's name, ID number, course number, and section they are wanting to add.

Unregistering and Dropping (Withdrawing) from Courses:

There are two different types of deadlines for unregistering and dropping (withdrawing) from courses:

1. Last day to unregister without a "W" grade – during this period, the student can unregister 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).
2. Last day to drop (withdraw) with a "W" grade – during this period, the student can drop (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 drop (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 Department Chair or the Registrar. For more information about the process for adding or dropping (withdrawing) from a course(s), please speak with your academic advisor or contact the Registrar's 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 preparatory course in the same subject any day before the last day to drop (withdraw) from an individual course.

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 undergraduate students who are on academic probation.

Student Records

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, SENMC email address, Student ID number, most recent previous educational institution attended, and some information about students involved in recognized activities.

Other information regarding disclosure of student data is posted on the Registrar's website and in the Registrar's Office, in compliance with the Act.

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

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 college or plan to seek employment on campus. The social security number is a confidential record and is maintained as such by the college in accordance with the Family Educational Rights and Privacy Act.

In addition, the college 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 Registrar's Office. All students will need to fill out the "Demographic Change form" located at (link) and provide a current signed Social Security card and one of the following documents:

1. Government Issued ID (driver's license, state card or valid passport), a Birth Certificate, a Court Order, a Marriage Certificate/Divorce Decree or a Certificate of Naturalization/I551 Card.
2. Citizenship change: Certificate of Naturalization or I551 card.

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 my.SENMC.edu portal and does not need to be done at the Registrar's Office. For more information about the specific documents that are needed please contact the Registrar's at (575) 234-9416.

Changes in Residency Status for Tuition Purposes

The Registrar's Office does not determine the laws and rulings for determining Residency, these are state laws that the Registrar's Office 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 Registrar's Office. 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 Registrar's 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 contact the Registrar's Office at 575-234-9416.

Official Transcripts

An official transcript is the College's certified statement of your complete SENMC 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 SENMC. Grades are not transferred, nor are they used to calculate the SENMC grade point averages. Official transcripts will not be released if the student is in debt to the college. Transcripts can either be ordered in person at the Registrar's or complete the Transcript Request form. 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 SENMC record.

Purging of Student Files

All academic files for students who attend SENMC 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 three year after being admitted are destroyed.

Admissions

Admissions

Southeast New Mexico College (SENMC) is an open admissions postsecondary institution. Prospective students who have graduated from an accredited high school, have earned a high school equivalency, are transfer or visiting students, or are dual enrolled in high school and college or pursing a high school equivalency may apply. Prospective students who are 18 or older and did not graduate from high school or the equivalent may be admitted as non-degree until ability to benefit has been met. Admission to the college does not guarantee admission or enrollment into a particular course or program of study.

A student may be accepted for undergraduate admission to SENMC as a:

1. A degree-seeking student (must provide official transcripts).
    - Official transcripts must come directly from the institution where you obtained your diploma and/or completed college courses. If the document is delivered to us from anyone other than the institution, it is not considered an official transcript.
    - Unofficial transcripts can be accepted as a Tentative Admit. If official transcripts are not received, students will be admitted as "Tentative Conditional Admit" to allow additional time for transcripts to be received. If transcripts are not received by the end of the first semester, the student will not be able to register for the next semester until official transcripts are received.
2. A non-degree student under the policies and conditions as set forth in this section.

How to Apply

Prospective students are encouraged to apply for admission to SENMC by visiting Admissions or contact the admissions office to request an application. Students are required to submit an application for admission prior to registration.

New Student Orientation

All new, first-time degree seeking students and transfer students with fewer than 30 credits are required to complete New Student Orientation at the beginning of the first semester with SENMC. Readmit students and transfer students with more than 30 credits are invited to attend if they wish. For information, please contact Admissions at (575) 234-9221.

First Time Student

Qualifications for undergraduate admission to SENMC include the following:

Complete the undergraduate admission application available online at https://senmc.edu/admissions/

Submit Official Transcript(s)

A student who has graduated from any U.S. high school or who earned a high school equivalency that is accredited by a regional accrediting association or approved by a state department of education or state universities will be required to send an official high school transcript, GED, or state approved high school equivalency to the Admissions Office.

A student who has attended other colleges or universities 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.

If SENMC has reason to believe that the high school transcript is not valid, the institution may check with the high school to confirm the validity of the student's transcript; and confirm with the relevant department or agency in the state in which the secondary school is located that the secondary school is recognized as a provider of secondary school education.

Note: Unofficial transcripts can be accepted as a Tentative Admit. If official transcripts are not received, students will be admitted as "Tentative Conditional Admit" to allow additional time for transcripts to be received. If official transcripts are not received by the date set for conditional enrollment, the student will not be able to register for the next semester.

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, or who are transient or visiting students. Courses taken in this status may not be used to meet college admission requirements. Students who wish to take a course without a graded credit may choose to audit courses. Students on non-degree status are ineligible to receive financial aid or student employment; nor are they eligible to participate in student government. 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 college-level courses. Non-degree students are subject to the same university regulations as regular students.

Changing from Non-Degree Status

A non-degree student in good academic standing at SENMC must submit a formal admissions application for a change of status from non-degree to degree seeking. Requirements to regular admission must be met.

Returning Re-Admit

Former students who have been out of school for more one year are required to make a formal application for readmission. Applications should be submitted to the Admissions Office 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 of registration. Admission status at the time of readmission will normally be determined by previous SENMC academic standing. However, academic performance at other institutions attended during the applicant's absence from SENMC may be taken into consideration in determining the student's admission status.

Transfer Students

Transfer students from other colleges or universities who have a GPA less than a 2.0 may be admitted on probation. Students who transfer less than 30 credit hours must meet the first-time freshman admission requirement. Transfer students follow the same procedures as those outlined under "Learn How to Apply." Official transcripts from all colleges and/or universities previously attended must be sent directly to the SENMC Admissions Office by the registrar of each college or educational institution.

Coursework from non-accredited institutions may be evaluated by the Office of the Registrar on case-by-case basis. The student should initiate the request for evaluation of this coursework with the SENMC Office of the Registrar. If approved, coursework will be applied toward certificate or associate degree completion.

A student who conceals the fact that they have attended another college or university and who has not had transcripts submitted by each institution previously attended—whether or not credit was earned—may be subject to immediate suspension.

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 or visiting Nursing. 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.
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 SENMC. Under the Dual Credit Master Agreement between SENMC 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 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 SENMC 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 office at Dual Credit or (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) 234-3313.

Early Admission (Home-School Student/in-progress GED)

The early admit program gives home school and students enrolled in a GED program the opportunity to take college courses that are nonapproved 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 SENMC. In addition, for the home school student 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 expected date the student will graduate 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.

Admission Application Materials

All documents submitted as part of the admission process become property of SENMC and will not be returned to the student.

Admissions Office Contact Information

For more information, contact: admissions@senmc.edu or (575) 234-9221.

Admissions Office, Room 111
Southeast New Mexico College
1500 University Drive
Carlsbad, NM 88220

Financial Aid & Scholarship Services

SENMC Financial Aid Office

Southeast New Mexico College Financial Aid Office administers a broad spectrum of grants, loans, scholarships and work-study funding in an attempt to meet the financial need of SENMC students.

SENMC's Financial Aid Office 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 the SENMC Financial Aid Office 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) at https://studentaid.gov/h/apply-for-aid/fafsa every year. The information reported on FAFSA is designed to determine, in accordance with state and federal guidelines, what the student's Student Aid Index (SAI) is for amount of eligibility of grants and direct loans. Some of the factors that determine SAI are:

1. 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.

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.

SENMC 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 the SENMC Financial Aid Office at 575-234-9226 or visit the SENMC scholarship website at https://senmc.edu/financial-aid/scholarships.html.

To be considered for most scholarships at SENMC for which you may be eligible you are required to apply online through https://senmc.edu/documents/scholarships/senmc-scholarship-application.pdf.

SENMC Financial Aid Office Contact Information

Financial Aid Office, Room 107
1500 University Drive
Carlsbad, NM, 88220
Phone: (575) 234-9225
financialaid@senmc.edu

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 test (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 (Drops) 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. Generally, grants do not have to be repaid. For more information, contact the SENMC Financial Aid Office or visit the college's financial aid website at: https://senmc.edu/financial-aid/.

FEDERAL DIRECT LOANS

Students must complete and submit a FAFSA application every year if they want to be considered for a Federal Direct Loan (or student loan). There are two types of loans that are available to students known as the Federal Subsidized Direct Loan and the Federal Direct Unsubsidized Loan.

FEDERAL DIRECT SUBSIDIZED LOAN

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.

FEDERAL DIRECT UNSUBSIDIZED LOAN

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 will be required to complete an online entrance counseling session and a master promissory note. Students will also be required to complete an annual Student Loan Acknowledgment before loan funds can be issued to the student.

An exit counseling requirement must also be met once a student loan recipient graduates or withdraws (drops) from the school. Failure to complete this requirement may result in a delay in receiving a transcript or diploma.

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

Student loan requirement can be met by going to https://studentaid.gov/understand-aid/types/loans/subsidized-unsubsidized. *Please note that electronic notices will be sent to the school upon completion of each requirement.*

WORK-STUDY PROGRAMS

The Federal and State Work-Study Programs provide funds for part-time employment opportunities for eligible students and allows students the ability to work no more than 20 hours per week earning at least a minimum wage. It is possible that you may earn more depending on the type of work you do and the skills required for the position. Work-study awards are based on early FAFSA submission, financial need as determined by FAFSA, and available funding. Students may contact the Financial Aid Office if they have questions or need additional information by contacting us at 575-234-9225 or email financialaid@senmc.edu.

Satisfactory Academic Progress

Federal regulations require all students receiving financial aid to meet Satisfactory Academic Progress in order to maintain eligibility for financial aid. The Financial Aid Office will review all financial aid recipients three times a year (end of Fall term, end of Spring term, and end of Summer term). The review will measure both qualitative (GPA) and quantitative (completion rate) standards. Financial aid awards include state and federal grants, federal direct loans, state and federal workstudy.

When evaluating Satisfactory Academic Progress (SAP), all terms of enrollment will be evaluated regardless of whether the student received financial aid during those terms. For transfer students, only those credits that are transferred to Southeast New Mexico College and counted towards a degree program will be counted toward the Timeframe and when calculating Completion Rate.

All the satisfactory academic progress standards for students applying for and receiving financial aid, excluding academic suspensions, are established and monitored by the Financial Aid Office. Academic suspension standards are established and monitored by the Registrar.

NOTES OF IMPORTANCE:

- Federal regulations do not allow rounding of financial aid SAP standards.
- The financial aid SAP standards are not the same as SENMC's Academic Suspension Standards.
- Failing grades, withdrawals and incompletes will reduce a student's completion ratio as well as counting against maximum hours.
- Repeated courses count as attempted hours each time a student registers for them. Also, each course is counted in the student's financial aid GPA requirement.
- Academic renewal hours count toward all components of the SAP policy.
- Students who are suspended academically or choose not to attend because of SAP Suspension will not be automatically eligible for financial aid upon their return. Absence does not restore eligibility for financial aid. It remains the responsibility of the student to be knowledgeable of their SAP standard when returning to school after dismissal or choosing not to return because of SAP Suspension.

- Grade changes require students to submit a written request to have SAP recalculated after confirmation has been received that grade change has been posted to academic history.
- Summer Term Courses – all hours attempted and completed in the summer term are treated as any other semester hours in determining SAP status. SAP will be checked following the summer term as well.
- Audit Courses – students are not eligible to receive financial aid for audit courses. Audited courses are not included in hours attempted or earned for SAP determination.
- Financial aid will not be provided for certain courses taken by audit, credit hours earned by placement tests (CR), and Continuing Education (CE) courses.

Elements of Financial Aid Satisfactory Academic Progress:

GRADE POINT AVERAGE (GPA) REQUIREMENT (QUALITATIVE)

- Students must maintain a 2.0 cumulative GPA or greater on all hours attempted at SENMC.

COMPLETION RATE REQUIREMENT (QUANTITATIVE): ***PACE OF PROGRESSION TO ENSURE COMPLETION WITHIN THE MAXIMUM TIME FRAME.***

- Students must complete 70% of all hours attempted. Grades of A's, B's, C's and D's will count as passed credits.
- All students are required to pass and complete 70% of all classes attempted. (Student will be ineligible for financial aid until completion rate is 70% or greater or an appeal for financial aid has been approved. Grades of I, RR, F, W, and U will be considered hours attempted but not completed.)

MAXIMUM TIME FRAME- PACE OF PROGRESSION

- Students receiving financial aid must complete their program of study within a reasonable time frame. The maximum time frame is 150% of the published length of the academic program or certificate (transfer credit hours counted towards degree program will be included). Limited developmental coursework will not be counted in the maximum time frame.
- Example: Associate of Arts = 60 hours x 150% = 90 hours.
  • 90 credit hours is the maximum number of hours allowed by financial aid.

Consequences of not Meeting Satisfactory Academic Progress (SAP):

Failure to meet one or more of the established financial aid standards of Satisfactory Academic Progress will make a student ineligible for financial aid. Students who have their financial aid revoked due to the failure to meet the SAP standards will remain ineligible until such time that they are able to meet the cumulative financial aid SAP standards. Those students will be responsible for payment of their own tuition and fees. In the following provisions, "warning" , "suspension" or " probation" means financial aid warning, suspension, or probation not academic warning, suspension, or probation.

1. Financial Aid Warning – A status assigned to a student who fails to make satisfactory academic progress at a school that evaluates academic progress at the end of each payment period and/or term, and chooses to allow students who fail its progress standards to continue to receive aid. If the student has not returned to satisfactory standing after this additional semester, he or she will be suspended from further financial assistance until the satisfactory progress standards are met.
   a. NOTE – Because there are multiple components included in SAP, it is possible for a student to be placed in a warning status multiple times, for the same or different reason. Students, however, *cannot* be in a warning status for consecutive terms.
2. Financial Aid Suspension – If, after being placed on financial aid warning status, a student fails to meet the SAP standards of a cumulative 2.0 GPA and 70% completion rate, he or she will be placed on Financial Aid Suspension and will immediately lose financial aid eligibility.
3. Financial Aid Probation (W-STIPS) – When a student fails to make SAP and who has successfully appealed and has had eligibility for financial aid reinstated with an academic plan.
4. Maximum Time Frame Suspension (Pace of Progression) – Students must attain their degree on or before 150% of the published credits needed for a certificate or an associate degree.

If a student fails to meet the Maximum Time Frame standards, they will be placed on Maximum Time Frame Suspension and will immediately lose financial aid eligibility.

COMPLETE DEGREE OR CHANGE OF MAJOR

Credit hours obtained in a completed degree (i.e., a certificate, associates, etc.) will affect a student's maximum timeframe. Students who change majors more than once will also have the attempted credit hours from the previous major count against the maximum time frame.

Appeals

Students that fall below the satisfactory academic progress requirements have the right to appeal their ineligibility for Financial Aid. All appeals are reviewed for extenuating circumstances by the Financial Aid Appeals Committee and/or Financial Aid Advisor.

Financial Aid appeals must contain the following documentation:

1. The student must complete the Appeal for Financial Aid and/ or Scholarships form, describing in detail, all extenuating circumstance(s) that prevented the student from meeting the Financial Aid Satisfactory Academic requirements for the most recent semester. If the student's academic transcript indicates that the student had more than one difficult semester, the student must address the circumstance(s) for each semester.
2. The student must provide information about why he/she failed to make SAP, and what has changed in the student's situation that would allow him/her to demonstrate satisfactory academic progress at the next evaluation.
3. Students should attach any documentation that is relevant to their circumstances, including supporting letters from counselors, doctors, ministers, and/or other appropriate third parties. For example, if the student had an illness that prevented them from attending classes, the student should provide a doctor's note or medical billing statement as verification of illness.

4. The FA Appeals Committee/FA Advisor will act on the appeal in a timely manner, and if approved, financial aid eligibility may be reinstated for one additional semester after which the student must return to satisfactory academic standing. The Financial Aid Appeals Committee/FA Advisor may also require an academic plan that must be followed if returning to good standing is not possible in one semester's time. If students who have previously been placed on suspension subsequently fail to meet either of the two standards, future eligibility will be immediately suspended. The student may also appeal this suspension. If mitigating circumstances do not exist, the student may secure alternative funding until the satisfactory academic requirements (see above) have once again been met.
5. Students exceeding the maximum timeframe rule and are pursuing a subsequent degree will need to explain in detail how the subsequent degree will benefit the students career and any mitigating circumstances surrounding their intent to pursue a subsequent degree.

Students are encouraged to access the applicable forms at senmc.edu or in person at the Financial Aid Office. Appeals may be submitted through their mySENMC account. Forms may also be submitted by email or in person to the Financial Aid Office.

All appeals must be submitted to the Financial Aid Office by the deadline date which is two weeks after the semester's census date of the student's enrollment period. Appeals submitted after this deadline will be returned to the student.

Once a decision has been made on the appeal and the documentation provided, the student is to be notified of the committee's/FA Advisor decision via SENMC email. If a student has a balance with Accounts Receivable, they should make payment arrangements while waiting on a decision, in case of a denial. **Decisions rendered by the Financial Aid Appeals Committee/FA Advisor are final**.

ACADEMIC PLAN AGREEMENT

Students will be required to visit with their Financial Aid Advisor in order to obtain their personalized Academic Plan Agreement. Failure to meet the terms and conditions of the academic plan will result in suspension from future Financial Aid eligibility.

ACADEMIC PLAN STATUS/PROBATION (W-STIPS)

Students who have had an appeal approved will be placed on an Academic Plan. The student will be considered for financial aid during the semester for which the student has applied and is otherwise eligible.

Students who are able to meet the minimum requirements of SAP within one term will receive an email listing the requirements of their Academic Plan Agreement. Students who need 2 or more terms to meet the minimum requirements of SAP will be required to meet with a FA Advisor and sign a copy of the Academic Plan Agreement.

The Academic Plan Agreement will be reevaluated by the Financial Aid Advisor at the end of each semester. Students may regain eligibility to receive financial aid for the next semester of enrollment by either:

1. Completing the semester with grades that bring the student into compliance with financial aid policies; OR
2. Completing the specific requirements of the Academic Plan Agreement. If the academic plan is required for more than one semester, the terms must be met for each semester of enrollment until the student has returned to the minimum standards as defined within the SENMC's SAP policy.

If the student again fails to meet the cumulative satisfactory progress standards at the end of one semester, they will be placed on Financial Aid Suspension.

Timeframe Requirements – Maximum Timeframe and Second Degree Seeking

MAXIMUM TIME FRAME (PACE OF PROGRESSION)

Students, who have exceeded the maximum timeframe for their declared program of study, must submit the Appeal for Financial Aid and/or Scholarships Form. This includes students returning to SENMC for a second or subsequent degree and are in violation of the Maximum Time Frame standard. Appeals need to be submitted to the Office of Financial Aid.

Students whose degree program requires more than the allowable credit hours within their grade level can submit a copy of their Degree Audit for review. This will not be counted as an Appeal submission.

Scenario: Tim is a Nursing student who has earned 91 attempted credit hours and per his degree audit, the program requires 70 credit hours. Based on the Time Frame calculation, Tim is still within his allowable Time Frame for his degree program making him eligible for Title IV funding.

His SAP status would be updated from suspension to good and a note needs to be made in the system: 70 (150%) = 105 attempted credit hours.

Transfer students who have transferred from outside institutions and have exceed the Maximum Time Frame standard must submit a copy of their Degree Audit in order to ensure that only transfer credit hours counted towards their program will be counted within their allowable Time Frame. This will not be counted as an Appeal submission.

Scenario: Samantha transferred to SENMC from an outside institution and 60 transfer credit hours were recorded on her academic record. She has also earned 50 attempted credit hours at SENMC, calculating her Time Frame at 110 attempted credit hours. Based on her Degree Audit, only 30 transfer credit hours are actually being counted towards her degree program, calculating her true attempted credit hours at 80 credit hours and making her eligible for Title IV funding.

Her SAP status would be updated from suspension to good and a note needs to be made in the system: 30 Transfer credit hours that apply to degree + 50 attempted credit hours = 80 total attempted credit hours.

Students who have changed their degree program only once within their grade level are eligible to have their Time Frame reset and receive financial aid for the remaining courses left to complete degree program. A copy of the Degree Audit must be submitted along with a letter from their academic advisor listing the remaining courses needed to complete the program.

Scenario: Jacob was first admitted to SENMC as an Associate of Arts Major, but then in his sophomore year decided that he wanted to become a teacher and changed his degree program to Education.

This has caused him to exceed his allowable Time Frame for his grade level due to the extra program requirements needed to become a teacher. The Financial Advisor has received a copy of the Degree Audit and letter from academic advisor listing the remaining courses the student has left to complete degree.

Student's SAP status would be updated from suspension to warning with stipulations and a note needs to be made. Student would also need to sign an academic plan, because the FA Advisor will need to track the student's courses each term and the student would need to complete each term with no W's, I's, F's, U's, and RR's.

Credit remedial courses, up to 30 credits, may be deducted from the total number of credits attempted when calculating timeframe since they do not count as a credit toward a degree; but may be required and taken within an eligible program.

An academic plan will be used for maximum time frame appeals that are approved for extenuating circumstances; this also includes second degree seeking students.

Examples of time frame maximums for most programs are listed below:

1. Certificate
   a. 36 Attempted Credits
2. Associate Degree
   a. 90 Attempted Credits

SECOND DEGREE STUDENTS

Students who have completed a pace of progression and have earned an Associate's Degree and wish to attempt a second degree at the same level, e.g., two associate degrees, will need to submit an appeal if the student has exceeded the maximum time frame standard within their initial degree. Within the appeal, the student will need to provide what extenuating circumstances are present and why they need to pursue the second degree. The student will also need to provide examples of how the second degree will benefit their career.

Students who are submitting an appeal will also need to submit a form with a signed statement for timeframe from their Academic Advisor listing the required courses remaining to complete their degree. The Academic Advisor must state the number of credit hours required for the degree and how many credits are remaining to complete the degree. The Financial Aid Committee/FA Advisor will review the form and determine the total number of maximum allowable attempted credits hours for the student's second degree program.

- Second Degree seeking students will need to maintain a 2.0 cumulative GPA and 70% completion rate.
- If the student's registered courses do not match the information listed on the document, they will be ineligible to receive financial aid.

Adjusted Credit Option

Students granted the Adjusted Credit Option (ACO) by SENMC will have to have their SAP separately calculated for Time Frame, Completion Rate, and GPA. Federal regulations do not allow a student's SAP to be calculated based on adjusted GPA, time frame or completion rate if Academic Amnesty has been applied to the student's records.

When evaluating a student with an ACO, the financial aid advisor must calculate their completion rate as would be done for any other student (all credits completed divided by all credits attempted). Time frame will be evaluated by adding all credits attempted at SENMC plus any transfer credits accepted at SENMC. For GPA, the actual non-adjusted cumulative GPA must be determined without any consideration of the ACO and the non-adjusted cumulative GPA must be used for purposes of evaluating SAP requirements. These students will be coded with ACO until reviewed.

Graduate Outcomes

Graduate Outcomes

Upon graduation, students of SENMC 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, SENMC 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**. Exam is proctored in the first two weeks of March. 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

Who is considered an International Student?

If you live outside the U.S., or are not a U.S. citizen, you may be an international student. For admissions purposes, anyone who has completed their most recent degree or credential at an institution outside the U.S. is considered to be an international student.

Admissions

International students may apply for admissions to take online courses or in person courses and must meet admissions requirements. All transcripts from a foreign country must be evaluated and translated into English.

Student Visas

SENMC is not an I-20 certificate issuing institution.

Transfer Credits

For degree seeking students SENMC recommends SpanTran: TEC (https://spantran.com/) for high school and college transcript evaluations

Military and Veterans Programs (MVP)

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

- Affordable, Carlsbad-resident tuition rates for active-duty military personnel and dependents living at regional military installations
- Affordable, Carlsbad-resident tuition rates for veterans receiving U.S. Department of Veterans Affairs education benefits
- Easily transferable credits that count toward certificates and degrees at SENMC
- Courses taught in-person and online with innovative technology and course delivery methods
- Student advocacy at every level, from admissions to graduation
- Resource materials from a variety of veteran and military service organizations
- Connect with student organizations.
- A tradition of quality education.

SENMC certificate and degree programs are approved for VA certification by the State Approving Agency Director at the New Mexico Department of Veteran Services. Military and Veteran students may be eligible to receive education benefits from the U.S. Department of Veterans' Affairs (VA), and may contact the VA at 1 (888) 442-4551 or visit https://www.va.gov/education/ to apply. For further information, contact the SENMC VA Office, located in the Main building in the Financial Aid Office.

Tuition Rates and Waivers

Active-Duty

Active-duty military personnel (Armed Forces) stationed in New Mexico or or reside within a 135-mile radius of SENMC may complete a Carlsbad Resident Tuition Application to qualify for Carlsbad resident tuition. Spouses and minor children of active duty personnel who are stationed in New Mexico or reside within a 135 miles radius of SENMC who are not otherwise entitled to claim in-state residency, may apply for Carlsbad resident tuition by submitting a Carlsbad Resident Tuition Application to the SENMC VA Office. Applications are available through the VA 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 Carlsbad 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. To apply, students who are eligible must complete the Carlsbad Resident Tuition Application and submit to the SENMC VA Office. Applications are available through the SENMC VA Office.

Veterans

Veterans receiving U.S. Department of Veterans Affairs education benefits are eligible for Carlsbad resident tuition through the Veterans In-State Tuition Act by submitting a Carlsbad Resident Tuition Application. For further information concerning approved programs and application process, eligible persons should contact the SENMC VA 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® Active Duty (CH30)
- Dependents (CH35)
- Montgomery GI Bill® Selected Reserve (CH1606)

Regulations

Note: These regulations apply to SENMC 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 New Mexico Department of Veteran Services and the U.S. Department of Veterans Affairs (VA) have approved SENMC 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 SENMC VA Office each semester for continued certification.

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

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

Credit for Military Service

Southeast New Mexico College 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. One of the criteria for approval of any school for Veterans' training is that it reviews prior credit and grant credit as appropriate to a VA student's current program. This is found in Title 38, Code of Federal Regulations, Sections 21.4253(d)(3) and 21.4254(C)(4). In essence, this requires every approved school to have and enforce a policy with regard to transfer courses, credits, and previous experience. 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 SENMC 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 may begin the appeal process by submitting a written statement of appeal to the Registrar's Office. The complete appeal process policy can be obtained by contacting the Registrar's Office.

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 Registrar's Office. 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 Southeast New Mexico College 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 (CCAF) transcripts. Course equivalencies and credit hours awarded for a particular SENMC 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 for clarification.

Tuition Assistance

Federal Tuition Assistance (TA) is a benefit paid to eligible members of the Air Force, Army, Coast Guard, Marine Corps, Space Force 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 is authorized for a one-degree program and cannot be used for a 2nd equivalent or lower degree. TA must be requested and approved prior to the start date of the course and is paid directly to the school any time after the Last Day to Unregister without "W" (100% refund). Each service has its own criteria for eligibility, obligated service, the application process, and restrictions.

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

Please be aware of our admission and registration process:

1. Service members must apply online to be admitted,
2. Login to my.SENMC.edu to register for classes, and
3. Create an account and Request TA through their service online portal. Links to the individual service's online portals can be obtained by contacting the SENMC VA Office.

It is important to request TA for the same class and section number as enrolled in SENMC for tuition and grading purposes. Only enrollments requested and approved through their service online portal will be eligible for TA. Contact the SENMC VA Office for additional assistance at (575) 234-9226.

Military Drop (Withdrawal)

The following steps must be taken by all Southeast New Mexico College students called up for active duty who wish to drop (withdraw) from their classes:

1. SENMC VA Office: VA student ordered to Active Duty must provide a copy of orders to the SENMC VA Office and the SENMC Registrar's Office. To assist in reporting accurate information to the VA Regional Office, student should also provide, in writing, the last day of class attendance.
2. SENMC Registrar's Office: All students presenting their orders to the Registrar's Office will receive a military drop (withdrawal) from classes and a full tuition and fees refund for that semester.
3. 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 SENMC. Suspension will be reported to the VA.

If the college 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 college will not release any academic records on the veteran until such time as the veteran has reimbursed SENMC for funds drawn in violation of those requirements.

A student receiving VA education benefits who is pursuing a degree program offered by Southeast New Mexico College 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 to the college for an over-payment.

Resources for Students

Responsibility of Veteran Students

Students must be pursuing a certificate or 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. Students must meet with their academic advisor for registration each semester prior to certification. For continued certification, students must submit a Student Course Schedule to the VA Office every semester.

Veterans must notify the VA Office when any of the following occurs:

- Unregistering or adding course(s)
- Dropping (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 unregistered or dropped (withdrawn) from
- Classes that are not part of the veteran's program (major) curriculum

Allowing Veterans to Attend or Participate in Courses Pending VA Payment

Background

Background Section 103 of Public Law (PL) 115-407, 'Veterans Benefits and Transition Act of 2018,' amends Title 38 US Code 3679 by adding a new subsection (e) that requires disapproval of courses of education, beginning August 1, 2019, at any educational institution that does not have a policy in place that will allow an individual to attend or participate in a course of education, pending VA payment, providing the individual submits a certificate of eligibility for entitlement to educational assistance under Chapter 31 or 33.

Pending Payment Compliance

In accordance with Title 38 US Code 3679(e), Southeast New Mexico College adopts the following additional provisions for any students using U.S. Department of Veterans Affairs (VA) Post-9/11 G.I. Bill ® (Ch. 33) or Vocational Rehabilitation & Employment (Ch. 31) benefits, while payment to the institution is pending from VA. Southeast New Mexico College will not:

- Prevent the student's enrollment;
- Assess a late penalty fee to the student;
- Require the student to secure alternative or additional funding;
- Deny the student access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

However, to qualify for this provision, such students may be required to:

- Produce the VA Certificate of Eligibility (COE) by the first day of class;
- Provide a written request to be certified;
- Provide additional information needed to properly certify the enrollment as described in other institutional policies

GI Bill® 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 https://www.benefits.va.gov/gibill.

SENMC Military & Veterans Contact Information

Financial Aid Office, Room 107
1500 University Drive
Carlsbad, NM, 88220
Phone: (575) 234-9226
financialaid@senmc.edu

Recognition of Academic Achievement

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

Attendance at Commencement

The Registrar 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 Registrar) 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 SENMC graduate. In order to be awarded a degree, a student must fulfill the institution and program requirements in the catalog of record for the student. The degree will reflect the graduation date from the application for degree in term that all the degree requirements were met.

Applying for a Certificate or an Associate Degree

Eligible students are required to submit an application for a certificate or associate degree by the deadline as published in the Schedule of Classes for the semester. It is recommended that students print a certificate or degree audit through their my.SENMC.edu account and have it reviewed by an academic advisor 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.

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 eight years old when requirements are met.

Recognition of Academic Achievement

Graduation with Honors

- SENMC graduates with a GPA of 3.5 or higher are recognized as Graduate with Honors.
- SENMC graduates with a GPA of 3.75 or higher are recognized as Graduate with High Honors.

President's Honor List Semester Report of Academic Achievement

Following the close of the semester, the Registrar's 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 for the term with a term GPA of 3.5 or higher.

Repeating Courses

A student may repeat a course in which a D or F grade has been earned. A computable grade (excluding I, W, 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 attempted/earned hours.

Repeated courses count as attempted hours each time a student registers for them for financial aid satisfactory academic progress (SAP) calculation.

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 SENMC.

Return of Title IV Funds

Process Overview and Applicability

The federal government mandates that students who drop (withdraw) or fail to complete all scheduled classes within a term may only keep the financial aid they have "earned" up to the time of the drop (withdrawal). Any unearned aid must be returned regardless if it has already been disbursed. This situation could result in the student owing financial aid funds to the university, government, or both. The higher number of class days completed, the lower the amount of financial aid that must be returned.

Policy

Students who receive financial aid funds and subsequently drop (withdraw) from the same term (for any reason) will be required to have a Return of Title IV calculation processed (R2T4). Financial Aid is awarded to a student under the assumption that the student will attend school for the entire period of enrollment for which the assistance is awarded.

Once a student has completed more than 60% of their scheduled period of enrollment during a semester, the student is allowed to keep 100% of aid even if a drop (withdrawal) occurs after that point. However, you must still determine whether the student is eligible for a post-drop (withdrawal) disbursement.

If a student ceases attendance (drops or withdraws) from all their Title IV eligible courses and is only enrolled in non-Title IV eligible courses during their period of enrollment, the student must be considered a withdraw for Title IV purposes. Non-Title IV courses include ones that a student is auditing; completing requirements for a course they previously received an "Incomplete", or are repeating.

Types of withdrawals are:

1. Official Drop (Withdrawal) – An official drop (withdrawal) is one where the student has provided notice of their intent to cease attending school. A student is also considered an official drop (withdrawal) if they drop or withdraw from all current classes in a specific term, but are still enrolled in upcoming module courses (mini sessions or short courses) in the same term and have not informed in writing to the Financial Aid Office that they will be attending those courses.
2. Unofficial Drop (Withdrawal) – An unofficial drop (withdrawal) is one where we have not received notice from the student that the student has ceased attending school. These students are found when the period of enrollment has ended and grades have been posted to the students account. If a student receives all non-passing grades, they are considered to be an unofficial drop (withdrawal).
3. Drop (Withdrawal) after rescission of Official Notification – a student may provide official notification of their intent to drop (withdraw) and then change their mind. To allow a student to rescind their intent to drop (withdraw) for purposes of the R2T4 calculation, the student must provide a written statement stating their intent to remain in academic attendance through the end of the period of enrollment. If the student subsequently withdraws after rescinding an intent to drop (withdraw), the drop (withdrawal) date is the date the student first provided notification.
4. Retroactive Drop (Withdrawal) – A retroactive drop (withdrawal) refers to a student who is requesting to withdraw from a term that has already been completed.

When it has been determined that a student has dropped (withdrawn), the student is no longer considered to be enrolled and in attendance. Therefore, the student is no longer eligible for an in-school status or inschool deferment, and they must be reported as dropped (withdrawn) in the NSLDS Enrollment reporting.

A student is to begin the official drop (withdrawal) process with SENMC's Registrar. The Registrar will process the drop (withdrawal) with an effective date of when the student first gave notice of their intent to drop (withdraw) regardless of when the student returns the form with the required signatures.

Procedure

The regulations state that students earn their financial aid based on the period of time they were actually enrolled.

The formula to determine the percentage of aid earned is: The number of days completed up to the drop (withdrawal) date divided by the total days in the scheduled period of enrollment or term (any break of five days or more is not counted as part of the days in the term) will equal the percentage of aid earned.

Once a student has completed more than 60% of their scheduled period of enrollment during a semester, the student is allowed to keep 100% of aid even if a drop (withdrawal) occurs after that point.

The Financial Aid Office is responsible for running both the Anthology process and reports weekly to obtain a report listing all students who dropped (withdrew) during the week prior. If there are any question/ concerns about the validity of the drop (withdrawal) date, all questions are taken to the Registrar for clarification.

Students dropping (withdrawing) from modules must be reviewed to determine if an *Intent to Return* letter needs to be mailed to the student. The student then has 10 days to respond to the letter. If it is determined that the student has added a module "at the time of the drop (withdrawal)" which shows intent to return (DCL GEN-11-14), do not send a letter and do not process a drop (withdrawal).

Responses from student, from their Intent to Return letter, must be a written confirmation, not verbal. Email confirmation is acceptable.

All R2T4 calculations must be completed within 30 days of the student's withdrawal date. The returns of unearned Title IV aid must be returned within 45 days of the student's date of determination. The student is to be sent a letter to their mailing address on record detailing both the type and the dollar amount of aid that is being billed and returned.

Drop (Withdrawal) Date

Policy

The drop (withdrawal) date for official drops (withdrawals) is determined as follows:

When official notification is provided, the student's drop (withdrawal) date is

- The date the student begins the school's official drop (withdrawal) process; OR
- The date that the student otherwise provides the notification; OR
- If both circumstances occur, use the earlier drop (withdrawal) date

The drop (withdrawal) date for unofficial drops (withdrawals) is determined as follows:

When official notification is not provided, the student's drop (withdrawal) date is

- The midpoint of the payment period or period of enrollment, as applicable; OR
- The date that the school determines is related to the circumstance beyond the student's control.

Drop (Withdrawal) after rescission of an official notification

- The student's original drop (withdrawal) date from the previous official notification

Since SENMC is not required to take attendance, the student's last date of attendance at an academically related activity may also be used as a student's drop (withdrawal) date. If the last documented date of attendance at an academically related activity more accurately reflects the student's drop (withdrawal) date, than the date the student began SENMC's drop (withdraw) process or notified SENMC of their intent to drop (withdraw), you may use this date instead.

Procedure
Using the drop (withdrawal) process, the Financial Aid Office is responsible for running the report on weekly basis to obtain a listing of all students who dropped (withdrew) during the week prior. If there are any questions/concerns about the validity of the drop (withdrawal) date, all questions are taken to the Registrar for clarification.

If a student provides official notification of their intent to drop (withdraw) and then changes their mind, the student must provide a written statement stating their intent to remain in academic attendance through the end of the period of enrollment. This written statement must be documented in the student's file. If the student subsequently withdraws after rescinding an intent to drop (withdraw), the drop (withdrawal) date is the date the student first provided notification.

Formula Calculation

Policy
The Financial Aid Office is responsible for ensuring all Return of Title IV Fund calculations are processed and any unearned funds are returned by the Business Office to the appropriate federal program as soon as possible but no later than 45 days from the determination of a student withdrawal.

The Anthology Return of Title IV Funds process, assist in complying with the Title IV regulations for federal financial aid.

The Anthology process enables you to do the following:

- Allow applications of payments to pay off only allowable charges, or to pay off all charges based on user authorization
- Identify original charges as required for the return calculation
- Define break periods with in the period of enrollment
- Identify Title IV recipients who have fully drop (withdrawn)
- Determine the enrollment period and the point in the period that enrollment terminated
- Determine a student's institutional charges, Title IV aid, and percentage of enrollment period completed in order to calculate the Title IV repayment
- Determine the amount of Title IV aid that should be returned to the Title IV programs by the institution and/or student, or post-drop (withdrawal) disbursed to the student
- Refund Title IV credits

Although the Anthology drop (withdrawal) process is the preferred method to ensure accuracy in the R2T4 calculation, if a hand calculation is required, R2T4 worksheets can be found on the Department's Information for Financial Aid Professionals website at: https://fsapartners.ed.gov/knowledge-center/fsa-handbook/fsa-assessments/return-title-iv-funds.

Procedure
Run reports in Anthology to identify drops (withdrawals)

- for students who have drop (withdrawal) records
- for students who dropped current classes but have future module classes they are still enrolled in – these students need to be reviewed to determine whether or not an Intent to Return letter needs to be sent. If the student does not confirm they will be attending, a R2T4 calculation must be processed.
- For students who may have drop (withdrawn) but then re-enrolled
- For students who never attended – this report is run at the end of each semester after grades post and before the unofficial drop (withdrawal) report is run. This report needs to be worked before the unofficial drop (withdrawal) report can be processed. This report provides a list of students that instructors have indicated the student never attended class.
- For students who are unofficial drops (withdrawals) – this report is run at the end of each semester after grades post to identify students who are unofficial drops (withdrawals)
- For students that have had an R2T4 calculation performed but the amount that the calculation shows should have been awarded does not match hat is posted in Anthology. This helps catch potential billing mistakes and ensures that we stay within the 45 day timeline for returning funds.

Verify Attendance in all courses dropped/withdrawn from to ensure student attended all courses they were paid aid for by

- Emailing instructor for Traditional courses.
- Using Canvas lookup on My.SENMC.edu for online courses

The following are institutional charges that must be included in the student's R2T4 when applicable:

- Tuition and Fees
- Books and supplies
- SENMC Fees
- Course Fees

Examples of non-institutional charges that are not to be included in the student's R2T4 calculation include but are not limited to:

- Library fines
- Parking fines
- Health Center fees
- Application fees
- Degree fees

The calculation of earned Title IV funds includes the following Title IV grant and loan funds if they were disbursed or could have been disbursed to a student for the period of time for which the calculations is being performed:

- Pell Grant
- Iraq and Afghanistan Service Grant
- FSEOG
- Direct Loan

For Direct Loans, a second or subsequent disbursement must be counted as aid that could have been disbursed in the R2T4 calculation even if the student is ineligible to receive them as post-drop(withdrawal) disbursement. The disbursement of a Direct Loan for a first-time borrower who drops (withdraws) before the 30th day of the period of enrollment must also be counted as aid that could have been disbursed.

Federal Workstudy funds are not included in the calculation.

Post-Withdrawal Disbursement

Policy

A post-drop (withdrawal) disbursement, a type of late disbursement, applies to a student who withdraws completely from school. The amount of the disbursement is determined by the R2T4 calculation required when a student drops (withdraws) from school. All post-drop (withdrawal) disbursements must also meet late disbursement conditions. A student may not receive any funds as a post-drops (withdrawal) disbursement that we were prohibited from making on or before the date the student dropped (withdrew).

Post-withdrawal disbursements may be credited to a student's account to pay toward current tuition, fees, books, supplies up to the amount of outstanding charges. Authorization must be received from the student either before or after the student's withdrawal date to credit the student's account with Title IV funds for minor prior award year charges of $200 or less.

Procedure

The Financial Aid Office must offer any post-withdrawal disbursements of loan funds within 30 days of the date of the schools determination that the student withdrew and make a post-withdrawal disbursement of grant funds within 45 days of that date.

Any undisbursed Title IV aid for the period that the school uses as the basis for the Return calculation is counted as aid that could have been disbursed as long as the following conditions were met before the date the student became ineligible:

- For all programs, the Department processed a Student Aid Report (SAR) or Institutional Student Information Record (ISIR) with an official Expected Family Contribution (EFC) for the student;
- FSEOG - student was offered an award prior to the withdrawal;
- Direct Loan – student was offered the loan and the loan was originated prior to the withdrawal. A promissory note must be signed for a loan to be included as "aid that could have been disbursed" in a R2T4 calculation. The signature may be obtained after the student withdraws. However, for the loan to be included as aid that could have been disbursed the promissory note must be signed before the school performs the R2T4 calculation.

For Direct Loans, a second or subsequent disbursement must be counted as aid that could have been disbursed in the R2T4 calculation even if the student is ineligible to receive them as post-withdrawal disbursements.

The disbursement of a Direct Loan for a first-time borrower who withdraws before the 30 th day of the period of enrollment must also be counted as aid that could have been disbursed. However, it is prohibited from actually disbursing these loan funds as a post-withdrawal disbursement.

If it has been determined that a student stopped attending all classes and is an unofficial withdrawal, and the 50% point is used as the withdrawal date, the Financial Aid Office must make a separate determination of the date the student lost eligibility before a post-withdrawal disbursement can be made.

It is permitted to credit a student's account with post-withdrawal disbursement of grant funds, without the student's permission, for current tuition, fees, books and supplies up to the amount of outstanding allowable charges.

It is not permitted to automatically credit loan funds to a student's billing account when a student is eligible for a post-withdrawal disbursement of loan funds. The student must be contacted to determine if the loan funds are still needed. This contact must include counseling regarding the obligation to repay loan funds. The student has 14 days in which to respond if a post-withdrawal disbursement of a Direct Loan is wanted. Once the student has been contacted, the final decision on whether or not they requested a post-withdrawal disbursement of loan funds must be documented in the student's file.

Returning Unearned Funds

Policy

Once the R2T4 has been calculated, the Title IV funds are refunded to the programs from which the student received aid during the period of enrollment in the following order, up to the net amount disbursed from each source:

- Unsubsidized Direct Loan
- Subsidized Direct Loan
- Direct Parent PLUS Loans
- Federal Pell Grants
- Iraq and Afghanistan Service Grant
- Federal Supplemental Opportunity Grants (SEOG)

The Financial Aid Office is responsible for ensuring that the return of unearned funds will be done as soon as possible but no later than 45 days from the determination of a student's withdrawal.

The Financial Aid Office will be considered to have returned funds timely as long as one of the following is done no later than 45 days after the date it has been determined that a student withdrew:

- Deposits or transfers the funds into the school's federal funds bank account, and then awards and disburses the funds to another eligible student
- Returns the funds to the Department electronically using the "Refund" function in G5

If it is required to return Direct Loan funds to comply with a regulatory or statutory requirement, even if more than 120 days have elapsed since the disbursement date, the Direct Loan funds must be returned through G5.
Direct Loan funds are returned to the Department following the same procedures that are followed when making other G5 refunds/returns.

Procedure
The Financial Aid Office must ensure the return of unearned funds be returned as soon as possible but no later than 45 days from the determination of a student's withdrawal.

Within 30 days of the date of determinations that the student withdrew, the Financial Aid Office must send a notice to the student's mailing address on record detailing the type of aid and the dollar amount being returned due to the withdrawal.

The Financial Aid Office must refer to the Secretary of the Department of Education, following the procedures required by the Secretary, an overpayment of Title IV HEA grant funds owed by a student as a result of the student's withdrawal from SENMC if:

- The student does not repay the overpayment in full, or enter a repayment agreement with SENMC within the earlier of 45 days from the date the notification of overpayment was mailed to the student; or
- At any time the student fails to meet the terms of the repayment agreement; or
- The student chooses to enter in a repayment agreement with the Secretary

When it has been determined that a student has withdrawn, the student is no longer considered to be enrolled and in attendance. Therefore, the student is no longer eligible for an in-school status or in-school deferment, and it is the responsibility of the Registrar to report the student as withdrawn into the Clearinghouse.

Transfer Students

Requirements for admission as a transfer student include the following:

1. Apply for admission. For an online application click here or request a paper form from the Student Services Office.
2. 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:
   SENMC
   ATTN: Admissions Office
   1500 University Drive
   Carlsbad, NM 88220
3. 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 vocational programs.
4. Meet with your academic advisor before registering to receive assistance with choice or major, course information, degree plans and proper course selection.
5. Enter registration information via the my.senmc.edu student portal and pay, or make arrangements to pay, applicable tuition and fees in the Business Office.

Transcripts

Transfer students must have official transcripts forwarded directly to the 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. SENMC will uphold academic and judicial suspensions from other colleges and universities. TEst

Transfer of Credits at SENMC

SENMC 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 SENMC, credits will be matched for coursework completed with a grade of D- or better. However, some programs require courses with a grade of C- or higher. Accepted transfer credits are not included in the calculation of the GPA. Acceptance of transfer credits by the College does not guarantee those courses will satisfy specific degree or certificate requirements.

Evaluation of Transfer Credits

Once a student has been admitted to SENMC, an evaluation of credits on a course-by-course basis is conducted by the Registrar's Office. Courses that require departmental approval are sent to the department chair for review. The department chair approves those transfer courses that are acceptable toward a degree or a certificate. Credits from nonaccredited institutions will be evaluated by the registrar on case-by-case. Courses that are transferred and are part of the NMHED Common Course Numbering Matrix are accepted according to NMAC 5.55.5.

Transferring Courses to Fulfill the New Mexico General Education Curriculum

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, approved general education 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.

The core matrix of approved courses guaranteed to transfer and meet general education curriculum requirements at any New Mexico college or university can be found on the New Mexico Higher Education Department web site on the New Mexico General Education Curriculum page. Courses are listed by institution, whether university or community college, under each of the seven content areas. The courses for Southeast New Mexico College are listed in the general education 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 31-hour general education core, the total number of hours in a transfer module are approximately 60.

Transfer Credit Appeal Process

If courses are not accepted for transfer by the College the student may appeal this decision. In order for a student to appeal the transfer evaluation they must follow the steps below:

1. File a written appeal with the Registrar's Office, including the information of the course(s) in the appeal.
2. Provide a syllabus from the institution the course was completed at the time the student completed the course.
3. The Registrar's Office will review within in 30 days of receiving the written appeal.
4. If denied by the Registrar the student can then file an appeal with the Vice President of Academic Affairs.

If the student is denied a second time they may appeal to the New Mexico Higher Education Department at https://hed.nm.gov/students-parents/student-complaints.

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 College reserves the right to change any of the charges without notice.

Campus Tuition Rates

For a full listing of all tuition rates from SENMC please see the Tuition & Fees page.

Undergraduate Tuition and Required Fees

Course Fees (Fees Assessed per Course)
These fees are approved by the SENMC Board of Trustees and are posted on the SENMC website.

FEE	COST
NA101 Nursing Assistant Theory and Lab	50.00
NA115 Phlebotomist Technician	55.00
NURS146 Common Health Deviations	80.00
NURS156 Basic Nursing Theory and Practice	140.00
NURS157 Maternal/Child Health Deviations	140.00
NURS246 Health Deviations I	140.00
NURS256 Health Deviations II	140.00
SURG230 Professional Readiness	199.00

Payment of Charges

By enrolling in classes at SENMC, 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 SENMC 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). Payments can be made by mail, web, telephone, or in person at the SENMC 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 contact the Business Office. 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 College reserves the right to deny a payment plan to any student who has been negligent in making payments to the College for previous debts. Students with a previous balance greater than $1,000 are prohibited from registering for a term until all previous debts that are due to the College are paid in full.

Tuition Adjustments, Refunds and Forfeitures

Students officially unregistering courses during a semester or term are eligible for a 100-percent refund of tuition and fees through the deadlines listed online. Go to Important Dates for Students. Students dropping (withdrawing) from courses after that deadline will not be eligible for a refund and will remain liable for full tuition and fee charges. Nonattendance does not constitute an official course unregister or drop (withdrawal). All charges due to SENMC 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 college. Should unforeseen circumstances beyond the reasonable control of Southeast New Mexico College 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/College administration.

Payment Plan

For current information, please contact the Business office.

Delinquent and Prior-Term Balances

SENMC reserves the right to cancel the registration of any student who fails to pay, when due, any indebtedness to the institution.

Dishonored Financial Transactions – Checks, Credit Cards, ACH Transactions

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

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.

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 Registrar's Office administers residency. Information on the following programs may be obtained from the Registrar's Office, Admissions Office, the Financial Aid Office, 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 - Out-of-State
- 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 up to 6 credit hours. If registered for more than 6 credits, they will be charged the tuition based upon residency for all registered credit hours. There may be additional required fees such as course or lab fees.

Contact Information

For more information, contact:

SENMC Accounts Receivable
Southeast New Mexico College
1500 University Drive
Carlsbad, New Mexico
Phone: (575) 234-9200
Website

Advising

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.

Career and Job Placement Services

Student Services offers various resources and workshops to help students evaluate and choose potential career opportunities. 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.

Developmental Programs and Services

The mission of the Developmental Education Program at SENMC 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 courses 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 SENMC, 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 LAC for more information regarding specifics for each course section.

Code	Title	Hours
Developmental Reading Courses		
CCDR105 N Fundamentals of Academic Reading	Fundamentals of Academic Reading	3
CCDS109 N Study Skills for Reading	Study Skills for Reading	1-3
CCDR110 N Effective College Reading	Effective College Reading	3
Developmental English Courses		
CCDE105 N Effective Communication Skills	Effective Communication Skills	4
CCDS113 N Study Skills for English	Study Skills for English	1-3
Developmental Math Courses		
CCDM105 N Mathematics Preparation and Pre-Algebra	Mathematics Preparation and Pre-Algebra	5
CCDM114 N Algebra Skills	Algebra Skills	4
Tutorial/Skills Courses		
FYEX1131 Personal Learning Skills I	Personal Learning Skills I *	1-3
FYEX1996 Topics in First Year Experience	Topics in First Year Experience	2
Approved FYEX Elective		1
College Level English Courses		
ENGL1110G Composition I	Composition I**	4
College Level Math Courses		
MATH1134 Fundamentals of Elementary Mathematics I	Fundamentals of Elementary Mathematics I	3
MATH1130G Survey of Mathematics	Survey of Mathematics	3
MATH1215 Intermediate Algebra	Intermediate Algebra	3
MATH1220G College Algebra	College Algebra	3
Approved MATH Elective		3

*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 LAC 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. This course should be taken only by those who either initially "placed" into the course (by placement testing) or by those concurrently enrolled in CCDS 113 N Study Skills for English.

Developmental Courses and Course Sequence

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

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

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

Student Organizations

SENMC Students are invited to participate in the student organizations offered on the SENMC campus. Some clubs may consist of events and activities throughout the semester and are under advisement of SENMC faculty or staff member. For questions please contact Judi Cox-Tindol at (575)234-9335.

American Criminal Justice Association (Beta Alpha Delta):

SENMC 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 CJ skills and knowledge, network with people from all over the United States and further criminal justice professionalism. Membership is open to persons who are enrolled in the criminal justice program at the college and who are currently employed or were at the time of their application employed in an area concerned with the administration of criminal justice, as well as persons honorably retired from a career in an area concerned with the administration of criminal justice.

There are three levels of participation for competition purposes: lower division academic, upper division academic, and professional. For further information, contact Dr. Karima Mourhat at kmourhat@senmc.edu.

Equality Club

Equality club is committed to the wellness and success of all students, faculty, and staff in there expression of gender and sexuality at SENMC. Equality Club meets to provide a safe space to gather and promote advocacy, education and programming within SENMC and the community. Our Mission is to promote diversity and inclusion at SENMC.

STEM Club Description

The STEM Club is dedicated to promoting excellence in academic and professional environments within the Southeast New Mexico College community. Through service projects, educational programs, and social functions, we strive to cultivate a vibrant and supportive community that empowers every student to achieve their highest potential in STEM fields. With the integration of E-Sports, we also provide opportunities for students to explore the intersection of gaming, technology, and STEM-related careers while fostering teamwork and innovation.

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. A one-time fee of $65 is required.

Student Government

The Student Government of SENMC are elected by and represent the student body. During the spring semester, SENMC holds an election and the newly elected members serve during the next academic year (summer sessions excluded). The Student Government coordinates campus activities 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 Government is open to any student meeting the following qualifications: Enrolled in a minimum of 6 semester credits, possessing a 2.0 grade point average or higher, and in good standing with SENMC. Responsibilities of the Associated Students include but are not limited to 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. Students are encouraged to join and actively participate in the student government. For more information, call (575) 234-9335.

Student Nurses Association

The SENMC 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.

Note: This list of Student Organizations could change as students are always welcome to create additional organizations and clubs.

Bookstore

The SENMC Bookstore, located in the main building, is open not only for the campus, but to the surrounding communities of Carlsbad, Loving and Artesia. The bookstore offers a wide variety of fresh, quick snacks and lunch items. For students who need supplies, including flash drives and calculators. The bookstore is well stocked. Campus bookstores always have the best spirit clothing, drinkware and gifts, and SENMC Bookstore is the only store that features SENMC logo items.

The SENMC Bookstore is pleased to welcome the community to our General Reading department. The Bookstore offers, not only best sellers, but new releases which are updated weekly. The Children's section features Caldecott and Newberry award winners. For students needing test preps and Study Aids, the SENMC Bookstore is the place to shop. If bookstore customers need to place a special order, please take advantage of our free special order services.

All textbooks that have been adopted for classes are available in store and online through SENMC Bookstore (https://bookstore.senmc.edu/home/). Textbooks ordered online, requesting store pick up, will be available at the SENMC Bookstore for student convenience.

Learning Assistance Center

The Learning Assistance Center (LAC) provides instructional support for students at SENMC. The goals of the LAC 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 LAC oversees the following:

Services.

- Individual and Group Tutoring: Scheduled academic course assistance by qualified tutors for a wide variety of courses. Visit the LAC for more information. Math tutoring is available for all CCDM and MATH courses.
    - Learning and Study Skills: Assistance with a variety of needs from learning style assessment to time management. Visit the LAC for more information.
    - Test Prep: Tutoring, books and online preparation for Accuplacer, ACT and HESI.

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

For more information about these services or its offerings, call (575) 234-9315, visit the LAC in Room 253 or our website LAC. The LAC hours are 8 a.m. to 5:30 p.m. Monday through Thursday and the hours on Friday are 8 a.m. to 12 noon during the Fall and Spring semesters. Summer hours are determined at the end of the spring semester.

The Learning Technology Center (LTC)

The Learning Technology Center (LTC) is located in Room 211 on the second floor of the Main Building. The LTC operates from Monday to Thursday, 8:00 AM to 5:30 PM, and on Fridays from 8:00 AM to noon. You can contact the office at (575) 234-9259 & 234-9263. The LTC provides technology support for Southeast New Mexico College faculty, staff, and students. Its goals include training faculty and students on the Canvas learning management system, SENMC access portal, and other web technologies for teaching and learning. Additionally, the LTC fosters professional development for faculty and staff, assists faculty in enhancing course design and online learning development, and supports students with technology-related issues. For students, the LTC offers training and support in the following areas:

- Canvas interface and course navigation features.
- Anthology: Lion's Den.
- Setting up SENMC accounts
- Access to SENMC platforms (SENMC email, two-factor authentication)
- Fundamentals of Mobile Learning Devices
- Cloud storage solutions (OneDrive and Google Drive)
- Microsoft 365 applications, including Zoom and Teams, are third-party programs integrated into the suite, along with courses such as Pearson Labs and Cengage Labs, among others. For more information, visit us at https://senmc.edu/ltc/index.html.

SENMC Student Accounts

All students enrolled in credit courses at Southeast New Mexico College receive student account credentials that enable them to log into classroom computers and other computer labs and connect to the Wi-Fi while taking classes. This account also provides students access to server-based storage for their homework. If you are experiencing issues with the my.senmc.edu access portal or Canvas, please call the LTC at 575.234-9259 or email helpdesk@senmc.edu.

Library

A center of academic activity, the SENMC Library (https://senmc.edu/library/) is the first choice for information for students at Southeast New Mexico College (SENMC). 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 five days, 53 hours a week during the fall and spring semesters. Remote access to selected online resources is available to current students, faculty and staff 24/7.

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

Services Offered:

- Student Computer Lab and Printer
- Scanning System
- Study Rooms
- Print and Electronic Resources
- Interlibrary Loans
- Research Assistance
- Library Resource Presentations
- Public Computers (*Business Use Only*)
- Special use equipment (SENMC in-house use only)

Library Hours

Monday: Thursday 7:45 am to 8:00 pm
Friday: 8:00 am to 12:00 pm
Saturday and Sunday: Closed
The library follows the SENMC academic calendar. Hours are modified during summer and student holidays/breaks.

Small Business Development Center

Empowering Small Businesses for Success

The **Small Business Development Center (SBDC) at SENMC** is committed to supporting small business owners and aspiring entrepreneurs with **free, confidential, and expert business counseling** in key areas such as **business planning, market evaluation, financial analysis, management strategies, and loan preparation.**

Our team of qualified professionals provides **personalized, one-on-one counseling** to help individuals successfully **start, manage, and grow** their businesses. Whether you're launching a new venture or looking for solutions to enhance your existing business, we are here to offer **practical insights and strategic support.**

As a proud **resource partner of the U.S. Small Business Administration**, the **Carlsbad SBDC** is part of a statewide network of 20 offices within the **New Mexico SBDC Network**. Through our extensive collaboration with **local, state, and federal partners**, we connect entrepreneurs with **valuable business resources, training programs, and workshops—many of which are free or offered at a low cost.**

Our office is conveniently located on campus at:
📍 **1500 University Drive, Room 223, Carlsbad, NM 88220**

📞 **Contact us today** to learn more about our small business counseling and training opportunities:
(575) 885-9531 | (575) 247-1777

Let us help you turn your business ideas into reality and achieve sustainable success!

Adult Education and High School Equivalency Preparation

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 Southeast New Mexico College; room 207; call (575) 234-9250 or email us at mmcormack@senmc.edu (mccormack@senmc.edu); or MSoto@senmc.edu (msoto@senmc.edu).

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 Southeast New Mexico College, room 227B or call (575) 234-9271.

Community Education

SENMC 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, SENMC 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 SENMC Community Education allows the student to meet other people that share their interest or hobby. If you are interested in teaching a Community Education class, call (575) 234-9268 or visit the Community Education Office in the Main Building, Office 1B.

Service Learning Opportunities

A variety of SENMC 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 SENMC classroom and its many applications. The four pillars of Service Learning are:

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

For more information on Service Learning Opportunities at SENMC call (575) 234-9268 or visit the Community Education Office on campus in office 1B.

SENMC Workforce Development

In alignment with the college's mission and vision, we at SENMC Workforce Development are committed to enhancing lives by connecting individuals to their career aspirations. Whether you're starting out, advancing, or pivoting in your career, our tailored educational and training programs are designed to meet the evolving demands of business and industry.

- **Explore Our Programs**: Visit our website at senmc.edu/workforce to learn more.
- **Stay Informed**: For details on current offerings or to explore potential new training initiatives, reach out to us at:
  - **Phone**: (575) 234-9277
  - **Email**: workforce@senmc.edu

All Programs

AA AA - Associate of Arts Degree

Overview

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.

[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Generate effective written and oral communications for academic and personal success.

2. Evaluate information critically, developing their problem-solving skills, which will strengthen informed decision-making in academic, professional, and personal contexts.

3. Describe and practice ethical behavior and respect for diversity in the world and articulate the importance of civic engagement.

4. Evaluate and utilize information effectively in both digital and traditional formats, to engage critically with a wide range of sources and technologies.

5. Develop academic and career plans to transfer to chosen bachelors degree programs or career paths.

6. Develop quantitative reasoning skills, enabling them to interpret, analyze, and communicate numerical and statistical information effectively in various disciplines.

7. Develop and practice cultural understanding, and aesthetic appreciation of the humanities, creative expression, and fine arts.

Graduation Requirements

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;

Students must complete all College 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.

Required Courses

The Associate of Arts Degree allows students to complete general education requirements for most bachelor degree programs.

Free Form Requirements

GENERAL EDUCATION		
Area I: Communications		
English Composition - Level 1		3-4
ENGL1110G Composition I		
English Composition - Level 2		3
ENGL2210G Professional & Technical Communication or ENGL2221G Writing in the Humanities and Social Science		
Oral Communication		3
Area II: Mathematics		3-4
Area III: Laboratory Science		4
Area IV: Social/Behavioral Sciences		3
Area III: Laboratory Science or Area IV: Social/Behavioral Sciences		3-4
Area V: Humanities		3
Area VI: Creative and Fine Arts		3
Area VII: Flexible (General Education Elective(s))		3-4
INSTITUTIONAL REQUIREMENTS		4-6
FYEX1111 Introduction to College Studies or FYEX1110 First-Year Seminar or HNRS1115 Honors First Year Seminar		
_____		
Choose an Area Study Below		**15**
Area of Study - Psychology		
PSYC1110G Introduction to Psychology		
PSYC2110 Social Psychology		
PSYC2221 Applied Psychology		
PSYC2230 Psychology of Adjustment		
PSYC2370 Cultural Psychology		
Area of Study - General		
General Electives		
ELECTIVES, TO BRING THE TOTAL CREDITS TO 60		10-4
Total Hours		**60**

Curriculum Notes

1. See the General Education section of the catalog for a full list of courses.

2. If institutional requirements are waived additional elective credits will be required.

3. May be waived if student has 30 or more transfer credits.

4. Courses to bring the total credits to 60, no more than 9 credits may be from any combination of: ARTS, ARTH, BOT, FDMA, FYEX, MUSC, NURS, THEA (excluding FYEX 1110, FYEX 1111 and "G" courses). Also, no more than 9 credits of PHED may apply. Additional courses may be required if Institutional requirement(s) are waived.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Associate of Arts Degree - Area of Study General
Total Degree Map Credits
57

Year	Semester	Actual Credits
Year 1	Fall	16 - 19

- ENGL 1110G - Composition I

Actual Credits C or higher required 3 - 4

- Area IV: Social/Behavioral Sciences

Actual Credits - 3

- Area V: Humanities

Actual Credits - 3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1110 - Journeys of Discovery

Actual Credits May be waived if student tests into a higher-level math course. 1 - 3

- MATH 1215 - Intermediate Algebra

Actual Credits - 3

- Electives - All

Actual Credits - 3

Year	Semester	Actual Credits
Year 1	Spring	13

- ENGL 2210G - Professional & Technical Communication
  OR
- ENGL 2221G - Writing in the Humanities and Social Science

Actual Credits - 3

- Area II: Mathematics

	-
Actual Credits	3

- Area III: Laboratory Science

	-
Actual Credits	4

- Electives - All

	-
Actual Credits	3

- Course Set Not Found

	-
Actual Credits	-

Year	Semester	Actual Credits
Year 2	Fall	15 - 16

- COMM 1130G - Public Speaking
  OR
- COMM 1115G - Introduction to Communication

	-
Actual Credits	3

- Area VII: Flexible 3 (General Education Elective)

	-
Actual Credits	3 - 4

- Electives - All

	-
Actual Credits	3

- Electives - All

	-
Actual Credits	3

- Electives - All

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 2	Spring	13 - 9

- Electives - All

	-
Actual Credits	3

- Electives - All

	-
Actual Credits	3

- Electives - All

	-
Actual Credits	3 - 0

- Electives - All

	-
Actual Credits	4 - 3

Degree Map Name
Associate of Arts Degree - Area of Study Psychology
Total Degree Map Credits
57

Year	Semester	Actual Credits
Year 1	Fall	16 - 17

- ENGL 1110G - Composition I

	C or higher required
Actual Credits	3 - 4

- Area IV: Social/Behavioral Sciences

	-
Actual Credits	3

- Area V: Humanities

	-
Actual Credits	3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1110 - Journeys of Discovery

	May be waived if student tests into a higher-level math course.
Actual Credits	1

- MATH 1215 - Intermediate Algebra

	-
Actual Credits	3

- PSYC 1110G - Introduction to Psychology

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 1	Spring	13

- ENGL 2210G - Professional & Technical Communication
  OR
- ENGL 2221G - Writing in the Humanities and Social Science

	-
Actual Credits	3

- Area II: Mathematics

	-
Actual Credits	3

- Area III: Laboratory Science

	-
Actual Credits	4

- Course Set Not Found

	-
Actual Credits	-

- PSYC 2221 - Applied Psychology

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 2	Fall	15

- COMM 1130G - Public Speaking

OR

- COMM 1115G - Introduction to Communication

	-
Actual Credits	3

- Area VII: Flexible 3 (General Education Elective)

	-
Actual Credits	3

- PSYC 2110 - Social Psychology

	-
Actual Credits	3

- Electives - All

	-
Actual Credits	3

- Electives - All

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 2	Spring	13 - 12

- PSYC 2230 - Psychology of Adjustment

	-
Actual Credits	3

- PSYC2370 - Cultural Psychology

	-
Actual Credits	3

- Electives - All

	-
Actual Credits	3

- Electives - All

	-
Actual Credits	4 - 3

AA HI2526 - Heritage Interpretation

Overview

The Heritage Interpretation program at SENMC 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.

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Program Contacts
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Program Outcomes

1. Apply Knowledge of Natural and Cultural Heritage: Student will gain a comprehensive understanding of natural, historical, and cultural heritage, including the significance of various sites, artifacts, and ecosystems and illustrate how heritage is communicated and used in society, understanding the role of heritage in contemporary contexts.

2. Demonstrate Interpretive Skills: Students will learn to create engaging and meaningful interpretive experiences for diverse audiences, using various media and techniques, from a broad range of artifacts, texts, buildings, landscapes, and behaviors of cultures around the world, with an emphasis on our own unique region.

3. Employ Ethical and Inclusive Interpretation Practices: Students will practice ethical interpretation by incorporating diverse perspectives and fostering inclusivity in their coursework, respecting the cultural sensitivities and historical accuracy of the heritage they interpret.

4. Practice Responsible Stewardship of Heritage Resources: Students will understand how to use interpretation as a tool for advocating and supporting the conservation and preservation of heritage sites, exhibiting knowledge of conservation principles and sustainable practices.

Graduation Requirements

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 SENMC.

Required Courses

Associate of Arts

Free Form Requirements

GENERAL EDUCATION		
Area I: Communications English Composition - Level 1 ENGL1110G Composition I (C or higher)		3-4
English Composition - Level 2 ENGL2210G Professional & Technical Communication P or ENGL2221G Writing in the Humanities and Social Science		3
Oral Communication COMM1130G Public Speaking or COMM1115G Introduction to Communication		3
Area II: Mathematics MATH1220G College Algebra (Core Curriculum Requirement)		3
Area III: Laboratory Science ENVS1110G Environmental Science I (L) (Core Curriculum Requirement)		4
Area III: Laboratory Science or Area IV: Social/Behavioral Sciences GEOG1130G Human Geography (Core Curriculum Requirement) or GEOG1110G Physical Geography		3-4
Area IV: Social/Behavioral Sciences POLS1120G American National Government (Core Curriculum Requirement)		3
Area V: Humanities HIST1150G Western Civilization I (Core Curriculum Requirement)		3
Area VI: Creative and Fine Arts		
Area VII: Flexible (General Education Elective(s) LING2110G Introduction to the Study of Language and Linguistics Introduction to the Study of Language and Linguistics (Core Curriculum Requirement)		3
INSTITUTIONAL REQUIREMENTS		4-6
FYEX1111 Introduction to College Studies Introduction to College Studies or FYEX1110 First-Year Seminar First-Year Seminar or HNRS1115 Honors First Year Seminar Honors First Year Seminar		
MATH1215 Intermediate Algebra Intermediate Algebra		
CORE CURRICULUM REQUIREMENTS		
ANTH1115G Introduction to Anthropology Introduction to Anthropology		3
ANTH1136 Introduction to Historic Preservation Introduction to Historic Preservation or ANTH2140G Indigenous Peoples of North America Indigenous Peoples of North America		3
HIST1110G United States History I United States History I		3
HIST1120G United States History II United States History II		3
HIST1160G Western Civilization II Western Civilization II		3
HIST2110 Survey of New Mexico History Survey of New Mexico History		3
PSYC1110G Introduction to Psychology Introduction to Psychology or PSYC2221 Applied Psychology Applied Psychology		3
Electives to bring the total credit to 60 Choose from the following: HIST2996 Topics in History Topics in History SOCI1110G Introduction to Sociology Introduction to Sociology SOCI2261 Issues in Death and Dying Issues in Death and Dying SOCI2310G Contemporary Social Problems Contemporary Social Problems		**4-0**
Total Hours		**60**

Curriculum Notes

1. MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.
2. MATH 1215 Intermediate Algebra is another allowable course; however it will not count towards the General Education Requirements.
3. May be repeated for up to 12 hours.
4. See the General Education section of the catalog for a full list of courses

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Heritage Interpretation AA
Total Degree Map Credits
60

Year	Semester	Actual Credits
Year 1	Fall	16 - 20

- ANTH 1115G - Introduction to Anthropology

Actual Credits -
3

- ENGL 1110G - Composition I

Actual Credits -
3 - 4

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

May be waived if student has 30 or more transfer credits.

Actual Credits 1 - 3

- GEOG 1130G - Human Geography
  OR
- GEOG 1110G - Physical Geography

-

Actual Credits 3 - 4

- HIST 1150G - Western Civilization I

-

Actual Credits 3

- MATH 1215 - Intermediate Algebra

-

Actual Credits 3

Year	Semester	Actual Credits
Year 1	Spring	15

- ANTH 1136 - Introduction to Historic Preservation
  OR
- ANTH 2140G - Indigenous Peoples of North America

-

Actual Credits 3

- ENGL 2210G - Professional & Technical Communication
  OR
- ENGL 2221G - Writing in the Humanities and Social Science

-

Actual Credits 3

- HIST 1160G - Western Civilization II

-

Actual Credits 3

- MATH 1220G - College Algebra

-

Actual Credits 3

- POLS 1120G - American National Government

-

Actual Credits 3

Year	Semester	Actual Credits
Year 2	Fall	13

- COMM 1115G - Introduction to Communication
  OR
- COMM 1130G - Public Speaking

-

Actual Credits 3

- ENVS 1110G - Environmental Science I (L)

-

Actual Credits 4

- HIST 1110G - United States History I

-

Actual Credits 3

- HIST 2110 - Survey of New Mexico History

-

Actual Credits 3

Year	Semester	Actual Credits
Year 2	Spring	16 - 12

- HIST 1120G - United States History II

-

Actual Credits 3

- LING 2110G - Introduction to the Study of Language and Linguistics

-

Actual Credits 3

- PSYC 1110G - Introduction to Psychology
  OR
- PSYC 2221 - Applied Psychology

-

Actual Credits 3

- HIST 2996 - Topics in History
  OR
- SOCI 1110G - Introduction to Sociology
  OR
- SOCI 2261 - Issues in Death and Dying
  OR
- SOCI 2310G - Contemporary Social Problems

-

Actual Credits 3

- Electives - All

-

Actual Credits 4 - 0

AAMTMP25 - Manufacturing Technology Manufacturing Processes

Overview

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Program Contacts

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Program Outcomes

1. Demonstrate knowledge of safety at work in a manufacturing environment lab.

2. Demonstrate the basic knowledge of major manufacturing processes to solve related problems.

3. Identify locate the correct position to drill holes using an edge finder and digital readout and have knowledge about electrical circuits such as AC&DC circuits

4. Demonstrate safely and successfully operate the auto feed controls on the metal lathe.

5. Demonstrate team working skills through assignments.

6. Demonstrate the ability to perform simple cost and time-based process optimization for select manufacturing processes.

Required Courses

Associate of Applied Science

Free Form Requirements

GENERAL EDUCATION		16-17
Course required from Area I, II, III, VII and choose one course form IV, V and VI.		
Area I: Communications		
ENGL1110G Composition I Composition I (Technical Requirement)		
Area II: Mathematics		
Area III: Laboratory Science		
Area IV: Social/Behavioral Sciences		
or Area V: Humanities		
or Area VI: Creative and Fine Arts		
Area VII: Flexible (General Education Elective(s)		
ENGL2210G Professional & Technical Communication Professional & Technical Communication (Technical Requirement		
INSTITUTIONAL REQUIREMENTS		4-6
FYEX1111 Introduction to College Studies Introduction to College Studies		
or FYEX1110 First-Year Seminar First-Year Seminar		
or HNRS1115 Honors First Year Seminar Honors First Year Seminar		
MATH1215 Intermediate Algebra Intermediate Algebra		
TECHNICAL REQUIREMENTS		
BUSA1110 Introduction to Business Introduction to Business		3
or ACCT2120 Principles of Accounting II (Managerial) Principles of Accounting II (Managerial)		
ET120 Computation Software Computation Software		3
ET183 Applied DC Circuits Applied DC Circuits		3
ET183L Applied DC Circuits Lab Applied DC Circuits Lab		1
ET184 Applied AC Circuits Applied AC Circuits		3
ET217 Manufacturing Processes Manufacturing Processes		3
ET217L Manufacturing Processes Lab Manufacturing Processes Lab		1
ELTR2996 Topics in Electricity Special Topics		3
Electives: E T Courses		**20-17**
Total Hours		**60**

Curriculum Notes

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

2. See the General Education section of the catalog for a full list of courses.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Manufacturing Technology Manufacturing Processes - Associate of Applied Science
Total Degree Map Credits
60

Year	Semester	Actual Credits
Year 1	Fall	14 - 17

- E T 120 - Computation Software

Actual Credits - 3

- E T 183 - Applied DC Circuits
- **AND** E T 183L - Applied DC Circuits Lab

Actual Credits - 4

- ENGL 1110G - Composition I

Actual Credits - 3 - 4

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits - 1 - 3

- MATH 1215 - Intermediate Algebra

Actual Credits - 3

Year	Semester	Actual Credits
Year 1	Spring	17

- Area VI: Creative and Fine Arts

Actual Credits - 4

- Area IV: Social/Behavioral Sciences
  OR
- Area V: Humanities
  OR
- Course Set Not Found

Actual Credits - 3

- E T 184 - Applied AC Circuits

Actual Credits - 3

- Electives: E T Courses

Actual Credits - 4

- Electives: E T Courses

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Fall	16

- ENGL 2210G - Professional & Technical Communication

Actual Credits - 3

- E T 217 - Manufacturing Processes
- **AND** E T 217L - Manufacturing Processes Lab

Actual Credits - 4

- ELTR 2996 - Topics in Electricity

Actual Credits - 3

- Electives: E T Courses

Actual Credits - 3

- Electives: E T Courses

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Spring	13 - 10

- Area II: Mathematics

Actual Credits - 3

- BUSA 1110 - Introduction to Business
  OR
- ACCT 2120 - Principles of Accounting II (Managerial)

Actual Credits - 3

- Electives: E T Courses

Actual Credits - 7 - 4

AAS AGRI - Agriculture - Associate of Applied Science

Overview

Associate of Applied Science in Agriculture

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Program Contacts
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Graduation Requirements

Graduation Requirements
A minimum of 15 of the 60 credits for the associate's degree must be completed at SENMC.

Cumulative GPA of 2.00 or higher to graduate

Required Courses

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.

Free Form Requirements

GENERAL EDUCATION	16
Courses are required from Area I, III, IV, VII and choose one course from II, V, or VI.	
Area I: Communications	
ACOM1130G Effective Leadership and Communication in Agriculture Effective Leadership and Communication in Agriculture (Technical Requirement)	
Area III: Laboratory Science	
AGRO1110G Introduction to Plant Science (Lecture & Laboratory) Introduction to Plant Science (Lecture & Laboratory) (Technical Requirement)	
Area IV: Social/Behavioral Sciences	
AEEC2130G Survey of Food and Agricultural Issues Survey of Food and Agricultural Issues (Technical Requirement)	
Area II: Mathematics or Area V: Humanities or Area VI: Creative and Fine Arts	
Area VII: Flexible (General Education Elective(s)	
ECON2110G Macroeconomic Principles Macroeconomic Principles (Technical Requirement) or ECON2120G Microeconomic Principles Microeconomic Principles	
INSTITUTIONAL REQUIREMENTS	4-6
FYEX1111 Introduction to College Studies Introduction to College Studies or FYEX1110 First-Year Seminar First-Year Seminar or HNRS1115 Honors First Year Seminar Honors First Year Seminar	
MATH1215 Intermediate Algebra Intermediate Algebra	
TECHNICAL REQUIREMENTS	
AEEC1110 Introduction to Agricultural Economics and Business Introduction to Agricultural Economics and Business	3
AEEC2110 Principles of Food and Agribusiness Management Principles of Food and Agribusiness Management	3
AGRO2160 Plant Propagation Plant Propagation	3
ANSC1120 Introduction to Animal Science Introduction to Animal Science and ANSC1120L Introduction to Animal Science Laboratory Introduction to Animal Science Laboratory	4
ANSC2330 Animal Production Animal Production	3
AXED1130 Techniques in Agricultural Mechanization Techniques in Agricultural Mechanization	3
BCIS1110 Fundamentals of Information Literacy and Systems Fundamentals of Information Literacy and Systems	3

GENERAL EDUCATION	16
BIOL2610G Principles of Biology: Biodiversity, Ecology, and Evolution Principles of Biology: Biodiversity, Ecology, and Evolution and BIOL2610L Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	4
POLS1120G American National Government American National Government	3
WELD1110 Introduction to Welding Fundamentals Introduction to Welding Fundamentals	3
ELECTIVES, TO BRING THE TOTAL CREDITS TO 60	8-6
Total Hours	**60**

Curriculum Notes

General Education - see General Education section of the catalog for a full list of courses.

General Education/Technical Requirement - course is a technical requirement and must be completed regardless of transfer credit awarded.

Institutional Requirements - if institutional requirements are waived additional elective credits will be required.

FYEX Requirement - may be waived if student has 30 or more transfer credits.

MATH 1215 - may be waived if student tests into a higher-level math course.

Electives - any course which will bring total credits for the degree to 60. Additional courses may be required if Institutional requirement(s) are waived.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Agriculture - Associate of Applied Science
Total Degree Map Credits
60

Year	Semester	Actual Credits
Year 1	Fall	15 - 17

- ANSC 1120 - Introduction to Animal Science
- **AND** ANSC 1120L - Introduction to Animal Science Laboratory

Actual Credits - 4

- ACOM 1130G - Effective Leadership and Communication in Agriculture

Actual Credits - 3

- AGRO 1110G - Introduction to Plant Science (Lecture & Laboratory)

Actual Credits - 4

- BCIS 1110 - Fundamentals of Information Literacy and Systems

Actual Credits - 3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits - 1 - 3

Year	Semester	Actual Credits
Year 1	Spring	12

- ANSC 2330 - Animal Production

Actual Credits - 3

- AEEC 2130G - Survey of Food and Agricultural Issues

Actual Credits - 3

- MATH 1215 - Intermediate Algebra

May be waived if student tests into a higher-level math course.

Actual Credits 3

- WELD 1110 - Introduction to Welding Fundamentals

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Fall	16

- AEEC 1110 - Introduction to Agricultural Economics and Business

Actual Credits - 3

- AXED 1130 - Techniques in Agricultural Mechanization

Actual Credits - 3

- BIOL 2610G - Principles of Biology: Biodiversity, Ecology, and Evolution
- **AND** BIOL 2610L - Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory

Actual Credits - 4

- Area II: Mathematics
  OR
- Area V: Humanities
  OR
- Area VI: Creative and Fine Arts

Actual Credits - 3

- ECON 2110G - Macroeconomic Principles
  OR
- ECON 2120G - Microeconomic Principles

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Spring	17 - 15

- AEEC 2110 - Principles of Food and Agribusiness Management

Actual Credits - 3

- AGRO 2160 - Plant Propagation

Actual Credits - 3

- POLS 1120G - American National Government

Actual Credits - 3

- Electives - Agriculture AAS

Actual Credits - 8 - 6

AAS AT2526 - Automotive Technology - Associate of Applied Science

Overview

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.

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Program Contacts
[object Object], [object Object]

Program Outcomes

1. Graduates will demonstrate competence in the use of general and highly specialized tools and equipment.

2. Graduates will read and comprehend technical information and materials from printed and electronic sources relevant to the diagnosis and repair of automotive systems."

3. Graduates will apply technical knowledge and skills to repair, service, and maintain all types of Automobiles.

4. Graduates will demonstrate ability in inspecting and repairing brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems.

Required Courses

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.

Free Form Requirements
Students must complete all College 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.

GENERAL EDUCATION	16-17
Courses required from Area I, III, IV, VII and choose one course from II, V or VI.	
Area I: Communications ENGL1110G Composition I Composition I (Technical Requirement)	
Area III: Laboratory Science	
Area IV: Social/Behavioral Sciences	
Area II: Mathematics or Area V: Humanities or Area VI: Creative and Fine Arts	
Area VII: Flexible (General Education Elective(s) ENGL2210G Professional & Technical Communication Professional & Technical Communication (Technical Requirement)	
INSTITUTIONAL REQUIREMENTS	1-3
FYEX1111 Introduction to College Studies Introduction to College Studies or FYEX1110 First-Year Seminar First-Year Seminar or HNRS1115 Honors First Year Seminar Honors First Year Seminar	
TECHNICAL REQUIREMENTS	
AUTO112 Basic Gasoline Engines Basic Gasoline Engines	5
AUTO117 Electronic Analysis and Tune-Up of Gasoline Engines Electronic Analysis and Tune-Up of Gasoline Engines	5
AUTO119 Manual Transmission/Clutch Manual Transmission/Clutch	5
AUTO120 Electrical Systems Electrical Systems	4
AUTO125 Brakes Brakes	5
AUTO126 Suspension, Steering, and Alignment Suspension, Steering, and Alignment	5
AUTO127 Basic Automatic Transmission Basic Automatic Transmission or AUTO132 Automotive Air-Conditioning and Heating Systems Automotive Air-Conditioning and Heating Systems	4
AUTO137 Fuel Systems and Emission Controls Fuel Systems and Emission Controls	4
OETS118 Mathematics for Technicians Mathematics for Technicians	3
Electives, to bring the total credits to 60	3-0
Total Hours	**60**

Curriculum Notes
1. Any course which will bring total credits for the degree to 60. Additional courses may be required if Institutional requirement(s) are waived.

2. Course is a Technical Requirement and must be completed regardless of transfer credits awarded.

3. See the General Education section of the catalog for a full list of courses.

4. Any course which will bring total credits for the degree to 60. Additional courses may be required if Institutional requirement(s) are waived.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Automotive Technology - Associate of Applied Science
Total Degree Map Credits
60

Year	Semester	Actual Credits
Year 1	Fall	14 - 16

- AUTO 112 - Basic Gasoline Engines

Actual Credits -
5

- AUTO 125 - Brakes

Actual Credits -
5

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits May be waived if student has 30 or more transfer credits.
1 - 3

- OETS 118 - Mathematics for Technicians

Actual Credits -
3

Year	Semester	Actual Credits
Year 1	Spring	15 - 16

- AUTO 120 - Electrical Systems

Actual Credits -
4

- AUTO 126 - Suspension, Steering, and Alignment

Actual Credits -
5

- ENGL 1110G - Composition I

Actual Credits -
3 - 4

- Area II: Mathematics
  OR
- Area V: Humanities
  OR
- Area VI: Creative and Fine Arts

Actual Credits -
3

Year	Semester	Actual Credits
Year 2	Fall	16

- AUTO 117 - Electronic Analysis and Tune-Up of Gasoline Engines

Actual Credits -
5

- AUTO 132 - Automotive Air-Conditioning and Heating Systems

Actual Credits Must be taken in second year Fall or AUTO 127 in second year Spring
4

- ENGL 2210G - Professional & Technical Communication

Actual Credits -
3

- Area III: Laboratory Science

Actual Credits -
4

Year	Semester	Actual Credits
Year 2	Spring	15 - 12

- AUTO 119 - Manual Transmission/Clutch

Actual Credits -
5

- AUTO 137 - Fuel Systems and Emission Controls

Actual Credits -
4

- AUTO 127 - Basic Automatic Transmission

Actual Credits Must be taken if AUTO 132 was not completed in second year Fall
-

- Area IV: Social/Behavioral Sciences

Actual Credits -
3

- Electives - Automotive Technology AAS

Actual Credits -
3 - 0

AAS BT - Building Technology

Overview

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Program Contacts
[object Object]

Graduation Requirements

Graduation Requirements

15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate of Applied Science

Free Form Requirements

GENERAL EDUCATION	16-17
Courses are required from Area I, II, III, VII and one course from IV, V, or VI.	
Area I: Communications	
ENGL1110G Composition I - Composition I (Technical Requirement)	
Area II: Mathematics	
MATH1130G Survey of Mathematics Survey of Mathematics (Recommended)	
Area III: Laboratory Science	
Area IV: Social/Behavioral Sciences	
or Area V: Humanities	
or Area VI: Creative and Fine Arts	
Area VII: Flexible (General Education Elective(s)	
ENGL2210G Professional & Technical Communication - Professional & Technical Communication	
INSTITUTIONAL REQUIREMENTS	1-3
FYEX1111 Introduction to College Studies- Introduction to College Studies	
or FYEX1110 First-Year Seminar - First-Year Seminar	
or HNRS1115 Honors First Year Seminar - Honors First Year Seminar	
TECHNICAL REQUIREMENTS	
BCT118 Math for Building Trades - Math for Building Trades	3
BCT200 Building Trades II - Building Trades II	8
CNST1110 General Carpentry or Building Trades I - General Carpentry or Building Trades I	8
CNST1120 Construction Drawings - Construction Drawings	4
CNST1170 Construction Methods I - Construction Methods	3
CNST1270 Construction Methods II - Construction Methods II	3
DRFT105 Technical Drawing for Industry - Technical Drawing for Industry	3
DRFT130 General Building Codes - General Building Codes	3
DRFT160 Construction Take-Offs and Estimating - Construction Take-Offs and Estimating	3
Electives, to bring total credits to 60	5-2
Total Hours	**60**

Curriculum Notes

1. See the General Education section of the catalog for a full list of courses.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Building Technology - Associate of Applied Science
Total Degree Map Credits
60

Year	Semester	Actual Credits
Year 1	Fall	15 - 18

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

May be waived if student has 30 or more transfer credits.

Actual Credits 1 - 3

- CNST 1110 - General Carpentry or Building Trades I

-

Actual Credits 8

- BCT 118 - Math for Building Trades

-

Actual Credits 3

- ENGL 1110G - Composition I

-

Actual Credits 3 - 4

Year	Semester	Actual Credits
Year 1	Spring	18

- CNST 1170 - Construction Methods I

-

Actual Credits 3

- CNST 1120 - Construction Drawings

-

Actual Credits 4

- BCT 200 - Building Trades II

-

Actual Credits 8

- MATH 1130G - Survey of Mathematics

-

Actual Credits 3

Year	Semester	Actual Credits
Year 2	Fall	15

- ENGL 2210G - Professional & Technical Communication

-

Actual Credits 3

- DRFT 105 - Technical Drawing for Industry

-

Actual Credits 3

- DRFT 130 - General Building Codes

-

Actual Credits 3

- DRFT 160 - Construction Take-Offs and Estimating

-

Actual Credits 3

- CNST 1270 - Construction Methods II

-

Actual Credits 3

Year	Semester	Actual Credits
Year 2	Spring	12 - 9

- Area III: Laboratory Science

-

Actual Credits 4

- Area IV: Social/Behavioral Sciences
  OR
- Area V: Humanities
  OR
- Course Set Not Found

-

Actual Credits 3

- Electives - All

-

Actual Credits 5 - 2

AAS CIT IT - Computer and Information Technology IT Specialist

Overview

Computer and Information Technology IT Specialist - Associate of Applied Science
[object Object]

Program Contacts
[object Object], [object Object]

Program Outcomes

1. Install, configure, and manage Linux/ Unix and Windows operating systems.

2. Troubleshoot system performance, user accounts, and security settings.

3. Apply networking concepts, including IP addressing, network configuration, and troubleshooting.

4. Analyze and implement IT solutions using computer applications, databases, and networking principles.

5. Design and manage databases using Structured Query Language (SQL).

Free Form Requirements

Program Entrance

Essential Eligibility Requirements

Graduation Requirements

Graduation Requirements

15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate of Applied Science

GENERAL EDUCATION		15-17
Courses are required from Area I, II, IV, and VII, and Area III, or V, or VI.		
Area I: Communications		
ENGL 1110G Composition I (Technical Requirement)		
Area II: Mathematics		
Area III: Laboratory Science		
or Area V: Humanities		
or Area VI: Creative and Fine Arts		
Area IV: Social/Behavioral Sciences		
ECON1110G Survey of Economics Survey of Economics or ECON2110G Macroeconomic Principles Macroeconomic Principles or ECON2120G Microeconomic Principles Microeconomic Principles (Technical Requirement)		
Area VII: Flexible (General Education Elective(s)		
ENGL2210G Professional & Technical Communication Professional & Technical Communication (Technical Requirement)		
INSTITUTIONAL REQUIREMENTS		4-6
FYEX1111 Introduction to College Studies Introduction to College Studies or FYEX1110 First-Year Seminar First-Year Seminar or HNRS1115 Honors First Year Seminar Honors First Year Seminar		
MATH1215 Intermediate Algebra Intermediate Algebra		
TECHNICAL REQUIREMENTS		
BCIS1110 Fundamentals of Information Literacy and Systems Fundamentals of Information Literacy and Systems		3
BCIS1160 Windows Windows		3
BCIS1220 Introduction to MS Word Introduction to MS Word		3
BCIS2212 MS Access MS Access		3
BCIS2215 MS EXCEL MS Excel		3
CIST1217 Overview of Web Technologies Overview of Web Technologies		3
CIST1411 Introduction to Networks Introduction to Networks		3
CIST1680 Linux Essentials Linux Essentials		3
CIST2620 Windows Server Administration Windows Server Administration		3
CIST2999 Computer Technology Capstone Computer and Information Technology Capstone		3
Choose one Business course from the following:		3
ACCT2110 Principles of Accounting I (Financial) Principles of Accounting (Financial) BFIN2110 Introduction to Finance Introduction to Finance BUSA1110 Introduction to Business Introduction to Business MGMT2110 Principles of Management Principles of Management MKTG2110 Principles of Marketing Principles of Marketing		
Electives to bring the total credits to 60		8-4
Computer Related Courses from the following Disciplines:		
CIST (Computer Information Systems Technology)		
C S or CSCI (Computer Science)		
OECS (Computer Technology)		
Total Hours		**60**

Curriculum Notes

1. See the General Education section of the catalog for a full list of courses.
2. Any OECS course not required in the technical requirements.
3. Business/Computer Electives:

ACCT 2110 Principles of Accounting I (Financial)
BCIS 1110 Fundamentals of Information Literacy and Systems
BUSA 1110 Introduction to Business
BFIN 2110 Introduction to Finance
MGMT 2110 Principles of Management
MKTG 2110 Principles of Marketing

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Computer and Information Technology IT Specialist - AAS
Total Degree Map Credits
60
Degree Map Narrative

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.		
Year	**Semester**	**Actual Credits**
Year 1	Fall	16 - 20

- ENGL 1110G - Composition I

	Area I: Communications
Actual Credits	3 - 4

- Area III: Laboratory Science, or Area V: Humanities, or Area VI: Creative and Fine Arts

	-
Actual Credits	3 - 4

- BCIS 1110 - Fundamentals of Information Literacy and Systems

Actual Credits -
3

- CIST 1411 - Introduction to Networks

Actual Credits -
3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits May be waived if student has 30 or more transfer credits
1 - 3

- MATH 1215 - Intermediate Algebra

Actual Credits May be waived if student tests into a higher-level math course.
3

Year	Semester	Actual Credits
Year 1	Spring	15

- Area II: Mathematics

Actual Credits -
3

- ENGL 2210G - Professional & Technical Communication

Actual Credits Area VII: Flexible
3

- BCIS 1160 - Windows

Actual Credits -
3

- BCIS 1220 - Introduction to MS Word

Actual Credits -
3

- CIST 1680 - Linux Essentials

Actual Credits -
3

Year	Semester	Actual Credits
Year 2	Fall	15

- ECON 1110G - Survey of Economics
  OR
- ECON 2110G - Macroeconomic Principles
  OR
- ECON 2120G - Microeconomic Principles

Actual Credits Area IV: Social/Behavioral Sciences
3

- BCIS 2212 - MS Access

Actual Credits -
3

- BCIS 2215 - MS EXCEL

Actual Credits -
3

- CIST 1217 - Overview of Web Technologies

Actual Credits -
3

- CIST 2620 - Windows Server Administration

Actual Credits -
3

Year	Semester	Actual Credits
Year 2	Spring	14 - 10

- CIST 2999 - Computer Technology Capstone

Actual Credits -
3

- CIT - IT Business Electives

Actual Credits -
3

- CIT Computer Related Courses

Actual Credits -
8 - 4

AAS CIT N - Computer and Information Technology Networking

Overview

Computer and Information Technology Networking - Associate of Applied Science
[object Object]

Program Contacts
[object Object], [object Object]

Program Outcomes

1. Understand the fundamental components and functions of computer networks (TCP/IP model, network topologies, protocols Network addressing routing, switching and OSI Model).

2. Apply their skills to configure network devices (routers, switches) to establish network connectivity.

3. Design a network and implement it to meet specific business needs, considering factors such as cost, performance, and scalability.

Graduation Requirements

Graduation Requirements

15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate of Applied Science

Free Form Requirements

GENERAL EDUCATION		15-17
Courses required from Area I, II, IV and VII and one course from Area III, V, or VI.		
Area I: Communications		
ENGL1110G Composition I Composition I (Technical Requirement)		
Area II: Mathematics		
Area III: Laboratory Science		
or Area V: Humanities		
or Area VI: Creative and Fine Arts		
Area IV: Social/Behavioral Sciences		
ECON1110G Survey of Economics Survey of Economics (Technical Requirement)		
or ECON2110G Macroeconomic Principles Macroeconomic Principles		
or ECON2120G Microeconomic Principles Microeconomic Principles		
Area VII: Flexible (General Education Elective(s)		
ENGL2210G Professional & Technical Communication Professional & Technical Communication (Technical Requirement)		
INSTITUTIONAL REQUIREMENTS		4-6
FYEX1111 Introduction to College Studies Introduction to College Studies		
or FYEX1110 First-Year Seminar First-Year Seminar		
or HNRS1115 Honors First Year Seminar Honors First Year Seminar		
MATH1215 Intermediate Algebra - Intermediate Algebra		
TECHNICAL REQUIREMENTS		
BCIS1110 Fundamentals of Information Literacy and Systems Fundamentals of Information Literacy and Systems		3
BCIS1160 Windows Windows		3
BCIS2212 MS Access MS Access		3
CIST1217 Overview of Web Technologies Overview of Web Technologies		3
CIST1411 Introduction to Networks Introduction to Networks		3
CIST1412 Network Device Configuration Network Device Configuration		3
CIST1413 Network Administration Concepts Network Administration Concepts		3
CIST2210 Introduction to SQL (Structured Query Language) Introduction to SQL (Structured Query Language)		3
CIST2620 Windows Server Administration Windows Server Administration		3
CIST2811 Foundations of Security Foundations of Security		3
CIST2887 Ethical Hacking Ethical Hacking		3
CIST2999 Computer Technology Capstone Computer Technology Capstone		3
Choose one Business course from the following:		3
ACCT2120 Principles of Accounting II (Managerial) Principles of Accounting II (Managerial)		
BFIN2110 Introduction to Finance Introduction to Finance		
BUSA1110 Introduction to Business Introduction to Business		
MGMT2110 Principles of Management Principles of Management		
MKTG2110 Principles of Marketing Principles of Marketing		
Electives to bring the total credits to 60		**2-0**
Electives must be from the following disciplines:		
CIST (Computer Information Systems Technology)		
C S or CSCI (Computer Science)		
OECS (Computer Technology)		
Total Hours		**60-62**

Curriculum Notes

1. FYEX maybe waived if student has 30 or more transfer credits.
2. If institutional requirements are waived additional elective credits will be required.
3. Maybe waived if student tests into a higher-level math course.
4. Elective must be from the following disciplines:
CIST (Computer and Information Technology)
C S or CSCI (Computer Science)
E T (Engineering Technology)
OCES (Computer Technology)
5. See the General Education section of the catalog for a full list of courses.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Computer and Information Technology Networking - Associate of Applied Science
Total Degree Map Credits
60 - 62

Year	Semester	Actual Credits
Year 1	Fall	16 - 20

- ENGL 1110G - Composition I

Actual Credits	3 - 4

- Area III: Laboratory Science, or Area V: Humanities, or Area VI: Creative and Fine Arts

Actual Credits	3 - 4

- BCIS 1110 - Fundamentals of Information Literacy and Systems

Actual Credits - 3

- CIST 1411 - Introduction to Networks

Actual Credits - 3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits May be waived if student has 30 or more transfer credits. 1 - 3

- MATH 1215 - Intermediate Algebra

Actual Credits - 3

Year	Semester	Actual Credits
Year 1	Spring	12

- Area II: Mathematics

Actual Credits - 3

- ENGL 2210G - Professional & Technical Communication

Actual Credits - 3

- BCIS 1160 - Windows

Actual Credits - 3

- CIST 1412 - Network Device Configuration

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Fall	15

- ECON 1110G - Survey of Economics
  OR
- ECON 2110G - Macroeconomic Principles
  OR
- ECON 2120G - Microeconomic Principles

Actual Credits - 3

- BCIS 2212 - MS Access

Actual Credits - 3

- CIST 1217 - Overview of Web Technologies

Actual Credits - 3

- CIST 1413 - Network Administration Concepts

Actual Credits - 3

- CIST 2620 - Windows Server Administration

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Spring	17 - 15

- CIST 2210 - Introduction to SQL (Structured Query Language)

Actual Credits - 3

- CIST 2811 - Foundations of Security

Actual Credits - 3

- CIST 2887 - Ethical Hacking

Actual Credits - 3

- CIST 2999 - Computer Technology Capstone

Actual Credits - 3

- CIT - Business Electives

Actual Credits - 3

- CIT Computer Related Courses

Actual Credits - 2 - 0

AAS CIT P - Computer and Information Technology Programming

Overview

Computer and Information Technology Programming - Associate of Applied

Science
[object Object]

Program Contacts
[object Object], [object Object]

Free Form Requirements

Program Outcomes

1. The students will be able to explain core programming concepts (e.g., variables, loops, conditionals).

2. Students recognize and describe basic data structures (e.g., arrays, lists, stacks).

3. Students will be able to Apply and Debug basic programming concepts (e.g., writing simple programs, functions, or scripts). Debug and fix errors (e.g., syntax, logic, or runtime errors) in existing code.

4. Students will be able to create software applications using modern development tools and frameworks to address real-world challenges.

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate of Applied Science

GENERAL EDUCATION	15-17
Courses required from Area I, II, IV, VII, and one course from Area III, or V, or VI	
Area I: Communications	
ENGL1110G Composition I Composition I (Technical Requirement)	
Area II: Mathematics	
Area III: Laboratory Science	
or Area V: Humanities	
or Area VI: Creative and Fine Arts	
Area IV: Social/Behavioral Sciences	
ECON1110G Survey of Economics Survey of Economics	
or ECON2110G Macroeconomic Principles Macroeconomic Principles	
or ECON2120G Microeconomic Principles Microeconomic Principles (Technical Requirement)	
Area VII: Flexible (General Education Elective(s)	
ENGL2210G Professional & Technical Communication Professional & Technical Communication (Technical Requirement)	
INSTITUTIONAL REQUIREMENTS	4-6
FYEX1111 Introduction to College Studies Introduction to College Studies	
or FYEX1110 First-Year Seminar First-Year Seminar	
or HNRS1115 Honors First Year Seminar Honors First Year Seminar	
MATH1215 Intermediate Algebra Intermediate Algebra	
TECHNICAL REQUIREMENTS	
BCIS1110 Fundamentals of Information Literacy and Systems Fundamentals of Information Literacy and Systems	3
BCIS1160 Windows Windows	3
BCIS2212 MS Access MS Access	3
CIST1217 Overview of Web Technologies Overview of Web Technologies	3
CIST1411 Introduction to Networks Introduction to Networks	3
CIST1680 Linux Essentials Linux Essentials	3
CIST2210 Introduction to SQL (Structured Query Language) Introduction to SQL (Structured Query Language)	3
CIST2999 Computer Technology Capstone Capstone in CIST	3
CSCI1220 Computer Programming Fundamentals: Python Computer Programming Fundamentals: Python I	3
CSCI1240 C++ Programming I C++ Programming	3
CSCI1260 Computer Programming Fundamentals Java I Computer Programming Fundamentals Java I	3
Choose one Business course from the following:	3
ACCT2110 Principles of Accounting I (Financial) Principles of Accounting I (Financial)	
BFIN2110 Introduction to Finance Introduction to Finance	
BUSA1110 Introduction to Business Introduction to Business	
MGMT2110 Principles of Management Principles of Management	
MKTG2110 Principles of Marketing Principles of Marketing	
Electives to bring total credits to 60	**5-1**
Electives must from the following disciplines:	
CIST (Computer Information Systems Technology)	
C S or CSCI (Computer science)	
OECS (Computer Technology)	
Total Hours	**60**

Curriculum Notes

1. Each course selected must be from a different area and students cannot take multiple courses in the same area.
2. See the General Education section of the catalog for a full list of courses.
3. See the Requirements Tab for specific courses.
4. Business/Computer Electives:
ACCT 2110 Principles of Accounting I (Financial)
BUSA 1110 Introduction to Business
E T 120 Computation Software
BFIN 2110 Introduction to Finance
MGMT 2110 Principles of Management
MKTG 2110 Principles of Marketing

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Computer and Information Technology Programming - Associate of Applied Science
Total Degree Map Credits
60

Year	Semester	Actual Credits
Year 1	Fall	16 - 20

- ENGL 1110G - Composition I

Actual Credits 3 - 4

- Area III: Laboratory Science, or Area V: Humanities, or Area VI: Creative and Fine Arts

Actual Credits 3 - 4

- BCIS 1110 - Fundamentals of Information Literacy and Systems

Actual Credits 3

- CIST 1411 - Introduction to Networks

	-
Actual Credits	3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

	May be waived if student has 30 or more transfer credits.
Actual Credits	1 - 3

- MATH 1215 - Intermediate Algebra

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 1	Spring	15

- Area II: Mathematics

	-
Actual Credits	3

- ENGL 2210G - Professional & Technical Communication

	-
Actual Credits	3

- BCIS 1160 - Windows

	-
Actual Credits	3

- CSCI 1260 - Computer Programming Fundamentals Java I

	-
Actual Credits	3

- CIST 1680 - Linux Essentials

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 2	Fall	15

- ECON 1110G - Survey of Economics
  OR
- ECON 2110G - Macroeconomic Principles
  OR
- ECON 2120G - Microeconomic Principles

	-
Actual Credits	3

- BCIS 2212 - MS Access

	-
Actual Credits	3

- CIST 1217 - Overview of Web Technologies

	-
Actual Credits	3

- CSCI 1220 - Computer Programming Fundamentals: Python

	-
Actual Credits	3

- CSCI 1240 - C++ Programming I

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 2	Spring	14 - 10

- CIST 2210 - Introduction to SQL (Structured Query Language)

	-
Actual Credits	3

- CIST 2999 - Computer Technology Capstone

	-
Actual Credits	3

- CIT Computer Related Courses

	-
Actual Credits	5 - 1

- CIT - Business Electives

	-
Actual Credits	3

AAS DGT GD - Drafting and Graphics Technology General Drafting

Overview

Drafting and Graphics Technology General Drafting - Associate of Applied Science
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Identify nationally recognized computer-aided drafting standards.

2. Recognize basic geometric elements and professional practices used in computer-aided drafting.

3. Produce accurate technical drawings using modern computer-aided drafting software.

4. Produce industry-accepted drawings for various drafting fields such as mechanical, architectural, civil, and manufacturing.

5. Perform basic mathematical functions used to solve drafting and design-related problems.

6. Communicate effectively using written and verbal communication skills.

Graduation Requirements

Graduation Requirements

15 hour Residency Requirement, Minimum GPA 2.00.

Students must complete all College 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.

Required Courses

Associate of Applied Science

Free Form Requirements

GENERAL EDUCATION		**16-17**
Courses required from Area I, II, III, VII and choose one course from IV, V, or VI		
Area I: Communications		
ENGL1110G Composition I Composition I (Technical Requirements)		
Area II: Mathematics		
Area III: Laboratory Science		
Area IV: Social/Behavioral Sciences		
or Area V: Humanities		
or Area VI: Creative and Fine Arts		
Area VII: Flexible (General Education Elective(s)		
ENGL2210G Professional & Technical Communication Professional & Technical Communication		
INSTITUTIONAL REQUIREMENTS		4-6
FYEX1111 Introduction to College Studies Introduction to College Studies		
or FYEX1110 First-Year Seminar First-Year Seminar		
or HNRS1115 Honors First Year Seminar Honors First Year Seminar		
MATH1215 Intermediate Algebra Intermediate Algebra		
TECHNICAL REQUIREMENTS		
DRFT112 Drafting Concepts/Computer Drafting Fundamentals I Drafting Concepts/Computer Drafting Fundamentals I		4
DRFT113 Drafting Concepts/Computer Drafting Fundamentals II Drafting Concepts/Computer Drafting Fundamentals II		4
DRFT114 Introduction to Solid Modeling Introduction to Solid Modeling		3
DRFT180 Residential Drafting Residential Drafting		3
DRFT181 Commercial Drafting Commercial Drafting		3
DRFT214 Advanced Solid Modeling Advanced Solid Modeling		3
Draft Electives		9
Choose courses from BCT, CNST, DRFT or ENGR courses		
Electives, to bring the total credits to 60		**11-8**
Total Hours		**60**

Curriculum Notes

1. See the General Education section of the catalog for a full list of courses.
2. Course is a Technical Requirement and must be completed regardless of transfer credit awarded.
3. Will also satisfy Flexible 3 requirement for the NMHED General Education requirements for an Associate of Applied Science Degree.
4. Course required for new students or transfer students with less the 30 credit hours. Course may be waived if a student has completed 30 or more credit hours. If course is waived additional elective courses will be needed to meet the minimum hours required for the degree.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Drafting and Graphics Technology General Drafting - Associate of Applied Science
Total Degree Map Credits
60

Year	Semester	Actual Credits
Year 1	Fall	14 - 17

- ENGL 1110G - Composition I

Actual Credits Area I 3 - 4

- DRFT 112 - Drafting Concepts/Computer Drafting Fundamentals I

Actual Credits - 4

- DRFT 114 - Introduction to Solid Modeling

Actual Credits - 3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits - 1 - 3

- MATH 1215 - Intermediate Algebra

Actual Credits - 3

Year	Semester	Actual Credits
Year 1	Spring	17

- Area II: Mathematics

Actual Credits - 3

- Area III: Laboratory Science

Actual Credits - 4

- DRFT 113 - Drafting Concepts/Computer Drafting Fundamentals II

Actual Credits - 4

- DRFT 180 - Residential Drafting

Actual Credits - 3

- Course Set Not Found

Actual Credits Choose courses from BCT, CNST, DRFT or ENGR 3

Year	Semester	Actual Credits
Year 2	Fall	15

- ENGL 2210G - Professional & Technical Communication

Actual Credits Area VII 3

- DRFT 181 - Commercial Drafting

Actual Credits - 3

- Course Set Not Found

Actual Credits Choose courses from BCT, CNST, DRFT or ENGR 3

- Electives - All

Actual Credits - 3

- Electives - All

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Spring	14 - 11

- Area IV: Social/Behavioral Sciences
  OR
- Area V: Humanities
  OR
- Area VI: Creative and Fine Arts

Actual Credits - 3

- DRFT 214 - Advanced Solid Modeling

Actual Credits - 3

- Course Set Not Found

Actual Credits Choose courses from BCT, CNST, DRFT or ENGR 3

- Electives - All

	-
Actual Credits	5 - 2

AAS DMT DG - Digital Media Technology Digital Graphics

Overview

Digital Media Technology Digital Graphics - Associate of Applied Science
[object Object]

Program Contacts
[object Object], [object Object]

Program Outcomes

1. Students will perform creative tasks and projects utilizing design and digital media software, learning how to set up and manage projects efficiently from start to finish.

2. Students will apply design principles and influences in graphic and digital media projects, connecting these concepts to the history and evolution of art and design.

3. Students will develop the use visuals to convey ideas and stories, solving specific communication challenges in graphic art and digital media projects.

4. Students will learn how to solve for specific client needs and project details, using creativity and critical thinking.

5. Students will practice ethical and professional standards in the digital media and graphic arts industry.

6. Students will prepare a portfolio that reflects creativity, design & media skills for employment or further study.

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement, Minimum GPA 2.00

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 SENMC. Total credits required for degree: 60 credit hours

Required Courses

Associate of Applied Science

Free Form Requirements

GENERAL EDUCATION	
Courses required from Area I, IV, VI, and VII choose one course from Area II, III, or V.	15-17
Area I: Communications	
ENGL1110G Composition I Composition I (Technical Requirement)	
Area II: Mathematics	
or Area III: Laboratory Science	
or Area V: Humanities	
Area IV: Social/Behavioral Sciences	
PSYC1110G Introduction to Psychology Introduction to Psychology (Technical Requirement)	
Area VI: Creative and Fine Arts	
ARTH1115G Orientation in Art Orientation in Art (Technical Requirement)	
Area VII: Flexible (General Education Elective(s)	
COMM1115G Introduction to Communication Introduction to Communication or COMM1130G Public Speaking Public Speaking	
INSTITUTIONAL REQUIRMENTS	1-3
FYEX1111 Introduction to College Studies Introduction to College Studies	
or FYEX1110 First-Year Seminar First-Year Seminar	
or HNRS1115 Honors First Year Seminar Honors First Year Seminar	
TECHNICAL REQUIREMENTS	
ARTS1240 Design I Design I	3
ENGL2382 Narrative: Principles of Story Across the Media Narrative: Principles of Story Across the Media	3
ENGL2520G Film as Literature Film as Literature	3
FDMA1120 Desktop Publishing I Desktop Publishing I	3
FDMA1210 Digital Video Production I Digital Video Production I	3
FDMA1220 Introduction to Digital Video Editing Introduction to Digital Video Editing	3
FDMA1260 Introduction to Digital Media Introduction to Digital Media	3
FDMA1515 Introduction to Digital Image Editing - Photoshop Introduction to Digital Image Editing - Photoshop	3
FDMA1535 Introduction to Illustrator Introduction to Illustrator	3
FDMA1710 2D Animation 2D Animation	3
FDMA2994 Portfolio in Film & Digital Media Arts Portfolio in Film & Digital Media Arts	3
Choose an additional FDMA course from the following:	9

FDMA1360 Web Design I Web Design I	
FDMA1415 Principles of Sound Principles of Sound	
FDMA1545 Introduction to Photography & Digital Imaging Introduction to Photography & Digital Imaging	
FDMA1555 Introduction to the Creative Media Industry Introduction to the Creative Media Industry	
FDMA2120 Film Crew I/Introduction to Film and Media Workflow Film Crew I/Introduction to Film and Media Workflow	
FDMA2285 Digital Video Production and Editing II Digital Video Production and Editing II	
FDMA2535 Digital Illustration Digital Illustration	
FDMA2375 Typography Typography	
FDMA2998 Field Experience in Film & Digital Media Arts Field Experience in Film & Digital Media Arts	
Electives, to bring total credits to 60	**2-0**
Total Hours	**60-62**

Curriculum Notes

1. 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.

2. Program Concentration Coursework:

FDMA 1120 Desktop Publishing I
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)

3. 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.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Digital Media Technology Digital Graphics - Associate of Applied Science
Total Degree Map Credits
57 - 58

Year	Semester	Actual Credits
Year 1	Fall	16 - 19

- ENGL 1110G - Composition I

Actual Credits Area I: Communications 3 - 4

- ARTS 1240 - Design I

Actual Credits - 3

- ENGL 2520G - Film as Literature

Actual Credits - 3

- FDMA 1260 - Introduction to Digital Media

Actual Credits - 3

- Electives - FDMA Courses

Actual Credits - 3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits - 1 - 3

Year	Semester	Actual Credits
Year 1	Spring	15

- ARTH 1115G - Orientation in Art

Actual Credits Area VI: Creative and Fine Arts 3

- PSYC 1110G - Introduction to Psychology

Actual Credits Area IV: Social/Behavioral Sciences 3

- FDMA 1515 - Introduction to Digital Image Editing - Photoshop

Actual Credits - 3

- FDMA 1535 - Introduction to Illustrator

Actual Credits - 3

- Electives - FDMA Courses

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Fall	12

- Course Set Not Found

	-
Actual Credits	-

- COMM 1115G - Introduction to Communication
  OR
- COMM 1130G - Public Speaking

	Area VII: Flexible 3 (General Education Elective)
Actual Credits	3

- FDMA 1120 - Desktop Publishing I

	-
Actual Credits	3

- FDMA 1210 - Digital Video Production I

	-
Actual Credits	3

- FDMA 1220 - Introduction to Digital Video Editing

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 2	Spring	14 - 12

- ENGL 2382 - Narrative: Principles of Story Across the Media

	-
Actual Credits	3

- FDMA 1710 - 2D Animation

	-
Actual Credits	3

- FDMA 2994 - Portfolio in Film & Digital Media Arts

	-
Actual Credits	3

- Electives - FDMA Courses

	-
Actual Credits	3

- Electives - All

	-
Actual Credits	2 - 0

AAS FIRE - Fire Science

Overview

Fire Science - Associate of Applied Science
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Program Contacts
[object Object]

Program Outcomes

1. Graduates will demonstrate the ability to respond effectively to fire emergencies, including the application of fire suppression techniques, rescue operations, and hazardous materials management, in accordance with New Mexico state regulations.

2. Graduates will be capable of developing and delivering fire prevention education programs to diverse communities, promoting safety and compliance with state fire codes and regulations.

3. Graduates will exhibit leadership skills in managing fireground operations, including the ability to assume command, make strategic decisions, and coordinate with other emergency services in line with New Mexico state protocols.

4. Graduates will be equipped with the knowledge and skills to conduct thorough fire investigations, determining the cause and origin of fires while adhering to legal and ethical standards mandated by the state.

5. Graduates will maintain a high level of physical fitness and mental resilience, enabling them to perform effectively under the strenuous conditions typical of fire service roles, meeting state standards for fitness and wellness.

Program Entrance

Program Entrance Requirements
Medical Clearances and Background Checks Most of the health programs in Fire Science require students undergo the New Mexico Department of Health caregiver's criminal history screening program. This involves state and federal felony criminal background checks with fingerprints. This must be completed prior to starting the Emergency Medical Technician or EMT portion of the program or

prior to beginning their clinical experiences. Students with a disqualifying conviction can appeal some of those convictions through the New Mexico Department of Health. Depending on the program, students may or may not be allowed to remain in the program pending appeal. NOTE: Vaccines and drug screenings are also required during the clinical portion of the program.

Physical Requirements

Reasonable accommodations are made for students with disabilities. However, some disabilities may prohibit students from completing program specific competencies or gaining employment. Students with disabilities that may interfere with completing program competencies are advised to contact the Fire Science Program Director for more information. This program requires that the student be able to:

- lift, carry and balance up to 125 pounds (250 pounds with assistance)
- assume a variety of postural positions and be capable of physical maneuvers ranging from crawling, kneeling, squatting, twisting, turning, and bending, to climbing stairs and ladders
- withstand varied environmental conditions such as extreme heat, cold, and moisture

Technology Competencies

To assist students with adequate preparation for their coursework at SENMC, technology competencies have been identified and established. These competencies are in effect for all courses taken in the Fire Science program. Students must possess the following minimum competencies. Additional competencies may be required for particular courses/programs:

- Access course and program material on the Web using CANVAS and an applicable web browser
- Correspond with SENMC students and faculty using e-mail and the Web
- Read/print e-mail and attachments/files from students and faculty
- Complete, send, and receive assignments using e-mail and attachments/files Use the SENMC Library e-books, e-journals, databases, or credible World Wide Web resources for research and completion of course assignments
- Prepare and conduct presentations in the classroom using presentation equipment as required.
- Use the appropriate software for a given course (SENMC uses as standard Microsoft products, including MS Word, MS Project, MS Excel, and MS PowerPoint)
- Use an appropriate anti-virus application to ensure the files transmitted and received are virus free
- Use recommended plagiarism review software to ensure work is not plagiarized

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement

NOTE: Students must earn a final grade of C- or better in all required FIRE and FIRE related-elective courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and MATH 1130G Survey of Mathematicscourses.

Students must complete all SENMC 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.

Required Courses

Associate of Applied Science

Free Form Requirements

GENERAL EDUCATION	
Course required from Area I, II, IV, V and VII	15-16
Area I: Communications	
ENGL1110G Composition I - Composition I (Technical Requirement)	
Area II: Mathematics	
MATH1130G Survey of Mathematics - Survey of Mathematics (Technical Requirement)	
Area IV: Social/Behavioral Sciences	
SOCI1110G Introduction to Sociology - Introduction to Psychology	
or PSYC1110G Introduction to Psychology - Introduction to Psychology	
or SOCI2310G Contemporary Social Problems - Contemporary Social Problems	
Area V: Humanities	
PHIL2110G Introduction to Ethics - Introduction to Ethics (Technical Requirement)	
Area VII: Flexible (General Education Elective(s)	
ENGL2210G Professional & Technical Communication - Professional & Technical Communication (Technical Requirement)	
INSTITUTIONAL REQUIREMENTS	1-3
FYEX1111 Introduction to College Studies Introduction to College Studies	
or FYEX1110 First-Year Seminar First-Year Seminar	
or HNRS1115 Honors First Year Seminar Honors First Year Seminar	
TECHNICAL REQUIREMENTS	
FIRE102 Fire Fighter I and II - Firefighter I and II	12
FIRE112 Principles of Emergency Services - Principles of Emergency Services	3
FIRE115 Hazardous Materials Awareness and Operations - Hazardous Materials Awareness and Operations	3
FIRE202 Introduction to Wildland Fire Behavior - Introduction to Wildland Fire Behavior	2
FIRE252 Vehicle Extrication - Vehicle Extrication	2
OEEM101 CPR for the Health Care Professional - CPR for the Health Care Professional	1
OEEM1202425 Emergency Medical Technician Basic - Emergency Medical Technician Basic	9
OEEM120 L Emergency Medical Technician Basic Lab - Emergency Medical Technician Basic Lab	2
OEEM121 Emergency Medical Technician Basic Field/Clinical - Emergency Medical Technician Basic Field/Clinical	1

OEEM153 Introduction to Anatomy and Physiology for the EMS Provider - Introduction to Anatomy and Physiology for the EMS Provider	3
Electives, to bring the total credits to 60	6-3
Choose a FIRE course not required in Technical Requirements	
Total Hours	**60**

Curriculum Notes

1. See the General Education section of the catalog for a full list of courses.
2. Course is a Technical Requirement and must be completed regardless of transfer credit awarded.
3. Course required for new students or transfer students with less the 30 credit hours. Course may be waived if a student has completed 30 or more credit hours. If course is waived additional elective courses will be needed to meet the minimum hours required for the degree.
4. Any course which will bring total credits for the degree to 60. Additional courses may be required if FYEX 1111 is waived.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Fire Science - Associate of Applied Science
Total Degree Map Credits
60

Year	Semester	Actual Credits
Year 1	Fall	16 - 19

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits -
1 - 3

- FIRE 102 - Fire Fighter I and II

Actual Credits -
12

- ENGL 1110G - Composition I

Actual Credits -
3 - 4

Year	Semester	Actual Credits
Year 1	Spring	16

- FIRE 112 - Principles of Emergency Services

Actual Credits -
3

- FIRE 115 - Hazardous Materials Awareness and Operations

Actual Credits -
3

- FIRE 202 - Introduction to Wildland Fire Behavior

Actual Credits -
2

- FIRE 252 - Vehicle Extrication

Actual Credits -
2

- ENGL 2210G - Professional & Technical Communication

Actual Credits -
3

- MATH 1130G - Survey of Mathematics

Actual Credits -
3

Year	Semester	Actual Credits
Year 2	Fall	16

- OEEM 101 - CPR for the Health Care Professional

Actual Credits -
1

- OEEM 1202425 - Emergency Medical Technician Basic

Actual Credits -
9

- OEEM 120 L - Emergency Medical Technician Basic Lab

Actual Credits -
2

- OEEM 121 - Emergency Medical Technician Basic Field/ Clinical

Actual Credits -
1

- OEEM 153 - Introduction to Anatomy and Physiology for the EMS Provider

Actual Credits -
3

Year	Semester	Actual Credits
Year 2	Spring	12 - 9

- PSYC 1110G - Introduction to Psychology
  OR
- SOCI 1110G - Introduction to Sociology
  OR
- SOCI 2310G - Contemporary Social Problems

Actual Credits -
3

- PHIL 2110G - Introduction to Ethics

Actual Credits	- 3

- Course Set Not Found

Actual Credits	- 6 - 3

AAS HIT - Health Information Technology

Overview

Health Information Technology - Associate of Applied Science
[object Object]

Program Contacts
[object Object], [object Object]

Program Outcomes

1. Identify basic anatomy, physiology, disease processes, and interventions adequately to manage health data.

2. Collect, maintain, and analyze health data in accordance with privacy laws, organizational policy, and licensure/ accreditation requirements.

3. Code and submit health data accurately for insurance reimbursement and prior authorizations.

4. Use and troubleshoot all functions of Electronic Medical Records (EMR).

5. Maintain data security in accordance with all laws and regulations.

6. Use technology for data collection, storage, reporting, and analysis.

7. Use principles of ongoing quality improvement for health information systems.

8. Incorporate legal and ethical principles into health information systems.

9. Utilize basic management theories effectively and ethically.

10. Implement principles of social inclusion and equity in a work environment.

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate of Applied Science

Free Form Requirements

GENERAL EDUCATION		
Courses required from Area I, II, IV, VII and choose one course from III, V or IV.		15-18
Area I: Communications		
Area II: Mathematics		
MATH1130G Survey of Mathematics Survey of Mathematics (Recommended)		
Area IV: Social/Behavioral Sciences		
Area III: Laboratory Science		
or Area V: Humanities		
or Area VI: Creative and Fine Arts		
Area VII: Flexible (General Education Elective(s)		
INSTITUTIONAL REQUIREMENTS		1-3
FYEX1111 Introduction to College Studies Introduction to College Studies		
or FYEX1110 First-Year Seminar First-Year Seminar		
or HNRS1115 Honors First Year Seminar Honors First Year Seminar		
TECHNICAL REQUIREMENTS		
AHS140 Essentials of Anatomy and Physiology Essentials of Anatomy and Physiology		4
AHS202 Legal and Ethical Issues in Health Care Legal and Ethical Issues in Health Care		3
BCIS1110 Fundamentals of Information Literacy and Systems Fundamentals of Information Literacy and Systems		3
HIT120 Health Information Introduction to Pharmacology Health Information Introduction to Pharmacology		3
HIT140 Health Information Introduction to Pathophysiology Health Information Introduction to Pathophysiology		3
HIT150 Introduction to Medical Terminology/NURS150 Medical Terminology/OATS150 Medical Terminology Introduction to Medical Terminology		3
HIT158 Advanced Medical Terminology Advanced Medical Terminology		3
HIT221 Internship I Internship I		3
HIT240 Health Information Quality Management Health Information Quality Management		3
HIT248 Medical Coding I Medical Coding I		3
HIT258 Medical Coding II Medical Coding II		3
HIT268 Health Information System Health Information System		3
OATS208 Medical Office Procedures Medical Office Procedures		3
HIT228 Medical Insurance Billing/OATS228 Medical Insurance Billing Medical Insurance Billing		3
Electives, to bring the total credits to 61		2-3
MGMT2110 Principles of Management Principles of Management (Recommended)		
Total Hours		**61-64**

Curriculum Notes

1. See the General Education section of the catalog for a full list of courses.
2. Will also satisfy Flexible 3 requirement for the NMHED General Education requirements for an Associate of Applied Science Degree

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Health Information Technology - Associate of Applied Science
Total Degree Map Credits
61 - 64

Year	Semester	Actual Credits
Year 1	Fall	14 - 17

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

May be waived if student has 30 or more transfer credits.

Actual Credits 1 - 3

- AHS 140 - Essentials of Anatomy and Physiology

-

Actual Credits 4

- Area I: Communications

-

Actual Credits 3 - 4

- HIT 150 - Introduction to Medical Terminology
  OR
- OATS 150 - Medical Terminology
  OR
- NURS 150 - Medical Terminology

-

Actual Credits 3

- OATS 208 - Medical Office Procedures

-

Actual Credits 3

Year	Semester	Actual Credits
Year 1	Spring	14 - 12

- AHS 202 - Legal and Ethical Issues in Health Care

Actual Credits	3

- BCIS 1110 - Fundamentals of Information Literacy and Systems

Actual Credits	3

- HIT 158 - Advanced Medical Terminology

Actual Credits	3

- HIT 228 - Medical Insurance Billing

OR

- OATS 228 - Medical Insurance Billing

Actual Credits	3

- Electives - All

Actual Credits	MGMT 2110 Principles of Management (Recommended) 2 - 0

Year	Semester	Actual Credits
Year 1	Summer	6 - 7

- Area IV: Social/Behavioral Sciences

Actual Credits	3

- Area VII: Flexible 3 (General Education Elective)

Actual Credits	3 - 4

Year	Semester	Actual Credits
Year 2	Fall	15

- HIT 120 - Health Information Introduction to Pharmacology

Actual Credits	3

- HIT 140 - Health Information Introduction to Pathophysiology

Actual Credits	3

- HIT 240 - Health Information Quality Management

Actual Credits	3

- HIT 248 - Medical Coding I

Actual Credits	3

- MATH 1130G - Survey of Mathematics

Actual Credits	3

Year	Semester	Actual Credits
Year 2	Spring	12 - 13

- HIT 221 - Internship I

Actual Credits	3

- HIT 258 - Medical Coding II

Actual Credits	3

- HIT 268 - Health Information System

Actual Credits	3

- Area III: Laboratory Science, or Area V: Humanities, or Area VI: Creative and Fine Arts

Actual Credits	3 - 4

AAS HT FB - Hospitality and Tourism Food & Beverage

Overview

Hospitality and Tourism Food & Beverage - Associate of Applied Science
[object Object]

Program Contacts
[object Object]

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate of Applied Science

Free Form Requirements

GENERAL EDUCATION		
Course required from Area I, II, III or IV, V or VI, and VII		15-18
Area I: Communications		
Area II: Mathematics		
Area III: Laboratory Science		
or Area IV: Social/Behavioral Sciences		
Area V: Humanities		
or Area VI: Creative and Fine Arts		
Area VII: Flexible (General Education Elective(s)		
INSTITUTIONAL REQUIREMENTS		1-3
FYEX1111 Introduction to College Studies- Introduction to College Studies		
or FYEX1110 First-Year Seminar - First-Year Seminar		
or HNRS1115 Honors First Year Seminar - Honors First Year Seminar		
TECHNICAL REQUIREMENTS		
BCIS1110 Fundamentals of Information Literacy and Systems Fundamentals of Information Literacy and Systems		3
BCIS2215 MS EXCEL MS EXCEL		3
BLAW2110 Business Law I Business Law I		3
HOST201 Introduction to Hospitality Industry Introduction to Hospitality Industry		3
HOST203 Hospitality Operations Cost Control Hospitality Operations Cost Control		3
HOST208 Hospitality Supervision Hospitality Supervision		3
HOST219 Safety, Security and Sanitation in Hospitality Operations Safety, Security and Sanitation in Hospitality Operations		3
HOST221 Internship I Internship I		3
ELECTIVES: CHEF OR HOST COURSES		20-15
Recommended courses listed below or any approved CHEF course(s):		
CHEF211 Food Production Management I Food Production Management I		
CHEF212 Food Production Management II Food Production Management II		
CHEF213 Bakery Management Bakery Management		
CHEF214 Bakery Management II Bakery Management II		
HOST210 Catering and Banquet Operations Catering and Banquet Operations		
Total Hours		**60**

Curriculum Notes

1. Each course selected must be from a different area and students cannot take multiple courses in the same area.
2. See the General Education section of this catalog for a full list of courses.
3. See the Requirements tab for specific courses.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Hospitality and Tourism Food & Beverage - Associate of Applied Science
Total Degree Map Credits
54 - 53

Year	Semester	Actual Credits
Year 1	Fall	10 - 13

- Area I: Communications

Actual Credits -
3 - 4

- Course Set Not Found

Actual Credits -
-

- BCIS 1110 - Fundamentals of Information Literacy and Systems

Actual Credits -
3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits -
1 - 3

- HOST 201 - Introduction to Hospitality Industry

Actual Credits -
3

Year	Semester	Actual Credits
Year 1	Spring	12

- Area II: Mathematics

Actual Credits -
3

- Course Set Not Found

Actual Credits -
-

- BCIS 2215 - MS EXCEL

Actual Credits - 3

- HOST 203 - Hospitality Operations Cost Control

Actual Credits - 3

- Course Set Not Found

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Fall	18 - 19

- Area VII: Flexible 3 (General Education Elective)

Actual Credits - 3 - 4

- BLAW 2110 - Business Law I

Actual Credits - 3

- HOST 208 - Hospitality Supervision

Actual Credits - 3

- HOST 219 - Safety, Security and Sanitation in Hospitality Operations

Actual Credits - 3

- Course Set Not Found

Actual Credits - 6

Year	Semester	Actual Credits
Year 2	Spring	14 - 9

- HOST 221 - Internship I

Actual Credits - 3

- Course Set Not Found

Actual Credits - 11 - 6

AAS IMT E - Industrial Maintenance Technology Electrical

Overview

Industrial Maintenance Technology Technician Electrical - Associate of Applied Science
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Ability to follow the industrial safety work in the lab.

2. Wire industrial electrical circuits.

3. Analyze DC and AC electrical circuits and generator operations.

4. Demonstrate understanding of process control systems.

5. Demonstrate industrial measurement and calibration skills.

6. Tune, analyze, and troubleshoot industrial processes.

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate of Applied Science

Free Form Requirements

GENERAL EDUCATION		
Course required from Area I, II, IV, VII and choose one course from III, V, or VI.		15-17
Area I: Communications		
ENGL1110G Composition I Composition I (Technical Requirement)		
Area II: Mathematics		
MATH1130G Survey of Mathematics Survey of Mathematics (Technical Requirement)		
Area IV: Social/Behavioral Sciences		
ECON1110G Survey of Economics Survey of Economics (Recommended		
Area III: Laboratory Science		
or Area V: Humanities		
or Area VI: Creative and Fine Arts		
Area VII: Flexible (General Education Elective(s)		
ENGL2210G Professional & Technical Communication Professional & Technical Communication (Technical Requirement)		
INSTITUTIONAL REQUIREMENTS		1-3
FYEX1111 Introduction to College Studies Introduction to College Studies		
or FYEX1110 First-Year Seminar First-Year Seminar		
or HNRS1115 Honors First Year Seminar Honors First Year Seminar		
TECHNICAL REQUIREMENTS		
ELTR1110 Basic Electricity and Controls Basic Electricity and Controls		4
INMT133 Process Technology and Systems Process Technology and Systems		4
INMT134 Maintenance Principles Maintenance Principles		4
INMT165 Equipment Processes Equipment Processes		4
INMT205 Programmable Logic Controllers and Applications Programmable Logic Controllers and Applications		4
INMT223 Electrical Repairs Electrical Repairs		4
MAT130 Applied Industrial Electricity I Applied Industrial Electricity I		4
MAT135 Applied Industrial Electricity II Applied Industrial Electricity II		4
OEET120 Basic Motor Controls Basic Motor Controls		5
OEET295 Special Topics Special Topics		2-3
OETS100 Industrial/Construction Safety Industrial/Construction Safety		2
OETS118 Mathematics for Technicians Mathematics for Technicians		3
Total Hours		**60-65**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Industrial Maintenance Technician Electrical - Associate of Applied Science
Total Degree Map Credits
60 - 65

Year	Semester	Actual Credits
Year 1	Fall	16 - 19

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

May be waived if student has 30 or more transfer credits.
Actual Credits 1 - 3

- INMT 133 - Process Technology and Systems

-
Actual Credits 4

- OETS 100 - Industrial/Construction Safety

-
Actual Credits 2

- OETS 118 - Mathematics for Technicians

-
Actual Credits 3

- ENGL 1110G - Composition I

Area I
Actual Credits 3 - 4

- ECON 1110G - Survey of Economics

Area IV
Actual Credits 3

Year	Semester	Actual Credits
Year 1	Spring	16

- INMT 134 - Maintenance Principles

-
Actual Credits 4

- INMT 165 - Equipment Processes

-
Actual Credits 4

- OEET 120 - Basic Motor Controls

	-
Actual Credits	5

- ENGL 2210G - Professional & Technical Communication

	Area VII
Actual Credits	3

Year	Semester	Actual Credits
Year 2	Fall	15 - 16

- INMT 223 - Electrical Repairs

	-
Actual Credits	4

- MAT 130 - Applied Industrial Electricity I

	-
Actual Credits	4

- ELTR 1110 - Basic Electricity and Controls

	-
Actual Credits	4

- Area III: Laboratory Science, or Area V: Humanities, or Area VI: Creative and Fine Arts

	-
Actual Credits	3 - 4

Year	Semester	Actual Credits
Year 2	Spring	13 - 14

- INMT 205 - Programmable Logic Controllers and Applications

	-
Actual Credits	4

- MAT 135 - Applied Industrial Electricity II

	-
Actual Credits	4

- MATH 1130G - Survey of Mathematics

	Area II
Actual Credits	3

- OEET 295 - Special Topics

	-
Actual Credits	2 - 3

AAS IMT M - Industrial Maintenance Technology Mechanical

Overview

Industrial Maintenance Technology Mechanical - Associate of Applied Science
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Demonstrate safe work procedures in the mechanical maintenance field.

2. Identify concepts and principles on industrial equipment.

3. Identify components and apply theoretical knowledge in labs.

4. Ability to set up, maintain, and repair industrial equipment.

5. Demonstrate the use of tools and test equipment.

6. Demonstrate the communication of concepts, techniques, and ideas.

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate of Applied Science

Free Form Requirements

GENERAL EDUCATION		15-17
Courses required from Area I, II, IV, VII and choose one course from Area III, V, or VI.		
Area I: Communications		
ENGL1110G Composition I Composition I (Technical Requirement)		
Area II: Mathematics		
MATH1130G Survey of Mathematics Survey of Mathematics (Recommended)		
Area IV: Social/Behavioral Sciences		
ECON1110G Survey of Economics Survey of Economics (Recommended)		
Area III: Laboratory Science		
or Area V: Humanities		
or Area VI: Creative and Fine Arts		
Area VII: Flexible (General Education Elective(s)		
ENGL2210G Professional & Technical Communication Professional & Technical Communication		
INSTITUTIONAL REQUIREMENTS		1-3
FYEX1111 Introduction to College Studies Introduction to College Studies		
or FYEX1110 First-Year Seminar First-Year Seminar		
or HNRS1115 Honors First Year Seminar Honors First Year Seminar		
TECHNICAL REQUIREMENTS		
INMT133 Process Technology and Systems Process Technology and Systems		4
INMT134 Maintenance Principles Maintenance Principles		4
INMT165 Equipment Processes Equipment Processes		4
INMT235 Mechanical Drives I Mechanical Drives I		4
INMT237 Hydraulics I Hydraulics I		2
INMT261 Pump Operations I Pump Operations I		4
INMT262 Piping Systems Piping Systems		2
INMT263 Mechanical Drives II Mechanical Drives II		4
INMT264 Rigging Rigging		2
INMT265 Hydraulics II Hydraulics II		2
INMT267 Pump Operations II Pump Operations II		2
MAT265 Special Topics Special Topics		2-3
OETS100 Industrial/Construction Safety Industrial/Construction Safety		2
OETS118 Mathematics for Technicians Mathematics for Technicians		3

WELD1110 Introduction to Welding Fundamentals Introduction to Welding Fundamentals		3
Total Hours		**60-65**

Curriculum Notes
1. Area IV: Social/Behavioral Sciences Courses:

ANTH 1115G Introduction to Anthropology
ECON 1110G Survey of Economics, ECON 2110G Macroeconomic Principles, or ECON 2120G Microeconomic 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

2. MATH 1130G Survey of Mathematics is required for the degree but students may need to take any prerequisites needed to enter MATH 1130G first.

3. 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

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Industrial Maintenance Technician Mechanical - AAS
Total Degree Map Credits
60 - 65

Year	Semester	Actual Credits
Year 1	Fall	16 - 19

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits May be waived if student has 30 or more transfer credits. 1 - 3

- INMT 133 - Process Technology and Systems

Actual Credits - 4

- OETS 100 - Industrial/Construction Safety

Actual Credits - 2

- OETS 118 - Mathematics for Technicians

Actual Credits - 3

- ENGL 1110G - Composition I

Actual Credits Area I 3 - 4

- ECON 1110G - Survey of Economics

Actual Credits Area IV 3

Year	Semester	Actual Credits
Year 1	Spring	14

- INMT 134 - Maintenance Principles

Actual Credits - 4

- INMT 165 - Equipment Processes

Actual Credits - 4

- ENGL 2210G - Professional & Technical Communication

Actual Credits Area VII 3

- MATH 1130G - Survey of Mathematics

Actual Credits Area II 3

Year	Semester	Actual Credits
Year 2	Fall	15 - 16

- INMT 235 - Mechanical Drives I

Actual Credits - 4

- INMT 237 - Hydraulics I

Actual Credits - 2

- INMT 261 - Pump Operations I

Actual Credits - 4

- INMT 262 - Piping Systems

Actual Credits - 2

- Area III: Laboratory Science, or Area V: Humanities, or Area VI: Creative and Fine Arts

Actual Credits - 3 - 4

Year	Semester	Actual Credits

Year 2	Spring	15 - 16
• INMT 263 - Mechanical Drives II		
Actual Credits		4
• INMT 264 - Rigging		
Actual Credits		2
• INMT 265 - Hydraulics II		
Actual Credits		2
• INMT 267 - Pump Operations II		
Actual Credits		2
• MAT 265 - Special Topics		
Actual Credits		2 - 3
• WELD 1110 - Introduction to Welding Fundamentals		
Actual Credits		3

AAS NGCT - Natural Gas Compression Technology

Overview

Natural Gas Compression Technology - Associate of Applied Science
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Demonstrate knowledge of general industry safety guidelines in Natural Gas Compression.

2. Demonstrate concepts, principles, and system processes.

3. Identify specific components of natural gas engines and their functions.

4. Demonstrate the use and maintenance of natural gas equipment.

5. Demonstrate the use of hand tools, and special engine equipment.

6. Demonstrate the communication of concepts, techniques, and ideas.

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate of Applied Science

Free Form Requirements

GENERAL EDUCATION	15-17
Course required from Area I, II, IV, VII and choose one from III, V, or VI.	
Area I: Communications	
ENGL1110G Composition I Composition I (Technical Requirement)	
Area II: Mathematics	
MATH1130G Survey of Mathematics Survey of Mathematics (Recommended)	
Area IV: Social/Behavioral Sciences	
ECON1110G Survey of Economics Survey of Economics (Recommended)	
Area III: Laboratory Science	
or Area V: Humanities	
or Area VI: Creative and Fine Arts	
Area VII: Flexible (General Education Elective(s)	
ENGL2210G Professional & Technical Communication Professional & Technical Communication (Technical Requirement)	
INSTITUTIONAL REQUIREMENTS	1-3
FYEX1111 Introduction to College Studies Introduction to College Studies	
or FYEX1110 First-Year Seminar First-Year Seminar	
or HNRS1115 Honors First Year Seminar Honors First Year Seminar	
TECHNICAL REQUIREMENTS	
ELTR1110 Basic Electricity and Controls Basic Electricity and Controls	4
INMT165 Equipment Processes Equipment Processes	4
INMT205 Programmable Logic Controllers and Applications Programmable Logic Controllers and Applications	4
INMT237 Hydraulics I Hydraulics I	2
NGEC133 Natural Gas Engine Repair Technology Natural Gas Engine Repair Technology	5
NGEC175 Natural Gas Compressions Technology I Natural Gas Compressions Technology I	4
NGEC185 Natural Gas Compression Technology II Natural Gas Compression Technology II	4
NGEC245 Natural Gas Engine Management and Control Technology Natural Gas Engine Management and Control Technology	5
NGEC246 Fuel and Emissions Technology Fuel and Emissions Technology	5
NGEC295 Special Topics Special Topics	2
OETS100 Industrial/Construction Safety Industrial/Construction Safety	2
OETS118 Mathematics for Technicians Mathematics for Technicians	3
Electives, to bring total credits to 62	2-0

Total Hours		**62-64**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Natural Gas Compression Technology - Associate of Applied Science
Total Degree Map Credits
62 - 64

Year	Semester	Actual Credits
Year 1	Fall	14 - 17

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

May be waived if student has 30 or more transfer credits.
Actual Credits 1 - 3

- OETS 100 - Industrial/Construction Safety

-
Actual Credits 2

- OETS 118 - Mathematics for Technicians

-
Actual Credits 3

- INMT 237 - Hydraulics I

-
Actual Credits 2

- ENGL 1110G - Composition I

Area I
Actual Credits 3 - 4

- ECON 1110G - Survey of Economics

Area IV
Actual Credits 3

Year	Semester	Actual Credits
Year 1	Spring	16

- ELTR 1110 - Basic Electricity and Controls

-
Actual Credits 4

- INMT 165 - Equipment Processes

-
Actual Credits 4

- ENGL 2210G - Professional & Technical Communication

Area VII
Actual Credits 3

- NGEC 133 - Natural Gas Engine Repair Technology

-
Actual Credits 5

Year	Semester	Actual Credits
Year 2	Fall	15 - 16

- MATH 1130G - Survey of Mathematics

Area II
Actual Credits 3

- Area III: Laboratory Science, or Area V: Humanities, or Area VI: Creative and Fine Arts

-
Actual Credits 3 - 4

- NGEC 175 - Natural Gas Compressions Technology I

-
Actual Credits 4

- NGEC 245 - Natural Gas Engine Management and Control Technology

-
Actual Credits 5

Year	Semester	Actual Credits
Year 2	Spring	17 - 15

- NGEC 185 - Natural Gas Compression Technology II

-
Actual Credits 4

- NGEC 246 - Fuel and Emissions Technology

-
Actual Credits 5

- NGEC 295 - Special Topics

-
Actual Credits 2

- INMT 205 - Programmable Logic Controllers and Applications

-
Actual Credits 4

- Electives - All

Actual Credits	- 2 - 0

AAS ST2526 - Surgical Technology - Associate of Applied Science

Overview

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 Technologists will have numerous job opportunities upon graduation. Surgical Technologists 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.

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Program Contacts
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Program Outcomes

1. Students will identify, surgical instrumentation.

2. Students will demonstrate knowledge of various surgical procedures, including the steps involved, instruments used, and the roles of surgical team members.

3. Students will be able to apply infection control protocols and sterile techniques to maintain a safe surgical environment and prevent postoperative infections.

4. Students will develop effective communication skills to collaborate with surgical teams, patients, and other healthcare professionals in a clinical setting.

5. Students will demonstrate the ability to think critically and solve problems in high-pressure surgical situations, adapting to changing circumstances as needed.

6. Students will understand the importance of patient safety and will be able to assist in providing compassionate care before, during, and after surgery.

Program Entrance

Program Entrance Requirements

Admission to the ST program

1. High school diploma or GED certificate.
2. 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.
4. 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.

Required Courses

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.

Free Form Requirements

GENERAL EDUCATION	16-18
Course required from Area I, III, VII and choose one course from II or IV, and V or VI.	
Area I: Communications	
Area III: Laboratory Science CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors) Introduction to Chemistry Lecture and Laboratory (non majors) or CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors General Chemistry I Lecture and Laboratory for STEM majors	
Area II: Mathematics **or** Area IV: Social/Behavioral Sciences	
Area V: Humanities **or** Area VI: Creative and Fine Arts	
Area VII: Flexible (General Education Elective(s)	
INSTITUTIONAL REQUIREMENTS	4-6
FYEX1111 Introduction to College Studies Introduction to College Studies or FYEX1110 First-Year Seminar First-Year Seminar or HNRS1115 Honors First Year Seminar Honors First Year Seminar	
MATH1215 Intermediate Algebra Intermediate Algebra	
TECHNICAL REQUIREMENTS	
BIOL2210C Human Anatomy and Physiology I Lecture & Laboratory Human Anatomy and Physiology I Lecture & Laboratory	4
BIOL2225C Human Anatomy and Physiology II Lecture and Laboratory Human Anatomy and Physiology II Lecture and Laboratory	4
BIOL2310 Microbiology Microbiology & BIOL2310L Microbiology Laboratory Microbiology Laboratory	4
HIT150 Introduction to Medical Terminology Introduction to Medical Terminology	3
SURG120 Surgical Technology Clinical I Surgical Technology Clinical I	4
SURG140 Introduction to Surgical Technology Introduction to Surgical Technology	4
SURG145 Fundamentals of Perioperative Concepts & Techniques Fundamentals of Perioperative Concepts & Techniques	5
SURG150 Surgical Procedures I Surgical Procedures I	5
SURG155 Pharmacology for the Surgical Technology Pharmacology for the Surgical Technology	2
SURG160 Surgical Procedures II Surgical Procedures II	6
SURG230 Professional Readiness Professional Readiness	2
SURG260 Surgical Technology Clinical II Surgical Technology Clinical II	4
SURG265 Surgical Technology Clinical III Surgical Technology Clinical III	4

Total Hours	**71-75**

Curriculum Notes

1. See the General Education section of the catalog for a full list of courses.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Surgical Technology - Associate of Applied Science
Total Degree Map Credits
71 - 75

Year	Semester	Actual Credits
Year 1	Fall	14 - 17

- BIOL 2210C - Human Anatomy and Physiology I Lecture & Laboratory

Actual Credits -
4

- HIT 150 - Introduction to Medical Terminology

Actual Credits -
3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits May be waived if student has 30 or more transfer credits.
1 - 3

- MATH 1215 - Intermediate Algebra

Actual Credits -
3

- Area I: Communications

Actual Credits -
3 - 4

Year	Semester	Actual Credits
Year 1	Spring	14

- BIOL 2225C - Human Anatomy and Physiology II Lecture and Laboratory

Actual Credits -
4

- CHEM 1120G - Introduction to Chemistry Lecture and Laboratory (non majors)
  OR
- CHEM 1215G - General Chemistry I Lecture and Laboratory for STEM majors

Actual Credits -
4

- Area II: Mathematics
  OR
- Area IV: Social/Behavioral Sciences

Actual Credits -
3

- Area V: Humanities
  OR
- Area VI: Creative and Fine Arts

Actual Credits -
3

Year	Semester	Actual Credits
Year 1	Summer	7 - 8

- BIOL 2310 - Microbiology
- **AND** BIOL 2310L - Microbiology Laboratory

Actual Credits -
4

- Area VII: Flexible 3 (General Education Elective)

Actual Credits -
3 - 4

Year	Semester	Actual Credits
Year 2	Fall	16

- SURG 140 - Introduction to Surgical Technology

Actual Credits -
4

- SURG 145 - Fundamentals of Perioperative Concepts & Techniques

Actual Credits -
5

- SURG 150 - Surgical Procedures I

Actual Credits -
5

- SURG 155 - Pharmacology for the Surgical Technology

Actual Credits -
2

Year	Semester	Actual Credits
Year 2	Spring	14

- SURG 120 - Surgical Technology Clinical I

Actual Credits	- 4

- SURG 160 - Surgical Procedures II

Actual Credits	- 6

- SURG 260 - Surgical Technology Clinical II

Actual Credits	- 4

Year	Semester	Actual Credits
Year 2	Summer	6

- SURG 230 - Professional Readiness

Actual Credits	- 2

- SURG 265 - Surgical Technology Clinical III

Actual Credits	- 4

AAS WT2526 - Welding Technology

Overview

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Program Contacts

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Program Outcomes

1. Students will and employ all facets of safety used in the welding industry.

2. Show proficiency in identification in of electrode classifications and proper storage.

3. Perform welds and tests on various joints and positions.

4. Identify SMAW, GTAW, and GMAW power sources and their characteristics.

5. Maintain and Troubleshoot Power sources.

6. Analyze and Interpret Technical and welding drawings.

Required Courses

Associate of Applied Science

Free Form Requirements

GENERAL EDUCATION	
Courses are required from Area I, II, IV, and VII and choose one course from Area III, V, or VI.	15-17
Area I: Communications	
ENGL1110G Composition I Composition I (Technical Requirement)	
Area II: Mathematics	
MATH1130G Survey of Mathematics Survey of Mathematics (Recommended)	
Area IV: Social/Behavioral Sciences	
Area III: Laboratory Science	
or Area V: Humanities	
or Area VI: Creative and Fine Arts	
Area VII: Flexible (General Education Elective(s)	
ENGL2210G Professional & Technical Communication Professional & Technical Communication (Technical Requirement)	
INSTITUTIONAL REQUIREMENT	**1-3**
FYEX1111 Introduction to College Studies Introduction to College Studies	
or FYEX1110 First-Year Seminar First-Year Seminar	
or HNRS1115 Honors First Year Seminar Honors First Year Seminar	
TECHNICAL REQUIREMENTS	
OETS118 Mathematics for Technicians Mathematics for Technicians	3
WELD1110 Introduction to Welding Fundamentals Introduction to Welding Fundamentals	3
WELD1120 Print Reading for Welders Print Reading for Welders	3
WELD1130 SMAW (Shielded Metal Arc Welding) I SMAW (Shielded Metal Arc Welding) I	6
WELD1140 GMAW (Gas Metal Arc Welding) I GMAW (Gas Metal Arc Welding) I	3
WELD1155 GTAW (Gas Tungsten Arc Welding) I GTAW (Gas Tungsten Arc Welding) I	3
WELD1171 Layout and Fabrication Layout and Fabrication	3
WELD1210 Flux Cored Arc Welding Flux Cored Arc Welding	3
WELD1220 Pipe Welding I Pipe Welding I	3
WELD1310 Metallurgy Metallurgy	3
WELD2130 SMAW (Shielded Metal Arc Welding) II SMAW (Shielded Metal Arc Welding) II	6
WELD2140 GMAW (Gas Metal Arc Welding) II GMAW (Gas Metal Arc Welding) II	3
WELD2155 GTAW (Gas Tungsten Arc Welding) II GTAW (Gas Tungsten Arc Welding) II	3
WELD2220 Pipe Welding II Pipe Welding II	3

WELD2290 Welder Qualifications Welder Qualifications	6
Total Hours	**70-74**

Curriculum Notes

1. **General Education** - see General Education section of the catalog for a full list of courses.
2. **General Education/Technical Requirement** - course is a technical requirement and must be completed regardless of transfer credit awarded.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Welding Technology - Associate of Applied Science
Total Degree Map Credits
70 - 74

Year	Semester	Actual Credits
Year 1	Fall	16 - 19

- ENGL 1110G - Composition I

Actual Credits Area I 3 - 4

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits May be waived if student has 30 or more transfer credits. 1 - 3

- OETS 118 - Mathematics for Technicians

Actual Credits - 3

- WELD 1110 - Introduction to Welding Fundamentals

Actual Credits - 3

- WELD 1140 - GMAW (Gas Metal Arc Welding) I

Actual Credits - 3

- WELD 1155 - GTAW (Gas Tungsten Arc Welding) I

Actual Credits - 3

Year	Semester	Actual Credits
Year 1	Spring	18

- WELD 1120 - Print Reading for Welders

Actual Credits - 3

- WELD 1130 - SMAW (Shielded Metal Arc Welding) I

Actual Credits - 6

- WELD 1210 - Flux Cored Arc Welding

Actual Credits - 3

- WELD 1220 - Pipe Welding I

Actual Credits - 3

- MATH 1130G - Survey of Mathematics

Actual Credits Area II 3

Year	Semester	Actual Credits
Year 2	Fall	18 - 19

- WELD 1171 - Layout and Fabrication

Actual Credits - 3

- WELD 2130 - SMAW (Shielded Metal Arc Welding) II

Actual Credits - 6

- WELD 2220 - Pipe Welding II

Actual Credits - 3

- Area III: Laboratory Science
  OR
- Area V: Humanities
  OR
- Area VI: Creative and Fine Arts

Actual Credits - 3 - 4

- Area IV: Social/Behavioral Sciences

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Spring	18

- ENGL 2210G - Professional & Technical Communication

Area VII

Actual Credits 3

- WELD 1310 - Metallurgy

-

Actual Credits 3

- WELD 2140 - GMAW (Gas Metal Arc Welding) II

-

Actual Credits 3

- WELD 2155 - GTAW (Gas Tungsten Arc Welding) II

-

Actual Credits 3

- WELD 2290 - Welder Qualifications

-

Actual Credits 6

AASEMT2526 - Emergency Medical Services - Associate of Applied Science

Overview

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.

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Program Contacts
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Program Outcomes

1. Graduates will be proficient in providing pre-hospital emergency medical care, including basic and advanced life support, in compliance with New Mexico state EMS protocols.

2. Graduates will demonstrate the ability to accurately assess patient conditions, develop appropriate care plans, and implement interventions based on state EMS guidelines.

3. Graduates will be skilled in the use and maintenance of EMS equipment, ensuring all devices are used effectively and safely according to state standards.

4. Graduates will exhibit the ability to work collaboratively with other healthcare and emergency service professionals, ensuring seamless care transitions and effective communication, as expected by New Mexico state EMS policies.

5. Graduates will adhere to the highest ethical and legal standards in the practice of emergency medical services, upholding the responsibilities and scope of practice defined by New Mexico state laws.

6. Graduates will commit to ongoing learning and professional development, staying current with the latest EMS practices and technologies, as required by New Mexico state continuing education requirements.

Program Entrance

Program Entrance Requirements
Program Entrance Requirements

- 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

- Immunizations below are required before starting clinicals

- MMR twice since 1980 or Rubella and Rubeola titers

TB screening with expiration past end of semester

Varicella immunity (titer or proof of vaccination accepted)

TDAP within 10 years

Hepatitis B series or titers or declination waiver

Flu shot if in season (October-March)

COVID vaccination

Essential Eligibility Requirements
Required Skills and Abilities

All EMS programs require that the student be able to:

- lift, carry and balance up to 120 pounds (250 pounds with assistance)

- carry out emergency and non-emergency patient care, including, light extrication (i.e., be able to assume a variety of postural positions and be capable of physical maneuvers ranging from crawling, kneeling, squatting, twisting, turning, and bending, to climbing stairs and ladders)
- withstand varied environmental conditions such as extreme heat, cold, and moisture

Graduation Requirements

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 SENMC.

Required Courses

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.

Free Form Requirements

GENERAL EDUCATION	16-17
Course required from Area I, II, III, VII and choose one course form IV, V or VI.	
Area I: Communications ENGL1110G Composition I Composition I (Technical Requirement)	
Area II: Mathematics MATH1130G Survey of Mathematics Survey of Mathematics	
Area III: Laboratory Science CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors) Introduction to Chemistry Lecture and Laboratory (non majors) (Recommended)	
Area IV: Social/Behavioral Sciences or Area V: Humanities or Area VI: Creative and Fine Arts	
Area VII: Flexible (General Education Elective(s) COMM1130G Public Speaking Public Speaking or COMM1115G Introduction to Communication Communication	
INSTITUTIONAL REQUIREMENTS	1-3
FYEX1111 Introduction to College Studies Introduction to College Studies or FYEX1110 First-Year Seminar First-Year Seminar or HNRS1115 Honors First Year Seminar Honors First Year Seminar	
TECHNICAL REQUIREMENTS	
FIRE115 Hazardous Materials Awareness and Operations Hazardous Materials Awareness and Operations	3
FIRE130 Principles of Fire and Emergency Services Safety and Survival Principles of Fire and Emergency Services Safety and Survival	3
FIRE252 Vehicle Extrication Vehicle Extrication	2
OATS150 Medical Terminology/NURS150 Medical Terminology Medical Terminology	3
OEEM101 CPR for the Health Care Professional CPR for the Health Care Professional	1
OEEM1202425 Emergency Medical Technician Basic Emergency Medical Technician Basic	9
OEEM120 L Emergency Medical Technician Basic Lab Emergency Medical Technician Basic Lab	2
OEEM121 Emergency Medical Technician Basic Field/Clinical Emergency Medical Technician Basic Field/Clinical	1
OEEM150 2425 Emergency Medical Technician Intermediate Emergency Medical Technician Intermediate	6
OEEM150 L Emergency Medical Technician Intermediate Lab Emergency Medical Technician Intermediate Lab	2
OEEM151 Emergency Medical Technician Intermediate Field/Clinical Emergency Medical Technician Intermediate Field/Clinical	2
OEEM153 Introduction to Anatomy and Physiology for the EMS Provider Introduction to Anatomy and Physiology for the EMS Provider	3
OEEM207 Introduction to Pharmacology Introduction to Pharmacology	3
OEEM Electives	6
Electives, to bring the total credits to 68	5-2
Total Hours	**68**

Curriculum Notes

1. See the General Education section of the catalog for a full list of courses.
2. Course is a Technical Requirement and must be completed regardless of transfer credit awarded.
3. Course required for new students or transfer students with less the 30 credit hours. Course may be waived if a student has completed 30 or more credit hours. If course is waived additional elective courses will be needed to meet the minimum hours required for the degree.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Emergency Medical Services - Associate of Applied Science
Total Degree Map Credits
68

Year	Semester	Actual Credits
Year 1	Fall	17 - 19

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

May be waived if student has 30 or more transfer credits.

Actual Credits 1 - 3

- OEEM 101 - CPR for the Health Care Professional

Actual Credits - 1

- OEEM 1202425 - Emergency Medical Technician Basic

Actual Credits - 9

- OEEM 120 L - Emergency Medical Technician Basic Lab

Actual Credits - 2

- OEEM 121 - Emergency Medical Technician Basic Field/ Clinical

Actual Credits - 1

- OEEM 153 - Introduction to Anatomy and Physiology for the EMS Provider

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 1	Spring	16

- COMM 1130G - Public Speaking
  OR
- COMM 1115G - Introduction to Communication

	Area VII
Actual Credits	3

- OEEM150 2425 - Emergency Medical Technician Intermediate

	-
Actual Credits	6

- OEEM 150 L - Emergency Medical Technician Intermediate Lab

	-
Actual Credits	2

- OEEM 151 - Emergency Medical Technician Intermediate Field/Clinical

	-
Actual Credits	2

- OEEM 207 - Introduction to Pharmacology

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 2	Fall	17 - 18

- FIRE 130 - Principles of Fire and Emergency Services Safety and Survival

	-
Actual Credits	3

- FIRE 252 - Vehicle Extrication

	-
Actual Credits	2

- NURS 150 - Medical Terminology
  OR
- OATS 150 - Medical Terminology

	-
Actual Credits	3

- ENGL 1110G - Composition I

	Area I
Actual Credits	3 - 4

- MATH 1130G - Survey of Mathematics

	Area II
Actual Credits	3

- Course Set Not Found

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 2	Spring	18 - 15

- CHEM 1120G - Introduction to Chemistry Lecture and Laboratory (non majors)

	Area III
Actual Credits	4

- Area IV: Social/Behavioral Sciences
  OR
- Area V: Humanities
  OR
- Area VI: Creative and Fine Arts

	-
Actual Credits	3

- FIRE 115 - Hazardous Materials Awareness and Operations

	-
Actual Credits	3

- Course Set Not Found

	-
Actual Credits	3

- Electives - All

	-
Actual Credits	5 - 2

AASHTLT25 - Hospitality and Tourism Lodging & Tourism

Overview

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Program Contacts
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Required Courses

Associate of Applied Science

Free Form Requirements

GENERAL EDUCATION	
Course required from Area I, II, III or IV, V or VI, and VII	15-17
Area I: Communications	
Area II: Mathematics	
Area III: Laboratory Science	
or Area IV: Social/Behavioral Sciences	
Area V: Humanities	
or Area VI: Creative and Fine Arts	
Area VII: Flexible (General Education Elective(s)	
INSTITUTIONAL REQUIREMENTS	1-3
FYEX1111 Introduction to College Studies- Introduction to College Studies	
or FYEX1110 First-Year Seminar - First-Year Seminar	
or HNRS1115 Honors First Year Seminar - Honors First Year Seminar	
TECHNICAL REQUIREMENTS	
BCIS1110 Fundamentals of Information Literacy and Systems Fundamentals of Information Literacy and Systems	3
BCIS2215 MS EXCEL MS EXCEL	3
BLAW2110 Business Law I Business Law I	3
HOST201 Introduction to Hospitality Industry Introduction to Hospitality Industry	3
HOST202 Front Office Operations Front Office Operations	3
HOST203 Hospitality Operations Cost Control Hospitality Operations Cost Control	3
HOST204 Promotion of Hospitality Services Promotion of Hospitality Services	3
HOST205 Housekeeping, Maintenance, and Security Housekeeping, Maintenance, and Security	3
HOST206 Travel and Tourism Operations Travel and Tourism Operations	3
HOST208 Hospitality Supervision Hospitality Supervision	3
HOST210 Catering and Banquet Operations Catering and Banquet Operations	3
HOST216 Event, Conference and Convention Operations Event, Conference and Convention Operations	3
HOST219 Safety, Security and Sanitation in Hospitality Operations Safety, Security and Sanitation in Hospitality Operations	3
HOST221 Internship I Internship I	3
Electives, to bring total credits to 60	2-0
Total Hours	**60-62**

Curriculum Notes
1. See the General Education section of this catalog for a full list of courses.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Hospitality and Tourism Lodging & Tourism - Associate of Applied Science
Total Degree Map Credits
60 - 62

Year	Semester	Actual Credits
Year 1	Fall	16 - 19

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

May be waived if student has 30 or more transfer credits.
Actual Credits 1 - 3

- HOST 201 - Introduction to Hospitality Industry

-
Actual Credits 3

- HOST 202 - Front Office Operations

-
Actual Credits 3

- BCIS 1110 - Fundamentals of Information Literacy and Systems

-
Actual Credits 3

- Area I: Communications

-
Actual Credits 3 - 4

- Area V: Humanities
  OR
- Course Set Not Found

-
Actual Credits 3

Year	Semester	Actual Credits
Year 1	Spring	18 - 19

- Area II: Mathematics

-
Actual Credits 3

- Area III: Laboratory Science
  OR
- Area IV: Social/Behavioral Sciences

-
Actual Credits 3 - 4

- BCIS 2215 - MS EXCEL

-
Actual Credits 3

- HOST 203 - Hospitality Operations Cost Control

-
Actual Credits 3

- HOST 204 - Promotion of Hospitality Services

-
Actual Credits 3

- HOST 205 - Housekeeping, Maintenance, and Security

-
Actual Credits 3

Year	Semester	Actual Credits
Year 2	Fall	15

- HOST 208 - Hospitality Supervision

-
Actual Credits 3

- HOST 210 - Catering and Banquet Operations

-
Actual Credits 3

- HOST 219 - Safety, Security and Sanitation in Hospitality Operations

-
Actual Credits 3

- Area VII: Flexible 3 (General Education Elective)

-
Actual Credits 3

- BLAW 2110 - Business Law I

-
Actual Credits 3

Year	Semester	Actual Credits
Year 2	Spring	11 - 9

- HOST 206 - Travel and Tourism Operations

Actual Credits	3

- HOST 216 - Event, Conference and Convention Operations

Actual Credits	3

- HOST 221 - Internship I

Actual Credits	3

- Electives - All

Actual Credits	2 - 0

AASMTEA25 - Manufacturing Technology Electronics Assembly

Overview

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Program Contacts
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Program Outcomes

1. Develop a basic understanding of all programs in the Engineering Technology and Surveying Engineering Department.

2. Create a solid curriculum plan for their degree program.

3. Describe the Engineering Design Process.

4. Students will have knowledge about electrical engineering circuits such as AC&DC circuits.

5. Define and visit campus support programs and student engineering programs.

6. Describe and discuss communication skills in the engineering profession.

Required Courses

Associate of Applied Science

Free Form Requirements

GENERAL EDUCATION		16-17
Course required from Area I, II, III, VII and choose one course form IV, V and VI.		
Area I: Communications		
ENGL1110G Composition I Composition I (Technical Requirement)		
Area II: Mathematics		
Area III: Laboratory Science		
Area IV: Social/Behavioral Sciences		
or Area V: Humanities		
or Area VI: Creative and Fine Arts		
Area VII: Flexible (General Education Elective(s)		
ENGL2210G Professional & Technical Communication Professional & Technical Communication (Technical Requirement)		
INSTITUTIONAL REQUIREMENTS		4-6
FYEX1111 Introduction to College Studies Introduction to College Studies		
or FYEX1110 First-Year Seminar First-Year Seminar		
or HNRS1115 Honors First Year Seminar Honors First Year Seminar		
MATH1215 Intermediate Algebra Intermediate Algebra		
TECHNICAL REQUIREMENTS		
BUSA1110 Introduction to Business Introduction to Business		3
or ACCT2120 Principles of Accounting II (Managerial) Principles of Accounting II (Managerial)		
ET120 Computation Software Computation Software		3
ET182 Digital Logic Digital Logic		2
ET183 Applied DC Circuits Applied DC Circuits		3
ET183L Applied DC Circuits Lab Applied DC Circuits Lab		1
ET184 Applied AC Circuits Applied AC Circuits		3
ET246 Electronic Devices I Electronic Devices I		4
ET272 Electronic Devices II Electronic Devices II		4
ET282 Digital Electronics Digital Electronics		4
ELTR2996 Topics in Electricity Topics in Electricity		3
Electives: E T Courses		**10-6**
Total Hours		**60**

Curriculum Notes

1. Each course selected must be from a different area and students cannot take multiple courses in the same area.
2. See the General Education section of the catalog for a full list of courses.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Manufacturing Technology Electronics Assembly - Associate of Applied Science
Total Degree Map Credits
60

Year	Semester	Actual Credits
Year 1	Fall	14 - 17

- E T 120 - Computation Software

Actual Credits -
3

- E T 183 - Applied DC Circuits
- **AND** E T 183L - Applied DC Circuits Lab

Actual Credits -
4

- ENGL 1110G - Composition I

Actual Credits -
3 - 4

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits May be waived if student has 30 or more transfer credits.
1 - 3

- MATH 1215 - Intermediate Algebra

Actual Credits -
3

Year	Semester	Actual Credits
Year 1	Spring	17

- Area III: Laboratory Science

Actual Credits -
4

- Area IV: Social/Behavioral Sciences
  OR
- Area V: Humanities
  OR
- Course Set Not Found

Actual Credits -
3

- E T 184 - Applied AC Circuits

Actual Credits	3 - 3

- Electives: E T Courses

Actual Credits	4 - 4

- Electives: E T Courses

Actual Credits	3 - 3

Year	Semester	Actual Credits
Year 2	Fall	16

- ENGL 2210G - Professional & Technical Communication

Actual Credits	3 - 3

- E T 217 - Manufacturing Processes
- **AND** E T 217L - Manufacturing Processes Lab

Actual Credits	4 - 4

- ELTR 2996 - Topics in Electricity

Actual Credits	3 - 3

- Electives: E T Courses

Actual Credits	3 - 3

- Electives: E T Courses

Actual Credits	3 - 3

Year	Semester	Actual Credits
Year 2	Spring	13 - 10

- Area II: Mathematics

Actual Credits	3 - 3

- BUSA 1110 - Introduction to Business
  OR
- ACCT 2120 - Principles of Accounting II (Managerial)

Actual Credits	3 - 3

- Electives: E T Courses

Actual Credits	7 - 4

ABM BM - Business Management - Associate in Business Management

Overview

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.

Program Contacts
[object Object]

Program Outcomes

1. Demonstrate an understanding of business concepts and principles.

2. Accurately identify and describe key components of a business plan while effectively applying business terminology and concepts

3. Demonstrate an understanding of core management functions for mid-level management decisions.

4. Demonstrating competency in problem-solving, communication, teamwork, and ethical decision-making in real world business situations

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Students must complete all College 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.

Free Form Requirements

GENERAL EDUCATION		
Courses required from Area I, II, IV, and VII and one course from Area III, Area V, or Area VI.		
Area I Communications		4-3
ENGL1110G Composition I - Composition I (C- or higher)		
Area II: Mathematics		3
Area IV: Social/Behavioral Science		3
ECON1110G Survey of Economics - Survey of Economics (Technical Requirement) or		
ECON2110G Macroeconomic Principles - Macroeconomic Principles		
Choose one from the following:		3-4
Area III: Laboratory Science or		
Area V: Humanities or		
Area VI: Creative and Fine Arts		
Area VII: Flexible 3 (General Education Elective)		3
ENGL2210G Professional & Technical Communication - Professional & Technical Communication		
INSTITUTIONAL REQUIREMENTS		4-6
FYEX1111 Introduction to College Studies- Introduction to College Studies or		
FYEX1110 First-Year Seminar - First-Year Seminar or		
HNRS1115 Honors First Year Seminar - Honors First Year Seminar		
MATH1215 Intermediate Algebra - Intermediate Algebra		
TECHNICAL REQUIREMENTS		
ACCT2110 Principles of Accounting I (Financial) - Principles of Accounting I (Financial)		3
BCIS1110 Fundamentals of Information Literacy and Systems - Fundamentals of Information Literacy and Systems		3
BFIN2110 Introduction to Finance - Introduction to Finance		3
BLAW2110 Business Law I - Business Law I		3
BUSA2250 Work Readiness - Work Readiness (BMGT 201)		3
BUSA2999 Capstone in Business Managment - Capstone in Business Management (BMGT 290)		3
BUSA1110 Introduction to Business - Introduction to Business		3
MGMT2110 Principles of Management - Principles of Management		3
MGMT2998 Internship - Management Internship (BMGT 221)		3
MKTG2110 Principles of Marketing - Principles of Marketing		3
Choose one from the following		3
BCIS1220 Introduction to MS Word - Introduction to MS Word or		

GENERAL EDUCATION		
BCIS2215 MS EXCEL - MS EXCEL (OATS 215, OECS 215) or		
BCIS2212 MS Access - MS Access (OECS 220)		
Electives, to bring total credits to 60		**8-6**
ELECTIVES: GENERAL MANAGEMENT COURSES		
BMGT250 Diversity in the Workplace - Diversity in the Workplace		
ENTR2110 Small Business Management - Small Business Management (BMGT 277)		
BUSA2220 Human Resource Management - Human Resource Management (BMGT 280)		
BUSA2120 Introduction to Global Business - Introduction to Global Business (BMGT 282)		
BMGT285 Introduction to Manufacturing Operations - Introduction to Manufacturing Operations		
BMGT286 Introduction to Logistics - Introduction to Logistics		
BMGT287 Introduction to Export/Import - Introduction to Export/Import		
Total Hours		**60-62**

Curriculum Notes

1. See the General Education section of the catalog for a full list of courses.

2. Course is a Technical Requirement and must be completed regardless of transfer credit awarded.

3. Will also satisfy Flexible 3 requirement for the NMHED General Education requirements for an Associate of Applied Science Degree.

4. Course required for new students or transfer students with less the 30 credit hours. Course may be waived if a student has completed 30 or more credit hours. If course is waived additional elective courses will be needed to meet the minimum hours required for the degree.

5. Any course listed which will bring total credits for the degree to 60. Additional courses may be required if FYEX 1111 is waived.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Business Management - Associate in Business Management
Total Degree Map Credits
61 - 65

Year	Semester	Actual Credits
Year 1	Fall	17 - 19

- ACCT 2110 - Principles of Accounting I (Financial)

Actual Credits -
3

- BCIS 1110 - Fundamentals of Information Literacy and Systems

Actual Credits -
3

- BUSA 1110 - Introduction to Business

Actual Credits -
3

- ENGL 1110G - Composition I

Actual Credits Technical Requirement
4

- ECON 1110G or ECON 2110G

Actual Credits Area IV: Social/Behavioral Sciences
3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits Institutional Requirement
1 - 3

Year	Semester	Actual Credits
Year 1	Spring	14 - 15

- MATH 1215 - Intermediate Algebra

Actual Credits -
3

- BUSA 2250 - Work Readiness

Actual Credits -
3

- MGMT 2110 - Principles of Management

Actual Credits -
3

- BCIS 1220 - Introduction to MS Word
  OR
- BCIS 2212 - MS Access
  OR
- BCIS 2215 - MS EXCEL

Actual Credits Choose one from the following:
2 - 3

- Electives - General Management Courses

Actual Credits -
3

Year	Semester	Actual Credits
Year 2	Fall	15

- BFIN 2110 - Introduction to Finance

Actual Credits - 3

- BLAW 2110 - Business Law I

Actual Credits - 3

- ENGL 2210G - Professional & Technical Communication

Actual Credits - 3

- Electives - General Management Courses

Actual Credits - 3

- Area II: Mathematics

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Spring	15 - 16

- MGMT 2998 - Internship

Actual Credits - 3

- BUSA 2999 - Capstone in Business Managment

Actual Credits - 3

- MKTG 2110 - Principles of Marketing

Actual Credits - 3

- Area III: Laboratory Science
  OR
- Area V: Humanities
  OR
- Area VI: Creative and Fine Arts

Actual Credits - 3 - 4

- Electives - General Management Courses

Actual Credits - 3

ABOT BOTA - Business Office Technology Accounting

Overview

Business Office Technology Accounting - Associate of Applied Science
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Demonstrate knowledge of business soft skills such as attitude, being a team player, proper attire, punctuality, and attention to detail.

2. Demonstrate an understanding of the accounting cycle through analyzing and journalizing basic transactions, posting to the general ledger and subsidiary ledgers, posting adjusting entries, preparing financial statements in accordance with Generally Accepted Accounting principles and posting closing entries.

3. Prepare common accounting documents, such as bank reconciliations, payroll tax reports, and individual income tax returns.

4. Demonstrate ability to use managerial accounting records to produce financial information for business decision making.

5. Demonstrate their knowledge of the program through passing the Capstone course or successfully completing an internship in the accounting profession.

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate of Applied Science

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Untitled Degree Map
Total Degree Map Credits
0

Year	Semester	Actual Credits
Year 1	Fall	0

Free Form Requirements

ABOT BOTAA - Business Office Technology Administrative Assistant

Overview

Business Office Technology Administrative Assistant - Associate of Applied Science
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Demonstrate knowledge of business soft skills such as attitude, being a team player, proper attire, punctuality, and attention to detail.

2. Demonstrate proficiency in keyboarding.

3. Demonstrate proficiency in basic computer application skills, including Microsoft Word, Outlook, and Excel.

4. Demonstrate their knowledge of the program through passing the Capstone course or successfully completing an internship in the business office profession with an emphasis in administrative assistant duties and functions.

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate of Applied Science

GENERAL EDUCATION	
Courses required from Area I, II, IV and VII and one course from Area III, V or VI	15-17
Area I: Communications	
ENGL1110G Composition I Composition I (Technical Requirement)	
Area II: Mathematics	
Area III: Laboratory Science	
or Area V: Humanities	
or Area VI: Creative and Fine Arts	
Area IV: Social/Behavioral Sciences	
ECON1110G Survey of Economics Survey of Economics (Technical Requirement)	
or ECON2110G Macroeconomic Principles Macroeconomic Principles	
or ECON2120G Microeconomic Principles Microeconomic Principles	
Area VII: Flexible (General Education Elective(s)	
ENGL2210G Professional & Technical Communication Professional & Technical Communication	
INSTITUTIONAL REQUIREMENTS	4-6
FYEX1111 Introduction to College Studies Introduction to College Studies	
or FYEX1110 First-Year Seminar First-Year Seminar	
or HNRS1115 Honors First Year Seminar Honors First Year Seminar	
MATH1215 Intermediate Algebra Intermediate Algebra	
TECHNICAL REQUIREMENTS	
ACCT2115 Survey of Accounting Survey of Accounting	3
BCIS1110 Fundamentals of Information Literacy and Systems Fundamentals of Information Literacy and Systems	3
BCIS1220 Introduction to MS Word Introduction to MS Word (OATS 213, OECS 211)	3
BCIS2212 MS Access MS Access (OECS 220)	3
BCIS2215 MS EXCEL MS Excel (OATS 215, OECS 215)	3
BLAW2110 Business Law I Business Law I	3
BUSA1110 Introduction to Business Introduction to Business	3
BUSA1210 Records Management Records Management	3
BUSA2250 Work Readiness Work Readiness (BMGT 201)	3
FDMA1120 Desktop Publishing I Desktop Publishing I (OECS 280)	3
OATS191 Taking Minutes and ProofreadingTaking Minutes and Proofreading	3
OATS202 Keyboarding: Document Production Keyboarding: Document Production)	3
OTEC1102 Keyboard Skillbuilding Keyboard Skillbuilding (OATS 102)	3
Electives, to bring the total credits to 60	2-0
Total Hours	**60-62**

Curriculum Notes

1. See the General Education section of the catalog for a full list of courses.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Business Office Technology Administrative Assistant - AAS
Total Degree Map Credits
60 - 62

Year	Semester	Actual Credits
Year 1	Fall	16 - 19

- ENGL 1110G - Composition I

Actual Credits - 3 - 4

- BCIS 1110 - Fundamentals of Information Literacy and Systems

Actual Credits - 3

- BUSA 1110 - Introduction to Business

Actual Credits - 3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits - 1 - 3

- MATH 1215 - Intermediate Algebra

Actual Credits - 3

- OTEC 1102 - Keyboard Skillbuilding

Actual Credits - 3

Year	Semester	Actual Credits
Year 1	Spring	18

- ACCT 2115 - Survey of Accounting

Actual Credits - 3

- Area II: Mathematics

Actual Credits - 3

- ECON 1110G - Survey of Economics
  OR
- ECON 2110G - Macroeconomic Principles
  OR
- ECON 2120G - Microeconomic Principles

Actual Credits - 3

- BCIS 1220 - Introduction to MS Word

Actual Credits - 3

- BCIS 2215 - MS EXCEL

Actual Credits - 3

- BUSA 1210 - Records Management

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Fall	12 - 13

- Area III: Laboratory Science, or Area V: Humanities, or Area VI: Creative and Fine Arts

Actual Credits - 3 - 4

- ENGL 2210G - Professional & Technical Communication

Actual Credits - 3

- BLAW 2110 - Business Law I

Actual Credits - 3

- FDMA 1120 - Desktop Publishing I

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Spring	14 - 12

- BCIS 2212 - MS Access

Actual Credits - 3

- BUSA 2250 - Work Readiness

Actual Credits - 3

- OATS 191 - Taking Minutes and Proofreading

Actual Credits - 3

- OATS 202 - Keyboarding: Document Production

Actual Credits - 3

- Electives - All

Actual Credits - 2 - 0

ACJ CJ - Criminal Justice

Overview

Criminal Justice - Associate in Criminal Justice
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Describe the roles, responsibilities, and functions of various law enforcement agencies within the American justice system.

2. Demonstrate an understanding of the rules, principles, and doctrines of criminal law and apply them to criminal proceedings.

3. Demonstrate an understanding of investigative procedures for the collection of data in case preparation.

4. Describe the structure and functions of the American court system and the roles of professionals in court proceedings.

Graduation Requirements

Graduation Requirements
- Satisfactory completion of
- development and evolution of
- corrections philosophy

15 Hour Residency Requirement, Minimum GPA 2.00
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 (CJUS) course but may be used as electives within the 3-5 credits applied course limit. Please contact an advisor.

Students must complete all College 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.

Required Courses

CJUS - Associate

Free Form Requirements

General Education	
Area I: Communications	
English Composition - Level I	3-4
ENGL1110G Composition I Composition	
English Composition - Level 2	3
ENGL2210G Professional & Technical Communication Professional & Technical Communications or ENGL2221G Writing in the Humanities and Social Science Writing in the Humanities and Social Science	
Oral Communication	3
COMM1130G Public Speaking Public Speaking or COMM1115G Introduction to Communication Communication	
Area II: Mathematics	3
MATH1220G College Algebra College Algebra (Core Curriculum Requirement) or MATH1350G Introduction to Statistics Introduction to Statistics	
Area III: Laboratory Science	4
Area IV: Social/Behavioral Sciences	3
CJUS1110G Introduction to Criminal Justice Introduction to Criminal Justice (Core Curriculum Requirement)	
Area III: Laboratory Science	3-4
or Area IV: Social/Behavioral Sciences	
Area V: Humanities	3
Complete any PHIL "G" course - Core Requirement	
Area VI: Creative and Fine Arts	3
Area VII: Flexible (General Education Elective(s)	3
POLS1120G American National Government American National Government (Core Curriculum Requirement)	
INSTITUTIONAL REQUIREMENTS	4-7
FYEX1111 Introduction to College Studies Introduction to College Studies	
or FYEX1110 First-Year Seminar First-Year Seminar	
or HNRS1115 Honors First Year Seminar Honors First Year Seminar	
MATH1215 Intermediate Algebra Intermediate Algebra	
CORE CURRICULUM REQUIREMENTS	12
CJUS1120 Criminal Law Criminal Law	
CJUS2120 Criminal Courts and Procedure Criminal Courts and Procedure	
CJUS2150 Corrections System Corrections System	
CJUS2220 The American Law Enforcement System The American Law Enforcement System	

SECOND LANGUAGE REQUIREMENT	8
Completion of a second language through 1120 or 1220 level based on proficiency.	
ELECTIVES, TO BRING TOTAL CREDITS TO 60	5-1
Recommended Electives:	
CJUS2140 Criminal Investigations Criminal Investigations	
PSYC2221 Applied Psychology Applied Psychology	
Total Hours	**60**

Curriculum Notes

1. A Mathematics course is required for the degree, but students may need to take any prerequisites needed to enter the course first.

2. See the General Education section of the catalog for a full list of courses.

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-by-case basis and students should discuss elective requirements with their advisor.

4. 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)

Completion of a second language through the 1120 level
Completion of a second language through the 1130 or 1140 level for Heritage speakers
Fulfilling one of the alternatives (see an advisor for specifics)

5. Or any additional English Composition - Level 2 course

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Criminal Justice - Associate in Criminal Justice
Total Degree Map Credits
54

Year	Semester	Actual Credits
Year 1	Fall	13 - 16

- ENGL 1110G - Composition I

	Area I: Communications - Level 1
Actual Credits	3 - 4

- COMM 1130G - Public Speaking
  OR
- COMM 1115G - Introduction to Communication

	Area I: Communications - Oral Communication
Actual Credits	3

- CJUS 1110G - Introduction to Criminal Justice

	Area IV: Social/Behavioral Sciences
Actual Credits	3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1111 - Introduction to College Studies
  OR
- HNRS 1115 - Honors First Year Seminar

	-
Actual Credits	1 - 3

- MATH 1215 - Intermediate Algebra

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 1	Spring	13

- ENGL 2210G - Professional & Technical Communication
  OR
- ENGL 2221G - Writing in the Humanities and Social Science

	Area I: Communications - Level 2
Actual Credits	3

- MATH 1220G - College Algebra
  OR
- MATH 1350G - Introduction to Statistics

	Area II: Mathematics
Actual Credits	3

- Area III: Laboratory Science

	-
Actual Credits	4

- Course Set Not Found

	Area V: Humanities. Complete any PHIL "G" course
Actual Credits	-

- CJUS 1120 - Criminal Law

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 2	Fall	13 - 14

- Area III: Laboratory Science
  OR
- Area IV: Social/Behavioral Sciences

	-
Actual Credits	3 - 4

- POLS 1120G - American National Government

	Area VII: Flexible 3 (General Education Elective)
Actual Credits	3

- Course Set Not Found

	Second Language (1st of 2 consecutive levels). Completion of a second language through 1120 or 1220 level based on proficiency.
Actual Credits	4

- CJUS 2220 - The American Law Enforcement System

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 2	Spring	15 - 11

- Course Set Not Found

	-
Actual Credits	-

- CJUS 2120 - Criminal Courts and Procedure

	-
Actual Credits	3

- CJUS 2150 - Corrections System

	-
Actual Credits	3

- SPAN 1120 - Spanish II

	Second Language (2st of 2 consecutive levels).
Actual Credits	4

- Electives - All

	-
Actual Credits	5 - 1

AECE ECE25 - Early Childhood Education - Associate

Overview

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.

[object Object]

Program Contacts
[object Object], [object Object]

Program Outcomes

1. Incorporate effective oral and written communication skills.

2. Demonstrate knowledge of social structure (diversity).

3. Apply theoretical foundation of child development case studies.

4. Evaluate various classroom models, management strategies, and dynamics.

5. Explore instruction and curriculum based on formative and summative assessments and needs of diverse learners.

6. Explain the historical aspects of early childhood education in the American educational system and how they have influenced contemporary methodologies and modern systems.

7. Assess ethics related to teaching and learning in early childhood education.

8. Identify career opportunities and requirements for obtaining New Mexico Teacher Certification.

Program Entrance

Essential Eligibility Requirements
Students are required to pass a security background check in order to take certain courses. Criminal violations may prevent a student from completing the program.

Graduation Requirements

Graduation Requirements
15-hour Residency Requirement, Minimum GPA of 2.50, and All Courses must have a C or higher.

Required Courses

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.

Free Form Requirements

GENERAL EDUCATION	
Area I: Communications ENGL1110G Composition I Composition I (Core Requirement) & Choose an additional course from Area I: Communications	6-7
Area II: Mathematics MATH1220G College Algebra College Algebra or MATH2134G Fundamentals of Elementary Math II Fundamentals of Elementary Math II	3
Area III: Laboratory Science	4
Area IV: Social/Behavioral Sciences	3
Area V: Humanities Choose one (Core Requirement) from the following: HIST1110G United States History I United States History I HIST1120G United States History II United States History II HIST1122G History of Latino/a/x in the U.S. History of Latino/a/x in the U.S. HIST1130G World History I World History I HIST1140G World History II World History II	3
Area VI: Creative and Fine Arts	3
Area VII: Flexible (General Education Elective(s)	9-10
INSTITUTIONAL REQUIREMENTS	4-6
FYEX1111 Introduction to College Studies Introduction to College Studies or FYEX1110 First-Year Seminar First-Year Seminar or HNRS1115 Honors First Year Seminar Honors First Year Seminar	
MATH1215 Intermediate Algebra Intermediate Algebra or MATH1134 Fundamentals of Elementary Mathematics I Fundamentals of Elementary Mathematics I	
CORE CURRICULUM REQUIREMENTS	
ECED1110 Child Growth, Development, and Learning Child Growth, Development, and Learning	3
ECED1115 Health, Safety, and Nutrition Health, Safety, and Nutrition	2
ECED1120 Guiding Young Children Guiding Young Children	3
ECED1125 Assessment of Children and Evaluation of Programs Assessment of Children and Evaluation of Programs	3
ECED1130 Family and Community Collaboration Family and Community Collaboration	3
ECED2110 Professionalism Professionalism	2
ECED2115 Introduction into Language, Literacy, and Reading Introduction into Language, Literacy, and Reading	3
ECED2120 Curriculum Development through Play Birth through Age 4 (PreK) Curriculum Development through Play Birth through Age 4 (PreK)	3

ECED2121 Curriculum Development through Play Birth through Age 4 (PreK) Practicum Curriculum Development through Play Birth through Age 4 (PreK) Practicum		2
ECED2130 Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Curriculum Development and Implementation Age 3 (PreK) through Grade 3		3
ECED2131 Curriculum Dvlpmnt & Implementation Age 3 (PreK) through Grade 3 Practicum Curriculum Dvlpmnt & Implementation Age 3 (PreK) through Grade 3 Practicum		2
Total Hours		**64-68**

Curriculum Notes

1. Course is a Core Requirement and must be completed regardless of transfer credit awarded.
2. No less than a C- is required in these courses.
3. Course required for new students or transfer students with less the 30 credit hours. Course may be waived if a student has completed 30 or more credit hours. If course is waived additional elective courses will be needed to meet the minimum hours required for the degree.
4. Any course which will bring total credits for the degree to 60. Additional courses may be required if FYEX 1111 is waived.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Early Childhood Education - Associate Degree
Total Degree Map Credits
64 - 68

Year	Semester	Actual Credits
Year 1	Fall	13 - 16

- ENGL 1110G - Composition I

	-
Actual Credits	3 - 4

- ECED 1110 - Child Growth, Development, and Learning

	-
Actual Credits	3

- ECED 1120 - Guiding Young Children

	-
Actual Credits	3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

	May be waived if student has 30 or more transfer credits.
Actual Credits	1 - 3

- MATH 1215 - Intermediate Algebra
  OR
- MATH 1134 - Fundamentals of Elementary Mathematics I

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 1	Spring	17

- HIST 1110G - United States History I
  OR
- HIST 1120G - United States History II
  OR
- HIST 1122G - History of Latino/a/x in the U.S.
  OR
- HIST 1130G - World History I
  OR
- HIST 1140G - World History II

	Choose one from the HIST courses
Actual Credits	3

- Area VII: Flexible 3 (General Education Elective)

	-
Actual Credits	3

- ECED 1115 - Health, Safety, and Nutrition

	-
Actual Credits	2

- ECED 1125 - Assessment of Children and Evaluation of Programs

	-
Actual Credits	3

- ECED 1130 - Family and Community Collaboration

	-
Actual Credits	3

- Area IV: Social/Behavioral Sciences

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 1	Summer	5

- ECED 2110 - Professionalism

	-
Actual Credits	2

- ECED 2115 - Introduction into Language, Literacy, and Reading

	-
Actual Credits	3

Year	Semester	Actual Credits

Year 2	Fall	15

- ECED 2120 - Curriculum Development through Play Birth through Age 4 (PreK)

Actual Credits - 3

- ECED 2121 - Curriculum Development through Play Birth through Age 4 (PreK) Practicum

Actual Credits - 2

- Area I: Communications

Actual Credits - 3

- Area III: Laboratory Science

Actual Credits - 4

- Area VII: Flexible 3 (General Education Elective)

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Spring	14 - 15

- ECED 2130 - Curriculum Development and Implementation Age 3 (PreK) through Grade 3

Actual Credits - 3

- ECED 2131 - Curriculum Dvlpmnt & Implementation Age 3 (PreK) through Grade 3 Practicum

Actual Credits - 2

- MATH 2134G - Fundamentals of Elementary Math II

OR

- MATH 1220G - College Algebra

Actual Credits - 3

- Course Set Not Found

Actual Credits - 3

- Area VII: Flexible 3 (General Education Elective)

Actual Credits - 3 - 4

AED ED - Education

Overview

Education - Associate in Education
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Explain the fundamentals of the American educational system and the experience of supervised bilingual educational settings.

2. Relate the historical overview of bilingual and ESL education including an emphasis on present trends and practices.

3. Examine the core principles of human growth and development throughout the lifespan.

4. Discuss the core educational psychology principles, theories, practices, assessments, and research for teaching and learning connected to classroom situations.

5. Design effective learning environments supported by technology and based on the constructivist approach.

6. Develop the necessary competencies needed for acceptance to the Teacher Education Program.

7. Develop basic listening, speaking, reading, and writing skills connected to intercultural competence in Spanish.

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate

Free Form Requirements
Oral Communication

GENERAL EDUCATION		
Area I: Communications		6-7
ENGL1110G Composition I Composition I (Core Requirement)		
Choose an additional course from Area I: Communications		
Area II: Mathematics		3
MATH1220G College Algebra College Algebra (Core Curriculum Requirement)		
or MATH2134G Fundamentals of Elementary Math II Fundamentals of Elementary Math II		
Area III: Laboratory Science		4
Area IV: Social/Behavioral Sciences		3
CEPY1120G Human Growth and Behavior Human Growth and Behavior (Core Curriculum Requirement)		
Area V: Humanities		3
Choose one from the following:		
HIST1110G United States History I United States History I		
HIST1120G United States History II United States History II		
HIST1122G History of Latino/a/x in the U.S. History of Latino/a/x in the U.S.		
HIST1130G World History I World History I		
HIST1140G World History II World History II		
Area VI: Creative and Fine Arts		3
Area VII: Flexible (General Education Elective(s)		9-12
INSTITUTIONAL REQUIREMENTS		4-6
FYEX1111 Introduction to College Studies Introduction to College Studies		
or FYEX1110 First-Year Seminar First-Year Seminar		
or HNRS1115 Honors First Year Seminar Honors First Year Seminar		
MATH1215 Intermediate Algebra Intermediate Algebra		
or MATH1134 Fundamentals of Elementary Mathematics I Fundamentals of Elementary Mathematics I		
CORE CURRICULUM REQUIREMENTS		
BLED1110 Introduction with Internship in Bilingual Education/ESL Introduction with Internship in Bilingual Education/ESL		3
BLED2110 Introduction to Bilingual and ESL Education Introduction to Bilingual and ESL Education		3
CEPY2110 Learning in the Classroom Learning in the Classroom		3
EDLT2110 Integrating Technology with Teaching Integrating Technology with Teaching		3
EDUC2710 Pre-Teacher Preparation Pre-Teacher Preparation (Pre-Teacher Preparation I)		3

SPAN1110 Spanish I Spanish I		4
Electives, to bring the total credits to 60		**6-3**
Choose one elective from the following:		
BCIS1110 Fundamentals of Information Literacy and Systems Fundamentals of Information Literacy and Systems		
ECED2215 Program Management Program Management		
ECED2140 Effective Program Development for Diverse Learners and their Families Effective Program Development for Diverse Learners and their Families		
SPAN1120 Spanish II Spanish II		
Total Hours		**60-64**

Curriculum Notes

1. Course Core Curriculum requirement and must completed regardless of transfer credit awarded.
2. Course required for new students or transfer students with less the 30 credit hours. Course may be waived if a student has completed 30 or more credit hours. If course is waived additional elective courses will be needed to meet the minimum hours required for the degree.
3. Any course which will bring total credits for the degree to 60. Additional courses may be required if FYEX 1111 is waived.

1. 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

2. Area III: Laboratory Science Courses:
ASTR 1115G Introduction to Astronomy (Lec+Laboratory)
ASTR 1120G The Planets
BIOL 1120G Human Biology/BIOL 1120L Human 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 (L)
GEOL 1110G Physical Geology
Approved GEOL course
PHYS 1115G Survey of Physics with Laboratory
PHYS 1230G Algebra-Based Physics I/PHYS 1230L Algebra-based Physics I Laboratory

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-by-case basis and students should discuss elective requirements with their advisor.

4. 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

5. Area VI: Creative and Fine Arts Courses:
ARTH 1115G Orientation in Art
MUSC 1130G Music Appreciation: Western Music
THEA 1110G Introduction to Theatre

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Education - Associate
Total Degree Map Credits
57 - 61

Year	Semester	Actual Credits
Year 1	Fall	13 - 16

- ENGL 1110G - Composition I

Actual Credits -
3 - 4

- CEPY 1120G - Human Growth and Behavior

Actual Credits -
3

- BLED 1110 - Introduction with Internship in Bilingual Education/ESL

Actual Credits -
3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

May be waived if student has 30 or more transfer credits.
Actual Credits 1 - 3

- MATH 1215 - Intermediate Algebra
  OR
- MATH 1134 - Fundamentals of Elementary Mathematics I

Actual Credits -
3

Year	Semester	Actual Credits
Year 1	Spring	12 - 13

- MATH 1220G - College Algebra
  OR
- MATH 2134G - Fundamentals of Elementary Math II

Actual Credits -
3

- BLED 2110 - Introduction to Bilingual and ESL Education

Actual Credits -
3

- HIST 1110G - United States History I
  OR
- HIST 1120G - United States History II
  OR
- HIST 1122G - History of Latino/a/x in the U.S.
  OR
- HIST 1130G - World History I
  OR
- HIST 1140G - World History II

Actual Credits - 3

- Course Set Not Found

Actual Credits - -

- Area VII: Flexible 3 (General Education Elective)

Actual Credits - 3 - 4

Year	Semester	Actual Credits
Year 2	Fall	16 - 17

- Area I: Communications

Actual Credits Choose an additional Area I course 3

- Area VII: Flexible 3 (General Education Elective)

Actual Credits - 3 - 4

- CEPY 2110 - Learning in the Classroom

Actual Credits - 3

- EDUC 2710 - Pre-Teacher Preparation

Actual Credits - 3

- SPAN 1110 - Spanish I

Actual Credits - 4

Year	Semester	Actual Credits
Year 2	Spring	16 - 15

- Area III: Laboratory Science

Actual Credits - 4

- Area VII: Flexible 3 (General Education Elective)

Actual Credits - 3 - 4

- EDLT 2110 - Integrating Technology with Teaching

Actual Credits - 3

- BCIS 1110 - Fundamentals of Information Literacy and Systems
  OR
- ECED 2215 - Program Management
  OR
- ECED 2140 - Effective Program Development for Diverse Learners and their Families
  OR
- SPAN 1120 - Spanish II

Actual Credits Elective: Choose one from the following: 3 - 4

- Course Set Not Found

Actual Credits Electives, to bring the total credits to 60 3 - 0

AGS GS - General Studies

Overview

Associate in General Studies
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Effective communication skills in reading, writing, listening, and speaking.

2. Basic critical thinking skills including problem identification, evidence acquisition, evidence evaluation, and reasoning/conclusion.

3. Appropriate information and digital literacy, and skills for personal and professional use.

4. An ability to apply the fundamental concepts of quantitative reasoning in mathematics and science.

5. An understanding of the fundamental concepts for analyzing significant primary texts and/or works of art, including fine arts, literature, music, theater, and film.

6. An understanding of personal and social responsibility.

Graduation Requirements

Graduation Requirements

15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate

Free Form Requirements

GENERAL EDUCATION		
Area I: Communications		
English Composition - Level 1		3-4
English Composition - Level 2		3
Oral Communication		3
Area II: Mathematics		3-4
Area III: Laboratory Science		4
Area IV: Social/Behavioral Sciences		3
Area III: Laboratory Science or Area IV: Social/Behavioral Sciences		3-4
Area V: Humanities		3
Area VI: Creative and Fine Arts		3
Area VII: Flexible (General Education Elective(s)		3-4
INSTITUTIONAL REQUIREMENTS		
FYEX1111 Introduction to College Studies Introduction to College Studies		4-6
or FYEX1110 First-Year Seminar First-Year Seminar		
or HNRS1115 Honors First Year Seminar Honors First Year Seminar		
MATH1215 Intermediate Algebra Intermediate Algebra		
Electives to bring the total credits to 60		25-19
Total Hours		60

Curriculum Notes

1. See the General Education section of the catalog for a full list of courses.

2. Course required for new students or transfer students with less the 30 credit hours. Course may be waived if a student has completed 30 or more credit hours. If course is waived additional elective courses will be needed to meet the minimum hours required for the degree.

3. Any course which will bring total credits for the degree to 60. Additional courses may be required if FYEX 1111 is waived.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Associate in General Studies
Total Degree Map Credits
0

ANURS 2526 - Nursing

Overview

The nursing curriculum of Southeast New Mexico College prepares students for beginning nursing practice in a variety of health care settings.

The program is approved by the New Mexico Board of Nursing, view the public information disclosed by the NM BON at https://bon.nm.gov/.

The 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)

3390 Peachtree Road NE, Suite 1400

Atlanta, GA 30326

(404) 975-5000

acenursing.org

Upon completion of the Associate 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.

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Program Contacts

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Program Outcomes

1. Utilize the nursing process, clinical judgment, evidenced based information and knowledge from the arts and sciences to provide safe client centered care.

2. Coordinate and collaborate effectively through verbal, nonverbal, and technological means with individuals, families and the interdisciplinary team.

3. Integrate accountability and responsibility for practice within the legal and ethical standards of the nursing profession.

4. Apply the principles of delegation, management and leadership in providing client centered care.

5. Participate in activities that promote professional development and personal growth.

Program Entrance

Program Entrance Requirements

BIOL2210C Human Anatomy and Physiology I Lecture & Laboratory Human Anatomy and Physiology I Lecture & Laboratory

CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors) Introduction to Chemistry Lecture and Laboratory (non-majors).

NA101 Nursing Assistant Theory and Lab Nursing Assistant Theory and Lab

NURS150 Medical Terminology Medical Terminology

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 last Monday in May. Packets are available in the Nursing Administration Office in the Allied Health Building and online at senmc.edu

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.

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	EXAMPLE OF NECESSARY ACTIVITIES
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, workspaces, 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 the patient/client.
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.	

Graduation Requirements

Graduation Requirements

15 credit hour Residency Requirement, Minimum GPA of 2.75

Required Courses

Associate

Free Form Requirements

GENERAL EDUCATION	16-17
Course required from Area I, II, III, IV, and VII.	
Area I: Communications	
ENGL1110G Composition I Composition I (Technical Requirement)	
Area II: Mathematics	
MATH1130G Survey of Mathematics Survey of Mathematics (Technical Requirement)	
or MATH1220G College Algebra College Algebra	
Area III: Laboratory Science	
CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors) Introduction to Chemistry Lecture and Laboratory (non majors) (Technical Requirement)	
Area IV: Social/Behavioral Sciences	
CEPY1120G Human Growth and Behavior Human Growth and Behavior (Technical Requirement)	
Area VII: Flexible (General Education Elective(s)	
PSYC1110G Introduction to Psychology Introduction to Psychology (Technical Requirement)	
INSTITUTIONAL REQUIREMENTS	5-8
FYEX1111 Introduction to College Studies Introduction to College Studies or FYEX1110 First-Year Seminar First-Year Seminar or HNRS1115 Honors First Year Seminar Honors First Year Seminar	
MATH1215 Intermediate Algebra Intermediate Algebra (Program Prerequisites)	
NURS155 Special Topics Special Topics	
TECHNICAL REQUIREMENTS	
Freshman Year Courses	
BIOL2225C Human Anatomy and Physiology II Lecture and Laboratory Human Anatomy and Physiology II Lecture and Laboratory	4
NURS153 Medication and Dosage Calculation Medication and Dosage Calculation	1
NURS154 Physical Assessment Physical Assessment	2
NURS156 Basic Nursing Theory and Practice Basic Nursing Theory and Practice	6
NURS157 Maternal/Child Health Deviations Maternal/Child Health Deviations	8
NURS210 Pharmacological Requisites of the Childbearing Family Pharmacological Requisites of the Childbearing Family	1
Sophomore Year Courses	
NURS211 Pharmacological Requisites of Simple Health Deviations Pharmacological Requisites of Simple Health Deviations	1
NURS246 Health Deviations I Health Deviations I	7

NURS258 Psychosocial Requisites: A Deficit Approach Psychosocial Requisites: A Deficit Approach		3
NURS212 Pharmacological Requisites of Complex Health Deviations Pharmacological Requisites of Complex Health Deviations		1
NURS256 Health Deviations II Health Deviations II		8
NURS260 Management of Patients with Health Deviations Management of Patients with Health Deviations		2
Program Prerequisites		9
BIOL2210C Human Anatomy and Physiology I Lecture & Laboratory Human Anatomy and Physiology I Lecture & Laboratory		
NA101 Nursing Assistant Theory and Lab Nursing Assistant Theory and Lab (or Current CNA certificate)		
NURS150 Medical Terminology Medical Terminology		
Total Hours		**74-78**

Curriculum Notes

All courses that are part of the nursing curriculum must be completed with a C or higher with an overall GPA of 2.75.

Students must be formally accepted into the nursing program to enroll in courses listed under "Nursing Program Requirements."

Some out of state travel is required for certain clinical experiences.

NURS 155 are optional tutorial courses, but highly encouraged for students to include in their coursework

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Nursing - Associate
Total Degree Map Credits
75 - 77

Year	Semester	Actual Credits
Year 1	Fall	17

- Course Set Not Found

Actual Credits CHEM 1120G, BIOL 2210C, NA 101, NURS 150 17

Year	Semester	Actual Credits
Year 1	Fall	17 - 19

- NURS 153 - Medication and Dosage Calculation

Actual Credits - 1

- NURS 154 - Physical Assessment

Actual Credits - 2

- NURS 156 - Basic Nursing Theory and Practice

Actual Credits - 6

- PSYC 1110G - Introduction to Psychology

Actual Credits - 3

- BIOL 2225C - Human Anatomy and Physiology II Lecture and Laboratory

Actual Credits - 4

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits May be waived if student has 30 or more transfer credits. 1 - 3

- NURS 155 - Special Topics

Actual Credits If needed -

Year	Semester	Actual Credits
Year 1	Spring	16

- ENGL 1110G - Composition I

Actual Credits - 4

- CEPY 1120G - Human Growth and Behavior

Actual Credits - 3

- NURS 157 - Maternal/Child Health Deviations

Actual Credits - 8

- NURS 210 - Pharmacological Requisites of the Childbearing Family

Actual Credits - 1

Year	Semester	Actual Credits
Year 2	Fall	14

- MATH 1130G - Survey of Mathematics
  OR
- MATH 1220G - College Algebra

	-
Actual Credits	3

- NURS 211 - Pharmacological Requisites of Simple Health Deviations

	-
Actual Credits	1

- NURS 246 - Health Deviations I

	-
Actual Credits	7

- NURS 258 - Psychosocial Requisites: A Deficit Approach

	-
Actual Credits	3

- NURS 155 - Special Topics

	If needed
Actual Credits	-

Year	Semester	Actual Credits
Year 2	Spring	11

- NURS 212 - Pharmacological Requisites of Complex Health Deviations

	-
Actual Credits	1

- NURS 256 - Health Deviations II

	-
Actual Credits	8

- NURS 260 - Management of Patients with Health Deviations

	-
Actual Credits	2

Program Outcomes

1. Be able to evaluate financial reports and perform financial analysis.

2. Incorporate the decision-making process in comparing and contrasting different managerial decisions.

3. Critique and analyze different economic theories, principles and formulas.

4. Communicate both verbally and written to effectively and efficiently convey business concepts.

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate

APB PB - Prebusiness

Overview

Pre-Business - Associate in Pre-Business
[object Object]

Program Contacts
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Free Form Requirements

GENERAL EDUCATION		
Area I: Communications		
English Composition - Level 1		3-4
ENGL1110G Composition I Composition I (Core Curriculum Requirement)		
English Composition - Level 2		3
ENGL2210G Professional & Technical Communication Professional & Technical Communication (Core Curriculum Requirement)		
Oral Communication		3
COMM1115G Introduction to Communication Communication		
or COMM1130G Public Speaking Public Speaking		
Area II: Mathematics		3
MATH1220G College Algebra College Algebra (Core Curriculum Requirement)		
Area III: Laboratory Science		4
Area IV: Social/Behavioral Sciences		6
ECON2110G Macroeconomic Principles Macroeconomic Principles (Core Requirement-Grade C- or higher)		
ECON2120G Microeconomic Principles Microeconomic Principles (Core Requirement-Grade C- or higher)		
Area V: Humanities		3
Area VI: Creative and Fine Arts		3
Area VII: Flexible (General Education Elective(s)		3
MATH1430G Applications of Calculus I Applications of Calculus I (Core Curriculum Requirement-Grade C- or higher)		
INSTITUTIONAL REQUIREMENTS		4-6
FYEX1111 Introduction to College Studies Introduction to College Studies		
or FYEX1110 First-Year Seminar First-Year Seminar		
or HNRS1115 Honors First Year Seminar Honors First Year Seminar		
MATH1215 Intermediate Algebra Intermediate Algebra		
CORE CURRICULUM REQUIREMENTS		
ACCT2110 Principles of Accounting I (Financial) Principles of Accounting I (Financial)		3
ACCT2120 Principles of Accounting II (Managerial) Principles of Accounting II (Managerial)		3
BCIS1110 Fundamentals of Information Literacy and Systems Fundamentals of Information Literacy and Systems		3
BUSA1110 Introduction to Business Introduction to Business		3
MATH1350G Introduction to Statistics Introduction to Statistics (grade of C- or better)		3
Electives, to bring the total credits to 60		**10-7**

Total Hours		**60**

Curriculum Notes

1. Students may be required to take MATH 1215 Intermediate Algebra, depending on their math placement. If required, this course will count towards electives.

2. See the General Education section of the catalog for a full list of courses.

3. Elective credit may vary based on 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.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Pre-Business - Associate in Pre-Business
Total Degree Map Credits
57

Year	Semester	Actual Credits
Year 1	Fall	13 - 16

- ENGL 1110G - Composition I

Actual Credits Area I, Level 1 3 - 4

- Course Set Not Found

Actual Credits - -

- BCIS 1110 - Fundamentals of Information Literacy and Systems

Actual Credits - 3

- BUSA 1110 - Introduction to Business

Actual Credits - 3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits May be waived if student has 30 or more transfer credits. 1 - 3

- MATH 1215 - Intermediate Algebra

Actual Credits - 3

Year	Semester	Actual Credits
Year 1	Spring	15

- ENGL 2210G - Professional & Technical Communication

Actual Credits Area I, Level 2 3

- COMM 1115G - Introduction to Communication
  OR
- COMM 1130G - Public Speaking

Actual Credits Area I, Oral Communication 3

- MATH 1220G - College Algebra

Actual Credits Area II 3

- ECON 2110G - Macroeconomic Principles

Actual Credits Area IV 3

- Area V: Humanities

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Fall	13

- ACCT 2110 - Principles of Accounting I (Financial)

Actual Credits - 3

- MATH 1430G - Applications of Calculus I

Actual Credits Area VII 3

- Area III: Laboratory Science

Actual Credits - 4

- Electives - All

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Spring	16 - 13

- ACCT 2120 - Principles of Accounting II (Managerial)

Actual Credits - 3

- ECON 2120G - Microeconomic Principles

Actual Credits Area IV 3

• MATH 1350G - Introduction to Statistics	
Actual Credits	- 3

• Electives - All	
Actual Credits	- 7 - 4

AS ENGR25 - Engineering - Associate of Science

Overview

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.

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Program Contacts
[object Object], [object Object]

Program Outcomes

1. Students will be able to communicate effectively about engineering (e.g., write lab reports in standard format and explain basic scientific concepts, procedures, and results using written, oral, and graphic presentation techniques).

2. Students will be able to construct and test hypotheses using modern electronics and electrical laboratory equipment and appropriate quantitative methods.

3. Students should be able to solve basic engineering problems.

4. A student's engineering inquiry process involves observing and evaluating their ability to navigate through the different stages of the engineering design process, including defining a problem, researching, brainstorming, prototyping and testing.

5. Students will be able to select and perform appropriate quantitative analyses of scientific observations. Students should show familiarity with the metric system, use a calculator to perform appropriate mathematical operations, and present results in tables and graphs.

6. Critically evaluate engineering reports or accounts presented in the popular media, understand the basic engineering facts related to important contemporary issues (e.g., limited energy resources, renewable energy research, digital design and communication research), and ask informed questions about those issues.

Graduation Requirements

Graduation Requirements
ENGL1110G Composition I 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 65 credits for the associate's degree must be completed at SENMC.

All courses must be completed with a C or higher.

Required Courses

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.

Free Form Requirements

GENERAL EDUCATION	
Area I: Communications English Composition - Level 1 ENGL1110G Composition I Composition I (Core Requirement)	3-4
English Composition - Level 2 ENGL2210G Professional & Technical Communication Professional & Technical Communication (Core Requirement) or ENGL2221G Writing in the Humanities and Social Science Writing in the Humanities and Social Science	3
Area II: Mathematics MATH1220G College Algebra College Algebra (Core Curriculum Requirement)	3
Area III: Laboratory Science CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors General Chemistry I Lecture and Laboratory for STEM majors (Core Curriculum Requirement) and PHYS1310G Calculus -Based Physics I Calculus -Based Physics I & PHYS1310L Calculus - Based Physics I Laboratory Calculus - Based Physics I Laboratory (Core Curriculum Requirement) and PHYS1320G Calculus-Based Physics II Calculus-Based Physics II & PHYS1320L Calculus-Based Physics II Laboratory Calculus-Based Physics II Laboratory (Core Curriculum Requirement)	12
Area IV: Social/Behavioral Sciences	3
Area V: Humanities	3
Area VI: Creative and Fine Arts	3
Area VII: Flexible (General Education Elective(s) MATH1250G Trigonometry & Pre-Calculus Trigonometry & Pre-Calculus (Core Requirement)	4
INSTITUTIONAL REQUIREMENTS	
FYEX1111 Introduction to College Studies Introduction to College Studies or FYEX1110 First-Year Seminar First-Year Seminar or HNRS1115 Honors First Year Seminar Honors First Year Seminar	1-3
CORE CURRICULUM REQUIREMENTS	
ENGR100G Introduction to Engineering (L) Introduction to Engineering (L)	3
ENGR111 Mathematics for Engineering Applications Programming for Engineering Applications	3
ENGR120 DC Circuit Analysis (L) DC Circuit Analysis (L)	4
ENGR130 Digital Logic Digital Logic	4
ENGR140 Introduction to Programming and Embedded Systems (L) Introduction to Programming and Embedded Systems (L)	4

ENGR230 AC Circuit Analysis AC Circuit Analysis		4
MATH1511G Calculus and Analytic Geometry I Calculus and Analytic Geometry I		4
MATH1521G Calculus and Analytic Geometry II Calculus and Analytic Geometry II		4
Electives, if needed to bring the total credits to 65 CE151 Introduction to Civil Engineering Introduction to Civil Engineering CE233 Mechanics-Statics Mechanics-Statics IE151 Computational Methods in Industrial Engineering Computational Methods in Industrial Engineering IE217 Manufacturing Processes Manufacturing Processes MATH1215 Intermediate Algebra Intermediate Algebra ME159 Graphical Communication and Design Graphical Communication and Design ME210 Electronics and System Engineering Electronics and System Engineering		
Total Hours		**65-68**

Curriculum Notes

1. Developmental courses and/or MATH 1215 may be needed before taking MATH 1220G.

2. Course is a Core Curriculum Requirement and must be completed regardless of transfer credit awarded.

3. If students test into a higher-level MATH listed below, course may be waived, but electives will be needed to bring total credits for degree to 65.

MATH 1250G Trigonometry & Pre-Calculus
MATH 1511G Calculus and Analytic Geometry I
MATH 1521G Calculus and Analytic Geometry II

4. See the General Education section of the catalog for a full list of courses.

5. FYEX 1111 is required for new students or transfer students with less the 30 credit hours. Course may be waived if a student has completed 30 or more credit hours. If course is waived additional elective courses will be needed to meet the minimum hours required for the degree.

6. Any course, if needed, from the list below which will bring total credits for the degree to 65.

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
MATH 1215 Intermediate Algebra
M E 159 Graphical Communication and Design
M E 210 Electronics and System Engineering

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Engineering - Associate of Science

Total Degree Map Credits
65 - 68

Year	Semester	Actual Credits
Year 1	Summer	6

- MATH 1220G - College Algebra

Area II
Actual Credits 3

- Course Set Not Found

-
Actual Credits 3

Year	Semester	Actual Credits
Year 1	Fall	15 - 18

- ENGL 1110G - Composition I

Area I, Level 1
Actual Credits 3 - 4

- MATH 1250G - Trigonometry & Pre-Calculus

Area VII
Actual Credits 4

- ENGR 100G - Introduction to Engineering (L)

-
Actual Credits 3

- ENGR 130 - Digital Logic

-
Actual Credits 4

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

-
Actual Credits 1 - 3

Year	Semester	Actual Credits
Year 1	Spring	17

- ENGL 2210G - Professional & Technical Communication
  OR
- ENGL 2221G - Writing in the Humanities and Social Science

Area I, Level 2
Actual Credits 3

- CHEM 1215G - General Chemistry I Lecture and Laboratory for STEM majors

Area III
Actual Credits 4

- Area IV: Social/Behavioral Sciences

	-
Actual Credits	3

- ENGR 111 - Mathematics for Engineering Applications

	-
Actual Credits	3

- MATH 1511G - Calculus and Analytic Geometry I

	-
Actual Credits	4

Year	Semester	Actual Credits
Year 2	Fall	15

- ENGR 120 - DC Circuit Analysis (L)

	-
Actual Credits	4

- MATH 1521G - Calculus and Analytic Geometry II

	-
Actual Credits	4

- PHYS 1310G - Calculus -Based Physics I
- **AND** PHYS 1310L - Calculus - Based Physics I Laboratory

	-
Actual Credits	4

- Area V: Humanities

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 2	Spring	12

- ENGR 140 - Introduction to Programming and Embedded Systems (L)

	-
Actual Credits	4

- ENGR 230 - AC Circuit Analysis

	-
Actual Credits	4

- PHYS 1320G - Calculus-Based Physics II
- **AND** PHYS 1320L - Calculus-Based Physics II Laboratory

	Area III
Actual Credits	4

- Course Set Not Found

	Electives, if needed to bring the total credits to 65
Actual Credits	-

AS SCI - Science

Overview

Associate of Science Degree
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Analyze scientific problems using the scientific method.

2. Evaluate scientific information in relation to real world problems.

3. Communicate scientific information.

4. Use appropriate tools to measure objects using SI units.

5. Demonstrate knowledge of laboratory safety skills and procedures.

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate of Science

Free Form Requirements

GENERAL EDUCATION		
Area I: Communications		
English Composition - Level 1		
ENGL1110G Composition I Composition I		3-4
English Composition - Level 2		
ENGL2210G Professional & Technical Communication Professional & Technical Communication		3
or ENGL2221G Writing in the Humanities and Social Science Writing in the Humanities and Social Science		
Oral Communication		3
COMM1130G Public Speaking Public Speaking		
or COMM1115G Introduction to Communication Communication		
Area II: Mathematics		3
MATH1220G College Algebra College Algebra		
Area III: Laboratory Science		8
CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors General Chemistry I Lecture and Laboratory for STEM majors		
CHEM1225G General Chemistry II Lecture and Laboratory for STEM Majors General Chemistry II Lecture and Laboratory for STEM Majors		
Area IV: Social/Behavioral Sciences		3
Area V: Humanities		3
Area VI: Creative and Fine Arts		3
Area VII: Flexible (General Education Elective(s)		4
Choose an additional course from Area III: Laboratory Sciences.		
INSTITUTIONAL REQUIREMENTS		4-6
FYEX1111 Introduction to College Studies Introduction to College Studies		
or FYEX1110 First-Year Seminar First-Year Seminar		
or HNRS1115 Honors First Year Seminar Honors First Year Seminar		
MATH1215 Intermediate Algebra Intermediate Algebra		
CORE CURRICULUM REQUIREMENTS		
Laboratory Science courses from ASTR, BIOL, CHEM, ENVS, GEOL, PHYS		20
Electives to bring the total credits to 61		4-1
Total Hours		**61**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name

Associate of Science Degree

Total Degree Map Credits

58

Year	Semester	Actual Credits
Year 1	Fall	14 - 17

- ENGL 1110G - Composition I

Actual Credits Area I, Level 1 3 - 4

- Area IV: Social/Behavioral Sciences

Actual Credits - 3

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits - 1 - 3

- Course Set Not Found

Actual Credits - 4

- MATH 1215 - Intermediate Algebra

Actual Credits - 3

Year	Semester	Actual Credits
Year 1	Spring	13

- MATH 1220G - College Algebra

Actual Credits Area II 3

- COMM 1115G - Introduction to Communication
  OR
- COMM 1130G - Public Speaking

Actual Credits Area I, Oral Communication 3

- CHEM 1215G - General Chemistry I Lecture and Laboratory for STEM majors

Actual Credits Area III 4

- Area V: Humanities

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Fall	15

- ENGL 2210G - Professional & Technical Communication
  OR
- ENGL 2221G - Writing in the Humanities and Social Science

Area I, Level 2

Actual Credits 3

- CHEM 1225G - General Chemistry II Lecture and Laboratory for STEM Majors

Area III

Actual Credits 4

- Course Set Not Found

-

Actual Credits 4

- Course Set Not Found

-

Actual Credits 4

- Course Set Not Found

-

Actual Credits -

Year	Semester	Actual Credits
Year 2	Spring	16 - 13

- Area VII: Flexible 3 (General Education Elective)

Choose an additional course from Area III

Actual Credits 4

- Course Set Not Found

-

Actual Credits 4

- Course Set Not Found

-

Actual Credits 4

- Electives - All

-

Actual Credits 4 - 1

Program Outcomes

1. Articulate a basic understanding of the social work profession, its history, career opportunities, and contemporary issues facing social workers in the United States today.

2. Write and speak effectively in a professional environment where you will be expected to interact and successfully work with others.

3. Use critical thinking, skeptical inquiry, and the scientific method to weigh evidence and solve problems related to the social and behavioral sciences.

4. Discuss the impact of cultural factors, diversity and dimensions of identity as it relates to social work.

Program Entrance

Essential Eligibility Requirements

1. Course is a Core Requirement and must be completed regardless of transfer credits awarded.
2. See the General Education section of the catalog for a full list of courses.

Graduation Requirements

Graduation Requirements

15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Associate

ASW SW - Social Work

Overview

Social Work - Associate Degree
[object Object]

Program Contacts
[object Object]

Free Form Requirements

GENERAL EDUCATION		
Area I: Communications		
English Composition - Level 1		3-4
ENGL1110G Composition I Composition I (Core Requirement)		
English Composition - Level 2		3
ENGL2210G Professional & Technical Communication Professional & Technical Communication (Core Requirement)		
or ENGL2221G Writing in the Humanities and Social Science Writing in the Humanities and Social Science		
Oral Communication		3
COMM1130G Public Speaking Public Speaking		
or COMM1115G Introduction to Communication Communication		
Area II: Mathematics		3
MATH1220G College Algebra College Algebra (Recommended)		
Area III: Laboratory Science		4
Area IV: Social/Behavioral Sciences		6
PSYC1110G Introduction to Psychology Introduction to Psychology		
SOWK2110G Introduction to Human Services and Social Work Introduction to Human Services and Social Work		
Area V: Humanities		3
Choose any PHIL courses from Area V (Core Curriculum Requirement)		
Area VI: Creative and Fine Arts		3
Area VII: Flexible (General Education Elective(s)		3
SOCI2310G Contemporary Social Problems Contemporary Social Problems		
INSTITUTIONAL REQUIREMENTS		4-6
FYEX1111 Introduction to College Studies - Introduction to College Studies		
or FYEX1110 First-Year Seminar First-Year Seminar		
or HNRS1115 Honors First Year Seminar Honors First Year Seminar		
MATH1215 Intermediate Algebra Intermediate Algebra		
CORE CURRICULUM REQUIREMENTS		
BCIS1110 Fundamentals of Information Literacy and Systems Fundamentals of Information Literacy and Systems		3
HMSV2110 Case Management Case Management		3
PSYC2221 Applied Psychology Applied Psychology		3
or PSYC2230 Psychology of Adjustment Psychology of Adjustment		
SPAN1110 Spanish I Spanish I		4
SPAN1120 Spanish II Spanish II		4

ELECTIVES TO BRING THE TOTAL CREDITS TO 60		8-5
Recommended		
CEPY1120G Human Growth and Behavior Human Growth and Behavior		
MATH1220G College Algebra College Algebra		
SOCI1110G Introduction to Sociology Introduction to Sociology		
Total Hours		**60**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Social Work - Associate Degree
Total Degree Map Credits
60 - 62

Year	Semester	Actual Credits
Year 1	Fall	14 - 16

- FYEX 1111 - Introduction to College Studies
  OR
- FYEX 1110 - First-Year Seminar
  OR
- HNRS 1115 - Honors First Year Seminar

Actual Credits - 1 - 3

- BCIS 1110 - Fundamentals of Information Literacy and Systems

Actual Credits - 3

- SOWK 2110G - Introduction to Human Services and Social Work

Actual Credits - 3

- ENGL 1110G - Composition I

Actual Credits - 4

- Electives - All

Actual Credits - 3

Year	Semester	Actual Credits
Year 1	Spring	13

- Area III: Laboratory Science

Actual Credits - 4

- ENGL 2210G - Professional & Technical Communication
  OR
- ENGL 2221G - Writing in the Humanities and Social Science

Actual Credits - 3

- Area II: Mathematics

Actual Credits - 3

- PSYC 1110G - Introduction to Psychology

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Fall	16

- SPAN 1110 - Spanish I

Actual Credits - 4

- Area V: Humanities

Actual Credits - 3

- COMM 1130G - Public Speaking
  OR
- COMM 1115G - Introduction to Communication

Actual Credits - 3

- Electives - All

Actual Credits - 3

- Area VI: Creative and Fine Arts

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Spring	17

- SPAN 1120 - Spanish II

Actual Credits - 4

- PSYC 2221 - Applied Psychology
  OR
- PSYC 2230 - Psychology of Adjustment

Actual Credits - 3

• HMSV 2110 - Case Management	
Actual Credits	- 3
• Electives - All	
Actual Credits	- 4
• SOCI 2310G - Contemporary Social Problems	
Actual Credits	- 3

C EMT I25 - Emergency Medical Technician - Intermediate Certificate

Overview

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.

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Program Contacts
[object Object]

Program Outcomes

1. Graduates will be proficient in providing pre-hospital emergency medical care, including basic and advanced life support, in compliance with New Mexico state EMS protocols.

2. Graduates will demonstrate the ability to accurately assess patient conditions, develop appropriate care plans, and implement interventions based on state EMS guidelines.

3. Graduates will be skilled in the use and maintenance of EMS equipment, ensuring all devices are used effectively and safely according to state standards.

4. Graduates will exhibit the ability to work collaboratively with other healthcare and emergency service professionals, ensuring seamless care transitions and effective communication, as expected by New Mexico state EMS policies.

5. Graduates will adhere to the highest ethical and legal standards in the practice of emergency medical services, upholding the responsibilities and scope of practice defined by New Mexico state laws.

6. Graduates will commit to ongoing learning and professional development, staying current with the latest EMS practices and technologies, as required by New Mexico state continuing education requirements.

Program Entrance

Program Entrance Requirements
Required Skills and Abilities

All EMS programs require that the student be able to:

- lift, carry and balance up to 120 pounds (250 pounds with assistance)
- carry out emergency and non-emergency patient care, including, light extrication (i.e., be able to assume a variety of postural positions and be capable of physical maneuvers ranging from crawling, kneeling, squatting, twisting, turning, and bending, to climbing stairs and ladders)
- withstand varied environmental conditions such as extreme heat, cold, and moisture

Program Entrance Requirements

EMT Intermediate

- Copy of current health care provider CPR card
- Successful completion of EMT Basic coursework
- Immunizations below are required before starting clinicals

- MMR twice since 1980 or Rubella and Rubeola titers

- TB screening with expiration past end of semester

- Varicella immunity (titer or proof of vaccination accepted)

- TDAP within 10 years

- Hepatitis B series or titers or declination waiver

- Flu shot if in season (October-March)

- COVID vaccination

EMT-Basic license in hand by the end of the sixth week of EMT-Intermediate classes

Graduation Requirements

Graduation Requirements
Graduation Requirements

Certificate in Emergency Medical Technician – Basic, Intermediate, and Paramedic: A cumulative GPA of 2.0 or higher. The minimum number of credits required to be completed at SENMC for each certificate is listed below:

EMT Intermediate minimum of 7 hours required

Required Courses

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.

Free Form Requirements

TECHNICAL REQUIREMENTS		
OEEM101 CPR for the Health Care Professional CPR for the Health Care Professional		1
OEEM1202425 Emergency Medical Technician Basic Emergency Medical Technician Basic		9
OEEM120 L Emergency Medical Technician Basic Lab Emergency Medical Technician Basic Lab		2
OEEM121 Emergency Medical Technician Basic Field/Clinical Emergency Medical Technician Basic Field/Clinical		1
OEEM150 2425 Emergency Medical Technician Intermediate Emergency Medical Technician Intermediate		6
OEEM150 L Emergency Medical Technician Intermediate Lab Emergency Medical Technician Intermediate Lab		2
OEEM151 Emergency Medical Technician Intermediate Field/Clinical Emergency Medical Technician Intermediate Field/Clinical		2
OEEM153 Introduction to Anatomy and Physiology for the EMS Provider Introduction to Anatomy and Physiology for the EMS Provider		3
OEEM207 Introduction to Pharmacology Introduction to Pharmacology		3
Total Hours		**29**

Curriculum Notes
1. Students must enroll in these courses concurrently and score at least 80% on all departmental exams.

2. Or Copy of current health care provider CPR card

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Emergency Medical Technician Intermediate - Certificate
Total Degree Map Credits
29

Year	Semester	Actual Credits
Year 1	Fall	16

- OEEM 101 - CPR for the Health Care Professional

Actual Credits -
1

- OEEM 1202425 - Emergency Medical Technician Basic

Actual Credits -
9

- OEEM 120 L - Emergency Medical Technician Basic Lab

Actual Credits -
2

- OEEM 121 - Emergency Medical Technician Basic Field/ Clinical

Actual Credits -
1

- OEEM 153 - Introduction to Anatomy and Physiology for the EMS Provider

Actual Credits -
3

Year	Semester	Actual Credits
Year 1	Spring	13

- OEEM150 2425 - Emergency Medical Technician Intermediate

Actual Credits -
6

- OEEM 150 L - Emergency Medical Technician Intermediate Lab

Actual Credits -
2

- OEEM 151 - Emergency Medical Technician Intermediate Field/Clinical

Actual Credits -
2

- OEEM 207 - Introduction to Pharmacology

Actual Credits -
3

C NA - Certified Nursing Assistant

Overview

[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Identify factors that promote safe, effective, age appropriate, ethical and culturally competent care.

2. Provide safe, effective, age appropriate, and culturally competent care in an ethical manner.

3. Perform basic nursing assistant skills related to various healthcare settings and various populations, respecting patient's mental health and social needs.

4. Communicate effectively with patients, families, and members of the healthcare team.

Required Courses

Certificate

Free Form Requirements

TECHNICAL REQUIREMENTS		6
NA101 Nursing Assistant Theory and Lab Nursing Assistant Theory and Lab		

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Certified Nursing Assistant
Total Degree Map Credits
6

Year	Semester	Actual Credits
Year 1	-	6
• NA 101 - Nursing Assistant Theory and Lab	-	
Actual Credits		6

C WT2526 - Welding Technology - Certificate

Overview

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.

[object Object]

Program Contacts
[object Object], [object Object]

Program Outcomes

1. Students will and employ all facets of safety used in the welding industry.

2. Show proficiency in identification in of electrode classifications and proper storage.

3. Perform welds and tests on various joints and positions.

4. Identify SMAW, GTAW, and GMAW power sources and their characteristics.

5. Maintain and Troubleshoot Power sources.

6. Analyze and Interpret Technical and welding drawings.

Graduation Requirements

Graduation Requirements
A cumulative GPA of 2.0 or higher. A minimum of 9 credits earned toward the certificate must be completed at SENMC.

Required Courses

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

Free Form Requirements

TECHNICAL REQUIREMENTS		
OETS118 Mathematics for Technicians Mathematics for Technicians		3
WELD1110 Introduction to Welding Fundamentals Introduction to Welding Fundamentals		3
WELD1120 Print Reading for Welders Print Reading for Welders		3
WELD1130 SMAW (Shielded Metal Arc Welding) I SMAW (Shielded Metal Arc Welding) I		6
WELD1140 GMAW (Gas Metal Arc Welding) I Gas Metal Arc Welding I		3
WELD1155 GTAW (Gas Tungsten Arc Welding) I GTAW (Gas Tungsten Arc Welding) I		3
WELD1220 Pipe Welding I Pipe Welding I		3
WELD2130 SMAW (Shielded Metal Arc Welding) II SMAW II		6
WELD2220 Pipe Welding II Pipe Welding II		3
Total Hours		**33**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Welding Technology - Certificate
Total Degree Map Credits
33

Year	Semester	Actual Credits
Year 1	Fall	12

- OETS 118 - Mathematics for Technicians

Actual Credits - 3

- WELD 1110 - Introduction to Welding Fundamentals

Actual Credits - 3

- WELD 1140 - GMAW (Gas Metal Arc Welding) I

Actual Credits - 3

- WELD 1155 - GTAW (Gas Tungsten Arc Welding) I

Actual Credits - 3

Year	Semester	Actual Credits
Year 1	Spring	12

- WELD 1120 - Print Reading for Welders

Actual Credits - 3

- WELD 1130 - SMAW (Shielded Metal Arc Welding) I

Actual Credits - 6

- WELD 1220 - Pipe Welding I

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Fall	9

- WELD 2130 - SMAW (Shielded Metal Arc Welding) II

Actual Credits - 6

- WELD 2220 - Pipe Welding II

Actual Credits - 3

CC PRENURS - Pre-Nursing

Overview

Pre-Nursing - Certificate of Completion
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Provides students the knowledge and course work needed to apply for admissions to the Nursing program.

2. Prepares students to take the state Nursing Assistant Certification.

Graduation Requirements

Graduation Requirements
9 credit hour Residency Requirement, Minimum GPA 2.75

Required Courses

Certificate of Completion

Free Form Requirements
Completion of the Pre-Nursing Certificate qualifies a student a student to apply to the Nursing program but does not guarantee admission nor can it be used for gainful employment.

BIOL2210C Human Anatomy and Physiology I Lecture & Laboratory Human Anatomy and Physiology I Lecture & Laboratory	4
BIOL2225C Human Anatomy and Physiology II Lecture and Laboratory Human Anatomy and Physiology II Lecture and Laboratory	4
CEPY1120G Human Growth and Behavior Human Growth and Behavior	3
CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors) Introduction to Chemistry Lecture and Laboratory (non majors)	4
ENGL1110G Composition I Composition I	4
MATH1130G Survey of Mathematics Survey of Mathematics	3
or MATH1220G College Algebra College Algebra	
NA101 Nursing Assistant Theory and Lab Nursing Assistant Theory and Lab	6
NURS150 Medical Terminology Medical Terminology	3
PSYC1110G Introduction to Psychology Introduction to Psychology	3
Total Hours	**34**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Pre-Nursing - Certificate of Completion
Total Degree Map Credits
34

Year	Semester	Actual Credits
Year 1	Fall	17

- CHEM 1120G - Introduction to Chemistry Lecture and Laboratory (non majors)

Actual Credits -
4

- BIOL 2210C - Human Anatomy and Physiology I Lecture & Laboratory

Actual Credits -
4

- NA 101 - Nursing Assistant Theory and Lab

Actual Credits -
6

- NURS 150 - Medical Terminology

Actual Credits -
3

Year	Semester	Actual Credits
Year 1	Spring	14

- BIOL 2225C - Human Anatomy and Physiology II Lecture and Laboratory

Actual Credits -
4

- ENGL 1110G - Composition I

Actual Credits -
4

- CEPY 1120G - Human Growth and Behavior

Actual Credits -
3

- MATH 1130G - Survey of Mathematics
  OR
- MATH 1220G - College Algebra

Actual Credits -
3

Year	Semester	Actual Credits
Year 1	Summer	3

- PSYC 1110G - Introduction to Psychology

Actual Credits -
3

-

Actual Credits -
-

CC PRESURG - Pre-Surgical Technology

Overview

Pre-Surgical Technology - Certificate of Completion
[object Object]

Program Contacts
[object Object]

Graduation Requirements

Graduation Requirements
15 hour Residency Requirement, Minimum GPA 2.00

Required Courses

Certificate of Completion

Free Form Requirements

TECHNICAL REQUIREMENTS		
Area I: Communications		3-4
Area II: Mathematics		3
or Area IV: Social/Behavioral Sciences		
Area III: Laboratory Science		4
CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors) Introduction to Chemistry Lecture and Laboratory (non-majors)		
or CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors General Chemistry I Lecture and Laboratory for STEM majors		
Area V: Humanities		3
or Area VI: Creative and Fine Arts		
BIOL2210C Human Anatomy and Physiology I Lecture & Laboratory Human Anatomy and Physiology I Lecture & Laboratory		4
BIOL2225C Human Anatomy and Physiology II Lecture and Laboratory Human Anatomy and Physiology II Lecture and Laboratory		4
BIOL2310 Microbiology Microbiology		3
BIOL2310L Microbiology Laboratory Microbiology Laboratory		1
HIT150 Introduction to Medical Terminology/OATS150 Medical Terminology/HIT150 Introduction to Medical Terminology Introduction to Medical Terminology		3
Total Hours		**28-29**

Curriculum Notes

1. See General Education section of the catalog.
2. Each course must be from a different Area.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Pre-Surgical Technology - Certificate of Completion
Total Degree Map Credits
25 - 26

Year	Semester	Actual Credits
Year 1	Fall	13 - 14

- Area I: Communications

Actual Credits -
3 - 4

- BIOL 2210C - Human Anatomy and Physiology I Lecture & Laboratory

Actual Credits -
4

- HIT 150 - Introduction to Medical Terminology
  OR
- OATS 150 - Medical Terminology
  OR
- NURS 150 - Medical Terminology

Actual Credits -
3

- Area II: Mathematics
  OR
- Area IV: Social/Behavioral Sciences

Actual Credits -
3

Year	Semester	Actual Credits
Year 1	Spring	8

- CHEM 1120G - Introduction to Chemistry Lecture and Laboratory (non majors)
  OR
- CHEM 1215G - General Chemistry I Lecture and Laboratory for STEM majors

Actual Credits Area III
4

- Course Set Not Found

Actual Credits -
-

- BIOL 2225C - Human Anatomy and Physiology II Lecture and Laboratory

Actual Credits -
4

Year	Semester	Actual Credits
Year 1	Summer	4

- BIOL 2310 - Microbiology

Actual Credits -
3

- BIOL 2310L - Microbiology Laboratory

Actual Credits -
1

COA PT - Phlebotomist Technician

Overview

Phlebotomist Technician - Certificate of Achievement
[object Object]

Program Contacts
[object Object], [object Object]

Program Outcomes

1. Identify phlebotomists roles, functions, and responsibilities according to healthcare regulation.

2. Identify basic anatomy and physiology of the human body as it relates to specimen collection.

3. Identify medical terminology as is relates to phlebotomy.

4. Identify standard precautions and infection control protocols when collecting specimen.

5. Describe the additive and types of tests performed on the most commonly used collection tubes.

6. Identify variables that affect procedures and results; take appropriate corrective action when needed.

7. Demonstrate safe specimen collection from patients of all ages using a variety of equipment while adhering to healthcare regulations and facility protocol.

8. Perform preventative and corrective maintenance on equipment and instruments according to vendor care.

9. Demonstrate effective verbal and nonverbal communication skills when interacting with patients, families and healthcare team members.

10. Demonstrate proficiency in providing fundamental patient care in a safe, professional manner.

11. 11. Meet requirements to sit for the Phlebotomist Certification Exam, Including 100 clinical hours (10 lab hours+90 rotation hours) and 100 successful unassisted venipunctures.

Graduation Requirements

Graduation Requirements

Residency Requirement, Minimum GPA 2.00

Required Courses

Certificate of Achievement

Free Form Requirements

TECHNICAL REQUIREMENT		
NA115 Phlebotomist Technician Phlebotomist Technician		6

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name

Phlebotomist Technician

Total Degree Map Credits

6

Year	Semester	Actual Credits
Year 1	-	6

- NA 115 - Phlebotomist Technician

	-
Actual Credits	6

COC AT2526 - Automotive Technology

Overview

[object Object]

Program Contacts

[object Object], [object Object]

Program Outcomes

1. Graduates will demonstrate competence in the use of general and highly specialized tools and equipment.

2. Graduates will read and comprehend technical information and materials from printed and electronic sources relevant to the diagnosis and repair of automotive systems.

3. Graduates will apply technical knowledge and skills to repair, service, and maintain all types of Automobiles.

4. Graduates will demonstrate ability in inspecting and repairing brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drive trains, and heating and air condition systems.

Required Courses

Certificate of Completion

Free Form Requirements

TECHNICAL REQUIREMENTS		
AUTO112 Basic Gasoline Engines Basic Gasoline Engines		5
AUTO117 Electronic Analysis and Tune-Up of Gasoline Engines Electronic Analysis and Tune-Up of Gasoline Engines		5
AUTO119 Manual Transmission/Clutch Manual Transmission/Clutch		5
AUTO120 Electrical Systems Electrical Systems		4
AUTO125 Brakes Brakes		5
AUTO126 Suspension, Steering, and Alignment Suspension, Steering, and Alignment		5
AUTO127 Basic Automatic Transmission Basic Automatic Transmission		4
or AUTO132 Automotive Air-Conditioning and Heating Systems Automotive Air-Conditioning and Heating Systems		
AUTO137 Fuel Systems and Emission Controls Fuel Systems and Emission Controls		4
Total Hours		37

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Automotive Technology - Certificate of Completion
Total Degree Map Credits
37

Year	Semester	Actual Credits
Year 1	Fall	10

- AUTO 112 - Basic Gasoline Engines

Actual Credits -
5

- AUTO 125 - Brakes

Actual Credits -
5

Year	Semester	Actual Credits
Year 1	Spring	9

- AUTO 120 - Electrical Systems

Actual Credits -
4

- AUTO 126 - Suspension, Steering, and Alignment

Actual Credits -
5

Year	Semester	Actual Credits
Year 2	Fall	9

- AUTO 117 - Electronic Analysis and Tune-Up of Gasoline Engines

Actual Credits -
5

- AUTO 132 - Automotive Air-Conditioning and Heating Systems

Must be taken in second year Fall or AUTO 127 in second year Spring.
Actual Credits 4

Year	Semester	Actual Credits
Year 2	Spring	9

- AUTO 119 - Manual Transmission/Clutch

Actual Credits -
5

- AUTO 127 - Basic Automatic Transmission

Must be taken if AUTO 132 was not completed in second year Fall.
Actual Credits -

- AUTO 137 - Fuel Systems and Emission Controls

Actual Credits -
4

COC BOT - Business Office Technology

Overview

Business Office Technology - Certificate
[object Object]

Program Contacts
[object Object]

Graduation Requirements

Graduation Requirements
Residency Requirement, Minimum GPA 2.00

Required Courses

Certificate

Free Form Requirements

TECHNICAL REQUIREMENTS	
ACCT2115 Survey of Accounting Survey of Accounting	3
BCIS1110 Fundamentals of Information Literacy and Systems Fundamentals of Information Literacy and Systems	3
BCIS1220 Introduction to MS Word Introduction to MS Word	3
BCIS2215 MS EXCEL MS Excel	3
BLAW2110 Business Law I Business Law I	3
BUSA1110 Introduction to Business Introduction to Business	3
BUSA1210 Records Management Records Management	3
ENGL1110G Composition I Composition I	4
ENGL2210G Professional & Technical Communication Professional & Technical Communication	3
OTEC1102 Keyboard Skillbuilding Keyboard Skillbuilding	3
Total Hours	**31**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Business Office Technology - Certificate
Total Degree Map Credits
31

Year	Semester	Actual Credits
Year 1	Fall	16

- BCIS 1110 - Fundamentals of Information Literacy and Systems

Actual Credits - 3

- BLAW 2110 - Business Law I

Actual Credits - 3

- BUSA 1110 - Introduction to Business

Actual Credits - 3

- ENGL 1110G - Composition I

Actual Credits - 4

- OTEC 1102 - Keyboard Skillbuilding

Actual Credits - 3

Year	Semester	Actual Credits
Year 1	Spring	15

- ACCT 2115 - Survey of Accounting

Actual Credits - 3

- BCIS 1220 - Introduction to MS Word

Actual Credits - 3

- BCIS 2215 - MS EXCEL

Actual Credits - 3

- BUSA 1210 - Records Management

Actual Credits - 3

- ENGL 2210G - Professional & Technical Communication

Actual Credits - 3

COC BT - Building Trades

Overview

[object Object]

Program Contacts
[object Object]

Graduation Requirements

Graduation Requirements
Residency Requirement, Minimum GPA 2.00

Required Courses

Certificate of Completion

Free Form Requirements

TECHNICAL REQUIREMENTS		
CNST1110 General Carpentry or Building Trades I General Carpentry or Building Trades I		8
CNST1120 Construction Drawings Construction Drawings		4
CNST1170 Construction Methods I Construction Methods		3
CNST1270 Construction Methods II Construction Methods II		3
BCT200 Building Trades II Building Trades II		8
Electives		2
Total Hours		**28**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Building Trades - Certificate of Completion
Total Degree Map Credits
28

Year	Semester	Actual Credits
Year 1	Fall	15

- CNST 1110 - General Carpentry or Building Trades I

Actual Credits -
8

- CNST 1170 - Construction Methods I

Actual Credits -
3

- CNST 1120 - Construction Drawings

Actual Credits -
4

Year	Semester	Actual Credits
Year 1	Spring	13

- BCT 200 - Building Trades II

Actual Credits -
8

- CNST 1270 - Construction Methods II

Actual Credits -
3

- Electives - All

Actual Credits -
2

COC DGT GD - Drafting and Graphics Technology General Drafting

Overview

[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Demonstrate the competence in the use of general and specialized tools and equipment.

2. Establish a good Basis for exploring and growing in the field of Computer Aided Engineering.

3. Read and comprehend technical information and materials from printed and electronic sources relevant to Drafting and Graphic Technology.

4. Apply technical knowledge and skills to evaluate Detail Drawings which include Orthographic and Isometric views.

5. Create assembly drawings from solid models.

6. Apply materials, surface maps and lighting to render views of an object.

7. Apply all aspects of designing with solid and Parametric Modeling.

8. Establish a well-rounded knowledge of the architectural tools and techniques for use in school and industry.

9. Prepare accurate written technical documents, produce drawing documents that are technically sound.

Graduation Requirements

Graduation Requirements
Residency Requirement, Minimum GPA 2.00

Required Courses

Certificate

Free Form Requirements

TECHNICAL REQUIREMENTS		
DRFT112 Drafting Concepts/Computer Drafting Fundamentals I Drafting Concepts/Computer Drafting Fundamentals I		4
DRFT113 Drafting Concepts/Computer Drafting Fundamentals II Drafting Concepts/Computer Drafting Fundamentals II		4
DRFT114 Introduction to Solid Modeling Introduction to Solid Modeling		3
DRFT180 Residential Drafting Residential Drafting		3
DRFT181 Commercial Drafting Commercial Drafting		3
DRFT214 Advanced Solid Modeling Advanced Solid Modeling		3
DRFT255 Independent Study Independent Study		3
Drafting Elective		6
Total Hours		**29**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Drafting and Graphics Technology General Drafting
Total Degree Map Credits
29

Year	Semester	Actual Credits
Year 1	Fall	7

- DRFT 112 - Drafting Concepts/Computer Drafting Fundamentals I

Actual Credits - 4

- DRFT 114 - Introduction to Solid Modeling

Actual Credits - 3

Year	Semester	Actual Credits
Year 1	Spring	7

- DRFT 113 - Drafting Concepts/Computer Drafting Fundamentals II

Actual Credits - 4

- DRFT 180 - Residential Drafting

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Fall	6

- DRFT 181 - Commercial Drafting

Actual Credits - 3

- Course Set Not Found

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Spring	9

- DRFT 214 - Advanced Solid Modeling

Actual Credits - 3

- DRFT 255 - Independent Study

Actual Credits - 3

- Course Set Not Found

Actual Credits - 3

COC ECE - Early Childhood Education

Overview

Early Childhood Education - Certificate
[object Object]

Program Contacts
[object Object], [object Object]

Program Outcomes

1. Incorporate effective oral and written communication skills.

2. Demonstrate knowledge of social structure (diversity).

3. Apply theoretical foundation of child development case studies.

4. Evaluate various classroom models, management strategies, and dynamics.

5. Explore instruction and curriculum based on formative and summative assessments and needs of diverse learners.

6. Explain the historical aspects of early childhood education in the American educational system and how they have influenced contemporary methodologies and modern systems.

7. Assess ethics related to teaching and learning in early childhood education.

8. Identify career opportunities and requirements for obtaining New Mexico Teacher Certification.

Program Entrance

Essential Eligibility Requirements

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.

Graduation Requirements

Graduation Requirements

9-hour Residency Requirement. Students must maintain a cumulative 2.5 GPA to graduate with no less than a "C-" in all courses.

Required Courses

Certificate

Free Form Requirements

CORE CURRICULUM REQUIREMENTS		
ECED1110 Child Growth, Development, and Learning Child Growth, Development, and Learning		3
ECED1115 Health, Safety, and Nutrition Health, Safety, and Nutrition		2
ECED1120 Guiding Young Children Guiding Young Children		3
ECED1125 Assessment of Children and Evaluation of Programs Assessment of Children and Evaluation of Programs		3
ECED1130 Family and Community Collaboration Family and Community Collaboration		3
ECED2110 Professionalism Professionalism		2
ECED2115 Introduction into Language, Literacy, and Reading Introduction into Language, Literacy, and Reading		3
ECED2120 Curriculum Development through Play Birth through Age 4 (PreK) Curriculum Development through Play Birth through Age 4 (PreK)		3
ECED2121 Curriculum Development through Play Birth through Age 4 (PreK) Practicum Curriculum Development through Play Birth through Age 4 (PreK) Practicum		2
ECED2130 Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Curriculum Development and Implementation Age 3 (PreK) through Grade 3		3
ECED2131 Curriculum Dvlpmnt & Implementation Age 3 (PreK) through Grade 3 Practicum Curriculum Dvlpmnt & Implementation Age 3 (PreK) through Grade 3 Practicum		2
ENGL1110G Composition I Composition I		4
Total Hours		**33**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Early Childhood Education - Certificate
Total Degree Map Credits
33

Year	Semester	Actual Credits
Year 1	Fall	10

- ENGL 1110G - Composition I

Actual Credits -
4

- ECED 1110 - Child Growth, Development, and Learning

Actual Credits -
3

- ECED 1120 - Guiding Young Children

Actual Credits -
3

Year	Semester	Actual Credits
Year 1	Spring	8

- ECED 1115 - Health, Safety, and Nutrition

Actual Credits - 2

- ECED 1125 - Assessment of Children and Evaluation of Programs

Actual Credits - 3

- ECED 1130 - Family and Community Collaboration

Actual Credits - 3

Year	Semester	Actual Credits
Year 1	Summer	5

- ECED 2110 - Professionalism

Actual Credits - 2

- ECED 2115 - Introduction into Language, Literacy, and Reading

Actual Credits - 3

Year	Semester	Actual Credits
Year 2	Fall	5

- ECED 2120 - Curriculum Development through Play Birth through Age 4 (PreK)

Actual Credits - 3

- ECED 2121 - Curriculum Development through Play Birth through Age 4 (PreK) Practicum

Actual Credits - 2

Year	Semester	Actual Credits
Year 2	Spring	5

- ECED 2130 - Curriculum Development and Implementation Age 3 (PreK) through Grade 3

Actual Credits - 3

- ECED 2131 - Curriculum Dvlpmnt & Implementation Age 3 (PreK) through Grade 3 Practicum

Actual Credits - 2

COC EMTB - Emergency Medical Technician-Basic

Overview

Program Contacts
[object Object]

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

COC GIS - Geographical Information Systems

Overview

Geographical Information Systems - Certificate of Completion
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Analyze how geographic information systems facilitate conducting data analysis and communicating to address common geographic problems.

2. Perform database design using desktop GIS software.

3. Perform database creation using desktop GIS software3.

4. Perform database maintenance using desktop GIS software.

5. Perform data integration using desktop GIS software.

6. Use imagery and terrain data in typical geospatial applications.

Graduation Requirements

Graduation Requirements
Residency Requirement, Minimum GPA 2.00

Required Courses

Certificate of Completion

Free Form Requirements

TECHNICAL REQUIREMENTS		
DRFT109 Computer Drafting Fundamentals Computer Drafting Fundamentals		3
DRFT153 Survey Drafting Applications Survey Drafting Applications		3
DRFT204 Geographic Information Systems Technology Geographic Information Systems Technology		3
DRFT254 Spatial Data Processing Spatial Data Processing		3
DRFT274 GIS Theory and Analysis GIS Theory and Analysis		3
GEOG1110G Physical Geography Physical Geography (or Advisor Approved Elective DRFT, GEOG, or SUR)		4
Total Hours		19

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Geographical Information Systems - Certificate of Completion
Total Degree Map Credits
19

Year	Semester	Actual Credits
Year 1	Fall	10

- DRFT 109 - Computer Drafting Fundamentals

Actual Credits - 3

- DRFT 204 - Geographic Information Systems Technology

Actual Credits - 3

- GEOG 1110G - Physical Geography

Actual Credits - 4

Year	Semester	Actual Credits
Year 1	Spring	9

- DRFT 153 - Survey Drafting Applications

Actual Credits - 3

- DRFT 254 - Spatial Data Processing

Actual Credits - 3

- DRFT 274 - GIS Theory and Analysis

Actual Credits - 3

COC HI - Heritage Interpretation

Overview

Heritage of Interpretation - Certificate of Completion
[object Object]

Program Contacts
[object Object], [object Object]

Program Outcomes

1. Acquire Knowledge of Natural and Cultural Heritage: Student will gain a comprehensive understanding of natural, historical, and cultural heritage, including the significance of various sites, artifacts, and ecosystems.

2. Attain Interpretive Skills: Students will learn to create engaging and meaningful interpretive experiences for diverse audiences, using various media and techniques.

3. Explore Ethical and Inclusive Interpretation Practices: Students will examine ethical interpretation by incorporating diverse perspectives and fostering inclusivity in the heritage they interpret.

4. Examine Responsible Stewardship of Heritage Resources: Students will understand how to use interpretation as a tool for advocating and supporting the conservation and preservation of heritage sites.

Graduation Requirements

Graduation Requirements
Residency Requirement, Minimum GPA 2.00

Required Courses

Certificate of Completion

Free Form Requirements

CORE CURRICULUM REQUIREMENTS		
ANTH1115G Introduction to Anthropology Introduction to Anthology		3
ANTH1136 Introduction to Historic Preservation Introduction to Historic Preservation		3
or ANTH2140G Indigenous Peoples of North America Indigenous Peoples of North America		
COMM1130G Public Speaking Public Speaking		3
or COMM1115G Introduction to Communication Communication		
ENGL1110G Composition I Composition I		4
ENVS1110G Environmental Science I (L) Environmental Science I (L)		4
HIST Courses		6
Choose two courses from the following:		
HIST1110G United States History I United States History I		
HIST1120G United States History II United States History II		
HIST1150G Western Civilization I Western Civilization I		
HIST1160G Western Civilization II Western Civilization II		
HIST2110 Survey of New Mexico History Survey of New Mexico History		3
MATH1215 Intermediate Algebra Intermediate Algebra		3
or MATH1220G College Algebra College Algebra		
Electives		**4**
Choose from the following:		
HIST2996 Topics in History Topics in History		
SOCI1110G Introduction to Sociology Introduction to Sociology		
SOCI2261 Issues in Death and Dying Issues in Death and Dying		
SOCI2310G Contemporary Social Problems Contemporary Social Problems		
Total Hours		**33**

Curriculum Notes

1. Elective course(s) should be from either the ANTH, POLS, HIST, MATH or SPAN prefix

2. See the General Education section of the catalog for a full list of courses.

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Heritage Interpretation - Certificate of Completion
Total Degree Map Credits
29

Year	Semester	Actual Credits
Year 1	Fall	16

- ANTH 1115G - Introduction to Anthropology

Actual Credits - 3

- ENVS 1110G - Environmental Science I (L)

Actual Credits - 4

- HIST 1110G - United States History I
  OR
- HIST 1120G - United States History II
  OR
- HIST 1150G - Western Civilization I
  OR
- HIST 1160G - Western Civilization II

Actual Credits HIST Course 3

- HIST 2110 - Survey of New Mexico History

Actual Credits - 3

- MATH 1215 - Intermediate Algebra
  OR
- MATH 1220G - College Algebra

Actual Credits - 3

Year	Semester	Actual Credits
Year 1	Spring	13

- ANTH 1136 - Introduction to Historic Preservation
  OR
- ANTH 2140G - Indigenous Peoples of North America

Actual Credits - 3

- ENGL 1110G - Composition I

Actual Credits - 4

- COMM 1130G - Public Speaking
  OR
- COMM 1115G - Introduction to Communication

Actual Credits - 3

- HIST 1150G - Western Civilization I
  OR
- HIST 1160G - Western Civilization II
  OR
- HIST 1110G - United States History I
  OR
- HIST 1120G - United States History II

	HIST Course
Actual Credits	3

- Course Set Not Found

	-
Actual Credits	-

COC HIT - Health Information Technology

Overview

Health Information Technology - Certificate of Completion
[object Object]

Program Contacts
[object Object], [object Object]

Program Outcomes

1. Identify basic anatomy, physiology, disease processes, and interventions adequately to manage health data.

2. Collect, maintain, and analyze health data in accordance with privacy laws, organizational policy, and licensure/ accreditation requirements.

3. Code and submit health data accurately for insurance reimbursement and prior authorizations.

4. Use and troubleshoot all functions of Electronic Medical Records (EMR).

5. Maintain data security in accordance with all laws and regulations.

6. Use technology for data collection, storage, reporting, and analysis.

7. Use principles of ongoing quality improvement for health information systems.

8. Incorporate legal and ethical principles into health information systems.

9. Utilize basic management theories effectively and ethically.

10. Implement principles of social inclusion and equity in a work environment.

Graduation Requirements

Graduation Requirements
Residency Requirement, Minimum GPA 2.00

Required Courses

Certificate of Completion

Free Form Requirements

TECHNICAL REQUIREMENTS		
AHS140 Essentials of Anatomy and Physiology Essentials of Anatomy and Physiology		
AHS202 Legal and Ethical Issues in Health Care Legal and Ethical Issues in Health Care		
BCIS1110 Fundamentals of Information Literacy and Systems Fundamentals of Information Literacy and Systems		
ENGL1110G Composition I Composition I		
HIT150 Introduction to Medical Terminology/NURS150 Medical Terminology/OATS150 Medical Terminology Introduction to Medical Terminology		
HIT221 Internship I Internship I		
HIT228 Medical Insurance Billing/OATS228 Medical Insurance Billing Medical Insurance Billing		
HIT240 Health Information Quality Management Health Information Quality Management		
HIT248 Medical Coding I Medical Coding I		
HIT258 Medical Coding II Medical Coding II		
Total Hours		**32**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Health Information Technology - Certificate of Completion
Total Degree Map Credits
32

Year	Semester	Actual Credits
-	Summer	10

- HIT 150 - Introduction to Medical Terminology
- **AND** HIT 228 - Medical Insurance Billing
- **AND** ENGL 1110G - Composition I

	-
Actual Credits	10

Year	Semester	Actual Credits
-	Fall	13

- AHS 140 - Essentials of Anatomy and Physiology
- **AND** HIT 240 - Health Information Quality Management
- **AND** HIT 248 - Medical Coding I
- **AND** BCIS 1110 - Fundamentals of Information Literacy and Systems

	-
Actual Credits	13

Year	Semester	Actual Credits
-	Spring	9

- AHS 202 - Legal and Ethical Issues in Health Care
- **AND** HIT 221 - Internship I
- **AND** HIT 258 - Medical Coding II

	-
Actual Credits	9

COC ICT - Instrumentation and Control Technology

Overview

Instrumentation and Control Technology - Certificate of Completion
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Demonstrate knowledge and the practice of safety regulations in labs.

2. Demonstrate the basic knowledge and skills of industrial measurement tools.

3. Tune and troubleshoot industrial processes.

4. Analyze and interpret experimental data.

5. Identify various sensor technologies in the measuring device.

6. Identify the components of a Control process and their functions.

Graduation Requirements

Graduation Requirements
Residency Requirement, Minimum GPA 2.00

Required Courses

Certificate of Completion

Free Form Requirements

TECHNICAL REQUIREMENTS		
ELTR1110 Basic Electricity and Controls Basic Electricity and Controls		4
ENGL1110G Composition I Composition I		4
INST133 Process Technology and Systems Process Technology and Systems		4
INST165 Equipment Processes Equipment Processes		4
INST205 Programmable Logic Controllers and Applications Programmable Logic Controllers and Applications		4
INST251 Instrumentation and Measurement Instrumentation and Measurement		5
OETS100 Industrial/Construction Safety Industrial/Construction Safety		2
OETS118 Mathematics for Technicians Mathematics for Technicians		3
Total Hours		**30**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Instrumentation and Control Technology - Certificate of Completion
Total Degree Map Credits
30

Year	Semester	Actual Credits
Year 1	Fall	14

- INST 133 - Process Technology and Systems

	-
Actual Credits	4

- INST 251 - Instrumentation and Measurement

	-
Actual Credits	5

- OETS 100 - Industrial/Construction Safety

	-
Actual Credits	2

- OETS 118 - Mathematics for Technicians

	-
Actual Credits	3

Year	Semester	Actual Credits
Year 1	Spring	16

- ENGL 1110G - Composition I

	-
Actual Credits	4

- INST 165 - Equipment Processes

	-
Actual Credits	4

- INST 205 - Programmable Logic Controllers and Applications

	-
Actual Credits	4

- ELTR 1110 - Basic Electricity and Controls

	-
Actual Credits	4

COC IMT E - Industrial Maintenance Technology Electrical

Overview

Industrial Maintenance Technology Electrical - Certificate
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Ability to follow the industrial safety work in the lab.

2. Wire industrial electrical circuits.

3. Analyze DC and AC electrical circuits and generator operations.

4. Demonstrate understanding of process control systems.

5. Demonstrate industrial measurement and calibration skills.

6. Tune, analyze, and troubleshoot industrial processes.

Graduation Requirements

Graduation Requirements
Residency Requirement, Minimum GPA 2.00

Required Courses

Certificate

Free Form Requirements

TECHNICAL REQUIREMENTS		
ENGL1110G Composition I Composition I		4
INMT133 Process Technology and Systems Process Technology and Systems		4
INMT134 Maintenance Principles Maintenance Principles		4
INMT205 Programmable Logic Controllers and Applications Programmable Logic Controllers and Applications		4
MAT130 Applied Industrial Electricity I Applied Industrial Electricity I		4
OETS100 Industrial/Construction Safety Industrial/Construction Safety		2
OETS118 Mathematics for Technicians Mathematics for Technicians		3
OEET120 Basic Motor Controls Basic Motor Controls		5
Total Hours		**30**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Industrial Maintenance Technology Electrical - Certificate
Total Degree Map Credits
30

Year	Semester	Actual Credits
Year 1	Fall	13

- INMT 133 - Process Technology and Systems
- **AND** OETS 100 - Industrial/Construction Safety
- **AND** OETS 118 - Mathematics for Technicians
- **AND** MAT 130 - Applied Industrial Electricity I

-

Actual Credits 13

Year	Semester	Actual Credits
Year 1	Spring	17

- OEET 120 - Basic Motor Controls
- **AND** INMT 134 - Maintenance Principles
- **AND** ENGL 1110G - Composition I
- **AND** INMT 205 - Programmable Logic Controllers and Applications

-

Actual Credits 17

COC IMT M - Industrial Maintenance Technology Mechanical

Overview

Industrial Maintenance Technology Mechanical - Certificate
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Demonstrate safe work procedures in the mechanical maintenance field.

2. Identify concepts and principles on industrial equipment.

3. Identify components and apply theoretical knowledge in labs.

4. Ability to set up, maintain, and repair industrial equipment.

5. Demonstrate the use of tools and test equipment.

6. Demonstrate the communication of concepts, techniques, and ideas.

Graduation Requirements

Graduation Requirements
Residency Requirement, Minimum GPA 2.00

Required Courses

Certificate

Free Form Requirements

TECHNICAL REQUIREMENTS		
ENGL1110G Composition I Composition I		4
INMT133 Process Technology and Systems Process Technology and Systems		4
INMT134 Maintenance Principles Maintenance Principles		4
INMT235 Mechanical Drives I Mechanical Drives I		4
INMT237 Hydraulics I Hydraulics I		2
INMT263 Mechanical Drives II Mechanical Drives II		4
OETS100 Industrial/Construction Safety Industrial/Construction Safety		2
OETS118 Mathematics for Technicians Mathematics for Technicians		3
WELD1110 Introduction to Welding Fundamentals Introduction to Welding Fundamentals (WELD 105)		3
Total Hours		**30**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Industrial Maintenance Technology Mechanical - Certificate
Total Degree Map Credits
30

Year	Semester	Actual Credits
Year 1	Fall	15

- INMT 133 - Process Technology and Systems
- **AND** OETS 100 - Industrial/Construction Safety
- **AND** OETS 118 - Mathematics for Technicians
- **AND** INMT 235 - Mechanical Drives I
- **AND** INMT 237 - Hydraulics I

-

Actual Credits 15

Year	Semester	Actual Credits
Year 1	Spring	15

- INMT 134 - Maintenance Principles
- **AND** ENGL 1110G - Composition I
- **AND** INMT 263 - Mechanical Drives II
- **AND** WELD 1110 - Introduction to Welding Fundamentals

-

Actual Credits 15

COC MEDCOD - Medical Coding and Billing

Overview

Medical Coding and Billing - Certificate of Completion
[object Object]

Program Contacts
[object Object]

Graduation Requirements

Graduation Requirements
Residency Requirement, Minimum GPA 2.00

Required Courses

Certificate of Completion

Free Form Requirements

TECHNICAL REQUIREMENTS		
AHS140 Essentials of Anatomy and Physiology Essentials of Anatomy and Physiology		4
AHS202 Legal and Ethical Issues in Health Care Legal and Ethical Issues in Health Care		3
HIT150 Introduction to Medical Terminology/NURS150 Medical Terminology/OATS150 Medical Terminology Introduction to Medical Terminology		3
HIT221 Internship I Internship I		3
HIT228 Medical Insurance Billing/OATS228 Medical Insurance Billing Medical Insurance Billing		3
HIT240 Health Information Quality Management Health Information Quality Management		3
HIT248 Medical Coding I Medical Coding I		3
HIT258 Medical Coding II Medical Coding II		3
Total Hours		**25**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Medical Coding and Billing - Certificate of Completion
Total Degree Map Credits
25

Year	Semester	Actual Credits
Year 1	Fall	13

- AHS 140 - Essentials of Anatomy and Physiology

Actual Credits -
4

- HIT 150 - Introduction to Medical Terminology
  OR
- OATS 150 - Medical Terminology
  OR
- NURS 150 - Medical Terminology

Actual Credits -
3

- HIT 240 - Health Information Quality Management

Actual Credits -
3

- HIT 248 - Medical Coding I

Actual Credits -
3

Year	Semester	Actual Credits
Year 1	Spring	12

- AHS 202 - Legal and Ethical Issues in Health Care

Actual Credits -
3

- HIT 221 - Internship I

Actual Credits -
3

- HIT 228 - Medical Insurance Billing
  OR
- OATS 228 - Medical Insurance Billing

Actual Credits -
3

- HIT 258 - Medical Coding II

Actual Credits -
3

COC NGCT - Natural Gas Compression Technology

Overview

Natural Gas Compression Technology - Certificate of Completion
[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Demonstrate knowledge of general industry safety guidelines in Natural Gas Compression.

2. Demonstrate concepts, principles, and processes of system and maintenance operations.

3. Identify specific components of natural gas engines and their functions.

4. Demonstrate using and maintenance the natural gas equipment.

5. Demonstrate the use of tools, rigging, crane and test equipment and the proper application.

6. Demonstrate professional communication of concepts, techniques, and ideas to peers and faculty.

Graduation Requirements

Graduation Requirements

Residency Requirement, Minimum GPA 2.00

Required Courses

Certificate of Completion

Free Form Requirements

CORE CURRICULUM REQUIREMENTS	
ELTR1110 Basic Electricity and Controls Basic Electricity and Controls	4
ENGL1110G Composition I Composition I (C- or higher)	4
INMT165 Equipment Processes Equipment Processes	4
INMT205 Programmable Logic Controllers and Applications Programmable Logic Controllers and Applications	4
NGEC133 Natural Gas Engine Repair Technology Natural Gas Engine Repair Technology	5
NGEC175 Natural Gas Compressions Technology I Natural Gas Compressions Technology I	4
OETS100 Industrial/Construction Safety Industrial/Construction Safety	2
OETS118 Mathematics for Technicians Mathematics for Technicians	3
Total Hours	**30**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name

Natural Gas Compression Technology - Certificate of Completion

Total Degree Map Credits

30

Year	Semester	Actual Credits
Year 1	Fall	13

- OETS 100 - Industrial/Construction Safety

Actual Credits -
2

- OETS 118 - Mathematics for Technicians

Actual Credits -
3

- NGEC 175 - Natural Gas Compressions Technology I

Actual Credits -
4

- ENGL 1110G - Composition I

Actual Credits Area I
4

Year	Semester	Actual Credits
Year 1	Spring	17

- INMT 165 - Equipment Processes

Actual Credits -
4

- NGEC 133 - Natural Gas Engine Repair Technology

Actual Credits	5

- INMT 205 - Programmable Logic Controllers and Applications

Actual Credits	4

- ELTR 1110 - Basic Electricity and Controls

Actual Credits	4

COCLPN25 - Licensed Practical Nursing

Overview

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.

[object Object]

Program Contacts
[object Object]

Program Outcomes

1. Under the direction of the Registered Nurse, function as a member of the interdisciplinary team to provide safe, quality care to diverse clients.

2. Collaborate effectively through verbal, nonverbal and technological means with individuals, families and the interdisciplinary team.

3. Adhere to standards of practice within legal, ethical, and regulatory frameworks for the licensed practical nurse.

4. Demonstrate behavior that reflects the values and ethics of the licensed practical nurse.

Program Entrance

Program Entrance Requirements
BIOL2210C Human Anatomy and Physiology I Lecture & Laboratory Human Anatomy and Physiology I Lecture & Laboratory, CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors) Introduction to Chemistry Lecture and Laboratory (non-majors), NA101 Nursing Assistant Theory and Lab Nursing Assistant Theory and Lab, and NURS150 Medical Terminology Medical Terminology must be completed prior to entering the nursing program.

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 the last Monday in May. Packets are available in the Nursing Administration Office in the Allied Health Building and online at senmc.edu

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.

Graduation Requirements

Graduation Requirements
15 credit hour Residency Requirement, Minimum GPA 2.75

Required Courses

Certificate of Completion

Free Form Requirements
The certificates require a cumulative GPA of 2.75 or higher. A minimum of 15 credits earned toward the certificate must be completed at SENMC.

CORE CURRICULUM REQUIREMENTS		
BIOL2210C Human Anatomy and Physiology I Lecture & Laboratory Human Anatomy and Physiology I Lecture & Laboratory		4
BIOL2225C Human Anatomy and Physiology II Lecture and Laboratory Human Anatomy and Physiology II Lecture and Laboratory		4
CEPY1120G Human Growth and Behavior Human Growth and Behavior		3
CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors) Introduction to Chemistry Lecture and Laboratory (non majors)		4
ENGL1110G Composition I Composition I		4
MATH1215 Intermediate Algebra Intermediate Algebra		3
NA101 Nursing Assistant Theory and Lab Nursing Assistant Theory and Lab		6
NURSING PROGRAM REQUIREMENTS		
NURS146 Common Health Deviations Common Health Deviations		6
NURS150 Medical Terminology Medical Terminology		3
NURS153 Medication and Dosage Calculation Medication and Dosage Calculation		1
NURS154 Physical Assessment Physical Assessment		2
NURS156 Basic Nursing Theory and Practice Basic Nursing Theory and Practice		6
NURS157 Maternal/Child Health Deviations Maternal/Child Health Deviations		8
NURS210 Pharmacological Requisites of the Childbearing Family Pharmacological Requisites of the Childbearing Family		1
Total Hours		**55**

Degree Pathways

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

Degree Map Name
Licensed Practical Nursing - Certificate of Completion
Total Degree Map Credits
55

Year	Semester	Actual Credits
-	Fall	16

- BIOL 2210C - Human Anatomy and Physiology I Lecture & Laboratory
- **AND** MATH 1215 - Intermediate Algebra
- **AND** NA 101 - Nursing Assistant Theory and Lab
- **AND** NURS 150 - Medical Terminology

Actual Credits - 16

Year	Semester	Actual Credits
Year 1	Fall	17

- BIOL 2225C - Human Anatomy and Physiology II Lecture and Laboratory
- **AND** CHEM 1120G - Introduction to Chemistry Lecture and Laboratory (non majors)
- **AND** NURS 153 - Medication and Dosage Calculation
- **AND** NURS 154 - Physical Assessment
- **AND** NURS 156 - Basic Nursing Theory and Practice

Actual Credits - 17

Year	Semester	Actual Credits
Year 1	Spring	16

- CEPY 1120G - Human Growth and Behavior
- **AND** ENGL 1110G - Composition I
- **AND** NURS 157 - Maternal/Child Health Deviations
- **AND** NURS 210 - Pharmacological Requisites of the Childbearing Family

Actual Credits - 16

Year	Semester	Actual Credits
Year 1	Summer	6

- NURS 146 - Common Health Deviations

Actual Credits - 6

All Courses

1234 - Test Coursedog integration - CIP Code Persists? Yes, it does!

General

Subject code
123

Course Number
1234

Course Title
Test Coursedog integration - CIP Code Persists? Yes, it does!

Description
Test Description

ACCT 1125 - Supplemental Instruction to Financial Accounting

General

Subject code
ACCT

Course Number
1125

Course Title
Supplemental Instruction to Financial Accounting

Description
Collaborative workshop for students to provide additional problem solving necessary for students to master Financial Accounting. Repeatable: up to 2 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): ACCT2110 Principles of Accounting I (Financial)

Common Course Numbering Crosswalk

Past Course Numbers
ACCT 101

ACCT 1150 - QuickBooks

General

Subject code
ACCT

Course Number
1150

Course Title
QuickBooks

Description
An introductory course to QuickBooks Pro accounting software, including setting up a new company and chart of accounts; recording transactions for service and merchandising businesses with customers, vendors and employees; bank reconciliations; payroll; end-of-period procedures; financial reporting; managing lists; and running reports and forms and customizing them.

General Education Course
Academic

Learning Outcomes

Name
1. Understand differences and similarities between a manual accounting system and QuickBooks Online

Name
2. Identify and execute the four levels of operation within QuickBooks: New Company Setup, Lists, Activities, and Reports

Name
3. Record sales/collections, purchase/payments, inventory, adjusting entries

Name
4. Set up payroll, record payroll transactions, print paychecks, and view various payroll related reports

Name
5. Produce a variety of reports and financial statements

Name
6. Analyze reports to identify and correct errors

Common Course Numbering Crosswalk

Past Course Numbers
BOT 205/OATS 205

ACCT 1210 - Income Taxation

General

Subject code
ACCT

Course Number
1210

Course Title
Income Taxation

Description
Federal income taxation of individuals, sole proprietorships, partnerships, corporations, trusts, and estates with particular reference to CLU, life insurance and annuities.

General Education Course
Academic

Learning Outcomes

Name
1. Demonstrate their familiarity with the Federal Individual Income Tax System.

Name
2. Demonstrate their familiarity with the Federal Income Tax System for sole proprietorships, partnerships, corporations, trusts, and estates.

Name
3. Explain and demonstrate gross income, deductions and loses and how they relate to Federal Individual Income tax returns.

Name
4. Demonstrate their ability to calculate basic gains and losses on property transactions.

Prerequisites/Corequisites

Common Course Numbering Crosswalk

Past Course Numbers
BMGT 150

ACCT 1410 - Personal Tax Preparation

General

Subject code	Course Number	Course Title
ACCT	1410	Personal Tax Preparation

Description
Introduces basic federal and state tax codes for preparing individual income tax returns. Emphasis on use of tax software. Students will be required to pass a certification exam and assist in preparing individual tax returns for low income and elderly taxpayers.

General Education Course
Academic

Learning Outcomes

Name
1. Explain basic personal income tax filing status requirements

Name
2. Use appropriate tax software to prepare simple income tax returns for individuals.

Name
3. Answer basic tax questions.

Name
4. Demonstrate personal and professional interview skills in an environment that demands confidentiality issues at all levels.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 244/OATS 244

ACCT 2110 - Principles of Accounting I (Financial)

General

Subject code	Course Number	Course Title
ACCT	2110	Principles of Accounting I (Financial)

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Analyze business transactions, their effects on the financial statements and the interrelationships of the financial statements involving the following: a. Cash transactions b. Receivables and Net Realizable Value c. Operational Assets and Depreciation d. Inventory e. Current Liabilities f. Long-term Liabilities

Name
2. Define, identify and demonstrate the impact of adjusting entries on financial statements.

Name
3. Explain and demonstrate the differences between cash and accrual basis accounting.

Name
4. Define and identify generally accepted accounting principles.

Common Course Numbering Crosswalk

Past Course Numbers
ACCT 221

ACCT 2110X - Principles of Accounting IA (Financial)

General

Subject code	Course Number	Course Title
ACCT	2110X	Principles of Accounting IA (Financial)

Description
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. Principles of Accounting 1A plus 1B are equivalent to Principles of Accounting I on the Matrix (1/2).

General Education Course
Academic

Learning Outcomes

Name
1. Analyze business transactions, their effects on the financial statements and the interrelationships of the financial statements involving the following: a. Cash transactions b. Receivables c. Payables

Name
2. Define, identify and demonstrate the impact of adjusting entries on financial statements.

Name
3. Explain and demonstrate the differences between cash and accrual basis accounting.

Name
4. Explain, define and apply generally accepted accounting principles.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 120/OATS 120

ACCT 2110Y - Principles of Accounting IB (Financial)

General

Subject code	Course Number	Course Title
ACCT	2110Y	Principles of Accounting IB (Financial)

Description
A continuation of Principles of Accounting IA emphasizing accounting principles and procedures for receivables, inventory, notes and interest, depreciation, equity transactions, cash flow and financial statement analysis. Principles of Accounting 1A plus 1B are equivalent to Principles of Accounting I on the Matrix.

General Education Course
Academic

Learning Outcomes

Name
1. Analyze business transactions, their effects on the financial statements and the interrelationships of the financial statements involving the following: a. Receivables and Net Realizable Value b. Operational Assets and Depreciation c. Inventory d. Current Liabilities d. Long-term Liabilities

Name
2.Define and identify generally accepted accounting principles.

Name
3. Analyze equity ownership transactions and their effect on the financial statements.

Name
4. Identify the cash flow statement activities and explain the purpose of the cash flow statement.

Name
5. Perform ratio analysis to evaluate financial statements.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 121/OATS 121

ACCT 2115 - Survey of Accounting

General

Subject code	Course Number	Course Title
ACCT	2115	Survey of Accounting

Description
Designed to provide a basic understanding of accounting procedures for small businesses. Provides a foundation of the accounting cycle for a small business enterprise and a practical understanding of business financial statements.

General Education Course
Academic

Learning Outcomes

Name
1. Explain basic accounting concepts and terminology.

Name
2. Perform the basic steps in the accounting cycle for a small business.

Name
3. Prepare bank reconciliations.

Name
4. Prepare payroll journals and calculate withholding deductions

Common Course Numbering Crosswalk

Past Course Numbers
ACCT 200

ACCT 2120 - Principles of Accounting II (Managerial)

General

Subject code	Course Number	Course Title
ACCT	2120	Principles of Accounting II (Managerial)

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Identify the differences between financial and managerial accounting.

Name
2. Illustrate the accumulation of costs in cost accounting systems.

Name
3. Describe the basic elements of the budgeting process, its objectives and budget preparation.

Name
4. Define and classify cost behavior.

Name
5. Perform cost-volume-profit analysis for decision making.

Name
6. Perform differential (incremental) analysis for business decision making.

Name
7. Explain the cause of the variance and its effect on the income statement.

Name
8. Explain and demonstrate the difference between traditional costing and activity-based costing.

Name
9. Analyze equity ownership transactions and their effect on the financial statements.

Name
10. Identify the cash flow statement activities and explain the purpose of the cash flow statement.

Name
11. Perform ratio analysis to evaluate financial statements.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ACCT2110 Principles of Accounting I (Financial)

Common Course Numbering Crosswalk

Past Course Numbers
ACCT 222

ACCT 2170 - Payroll Accounting

General

Subject code	Course Number	Course Title
ACCT	2170	Payroll Accounting

Description
Covers payroll accounting procedures and controls, tax and employment laws, and tax reports that form the core of payroll responsibilities.

General Education Course
Academic

Learning Outcomes

Name
1.Identify payroll terminology and concepts, required payroll records, and various laws and regulations affecting payroll operations.

Name
2.Calculate gross wages and deductions.

Name
3.Record, journalize and post payroll transactions in accordance with GAAP using the appropriate accounting records (e.g. payroll registers, employee earnings records, journals, and ledgers.)

Name
4.Prepare and accurately complete payroll tax reports for timely filing.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 140/OATS 140

ACCT 2210 - Spreadsheet Accounting

General

Subject code	Course Number	Course Title
ACCT	2210	Spreadsheet Accounting

Description
This course is a hands-on spreadsheet accounting course designed to help students apply previous knowledge and processes of financial and managerial accounting to a computerized environment using popular spreadsheet software. It will include microcomputer accounting applications, integrating spreadsheets, word processing, graphics, and database.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 206/OATS 206

ACCT 2320 - Introduction to Tax I (Individual)

General

Subject code	Course Number	Course Title
ACCT	2320	Introduction to Tax I (Individual)

Description
Studies the current federal tax laws, providing a working knowledge of preparing taxes for individuals and sole proprietorships. Federal tax law topics include gross income, exclusions, deductions, credits, accounting periods and methods, and property transactions.

General Education Course
Academic

Learning Outcomes

Name
1.Explain the objectives of the Federal Income Tax System and relate them to individuals working in the U.S. economy.

Name
2.Distinguish between taxable income versus tax exempt income and allowable deductions versus non-allowable deductions.

Name
3.Identify tax planning strategies for maximizing deductions and minimizing the disallowance of deductions.

Name
4.Recognize and determine deductions and losses for individuals businesses.

Name
5.Apply the components of the Federal income tax formula to determine individual tax liability.

Name
6.Identify tax problems that can be solved by further research, or that require expert tax counsel.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 240/OATS 240

ACCT 2520 - Introduction to Auditing

General

Subject code	Course Number	Course Title
ACCT	2520	Introduction to Auditing

Description
Surveys auditing concepts and processes used by management and assurance professionals that include audit standards, reports, professional ethics, legal liability, evidence accumulation, audit planning, internal controls, transaction cycles, other engagements and operational auditing.

General Education Course
Academic

Learning Outcomes

Name
1.Describe the attest function.

Name
2.Identify the professional and regulatory standards that impact the auditing profession.

Name
3.Use audit planning techniques to assess risks, calculate materiality and prepare audit programs.

Name
4.Evaluate factual situations to identify internal control deficiencies, significant deficiencies, and material weaknesses.

Name
5.Identify types of evidence and practice documenting the results of performing audit tests.

Name
6.Use various audit sampling to determine whether sufficient evidence has been obtained.

Name
7.Identify audit procedures performed in the completion of an audit.

Name
8.Select the appropriate audit report for various factual situations.

Name
9.Demonstrate knowledge of other attestation and assurance services performed by CPAs as well as other types of services, which independent auditors may or may not perform.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 241/OATS 241

ACCT 2999 - Capstone in Accounting

General

Subject code
ACCT

Course Number
2999

Course Title
Capstone in Accounting

Description
Focuses on assessment of Student Learning Outcomes for the program of study.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 260/OATS 260

ACOM 1110 - Introduction to Agricultural Communication

General

Subject code
ACOM

Course Number
1110

Course Title
Introduction to Agricultural Communication

Description
Students will learn about the history and theories of agricultural communications, be introduced to the degree program, explore careers in the field, and examine the role of media in agricultural communications.

General Education Course
Academic

Learning Outcomes

Name
1.Identify classes needed in the degree program and relevant clubs.

Name
2.Recall important times in history of agricultural communication and journalism.

Name
3.Comprehend the communication process and identify its components.

Name
4.Identify effective and efficient media for agricultural communication.

Name
5.Analyze the various roles and uses of media in agriculture communication.

Name
6.Apply theories of communication and journalism to class assignments.

Common Course Numbering Crosswalk

Past Course Numbers
AXED 1120/AXED 240

ACOM 1120 - Introduction to Graphic Design in Agricultural

General

Subject code
ACOM

Course Number
1120

Course Title
Introduction to Graphic Design in Agricultural

Description
This course focuses on introducing students to creating and critiquing visual communication materials in agricultural communications by developing understanding of visual communications, graphic design, and branding principles.

General Education Course
Academic

Learning Outcomes

Name
1.Understand and demonstrate the correct use of formats, modes, and resolutions when creating or using graphics for various mediums and audiences.

Name
2.Critique and evaluate graphic and photographic design elements in agricultural communications pieces.

Name
3.Demonstrate a working knowledge of software and their uses for implementing principles of graphic design and branding.

ACOM 1130G - Effective Leadership and Communication in Agriculture

General

Subject code	Course Number	Course Title
ACOM	1130G	Effective Leadership and Communication in Agriculture

Description
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. (2+2P)
Repeatable: up to 3 credits.

General Education Course
Area I, Academic

Learning Outcomes

Name
1.Understanding Leadership; Definitions of Leadership; Agricultural Education, FFA , Leadership; Leadership Categories; Democratic, Authorization, and Situational Leadership; Personality and Leadership Relations; Developing Leaders; Personal Leadership Development; Ability, Experience, and the Opportunity to Lead; Leadership in the Workplace; Human Relations, Technical, and Conceptual Skills

Name
2.Communication Skills; Communication and Leadership; The Purpose of Communication; Forms of Communication; Communication Barriers and Styles; Verbal and Nonverbal Communication; Feedback; Self-Communication and Interpersonal Communication.

Name
3.Leading Individuals and Groups; Group Dynamics and Team Building; Democratic Group Leadership; Importance of Groups; Types of Groups; Organizing Groups; Group Dynamics, Development, and Discussion

Name
4.Conducting Successful Meetings; Skills Developed by Bring an Officer; Basic Meeting Functions; Characteristics of a Good Meetings; Planning and Preparing for Meetings; The Meeting Room; Committees; Informative and Motivational Meetings; Group Member Involvement; Officer and Member Responsibilities; Developing a Program of Activities.

Common Course Numbering Crosswalk

Past Course Numbers
AXED 2120G/AXED 201G

ACOM 2120 - Photography in Agriculture

General

Subject code	Course Number	Course Title
ACOM	2120	Photography in Agriculture

Description
This is a field-based course focused on how to students use the camera as a tool to make the rules of photography and design work for the student's style, creativity, and goals pertaining to application of photography in agricultural communications. Students develop and disseminate a photography portfolio through a variety of communications channels. (P2P)

General Education Course
Academic

Learning Outcomes

Name
1.Utilize a DSLR or mirrorless camera to analyze scenarios to effectively curate a body of work that compliments agricultural communications practice

Name
2.Demonstrate working knowledge of camera equipment and photography principles to create visual stories.

Name
3.Evaluate and critique imagery for use of photography skills and principles.

ACOM 2998 - Field Experience in Agricultural Communications

General

Subject code	Course Number	Course Title
ACOM	2998	Field Experience in Agricultural Communications

Description
This course is designed to help you understand people and how to communicate with people. The key to all journalism or communications-related courses is to understand the audience well enough to know how to speak like them, to them, and to your stakeholders. The most successful communicators exhibit greatness in themselves and in their peers. Communicators cannot do their job if they do not show up with their best attitude and work ethic. Don't let your audience down, and we will make sure you are equipped to do so. Repeatable: up to 6 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Explain the role of communications in the agricultural or science industries.

Name
2. Develop a communication campaign for an agriculturally related client.

Name
3. Identify key principles of communication channels including newswriting, radio production, and communication plans.

Name
4. Create effective internship application materials to meet needs in the industry.

Name
5. Design a job portfolio that includes examples of communications experience.

AE ESL 0001 - AE - Basic ESL

General

Subject code	Course Number	Course Title
AEESL	0001	AE - Basic ESL

AE ESL 0005 - AE Beginning ESL (F2F & Online)

General

Subject code	Course Number	Course Title
AEESL	0005	AE Beginning ESL (F2F & Online)

AE ESL 0010 - AE Intermediate I ESL (F2F & Online)

General

Subject code	Course Number	Course Title
AEESL	0010	AE Intermediate I ESL (F2F & Online)

AE L1L2 ESL - AE Intermediate I/II ESL (F2F & Online)

General

Subject code	Course Number	Course Title
AEL	1L2 ESL	AE Intermediate I/II ESL (F2F & Online)

AE L2 ESL - AE Intermediate II ESL (F2F & Online)

General

Subject code	Course Number	Course Title
AEL	2 ESL	AE Intermediate II ESL (F2F & Online)

AE LANG - AE Language (F2F & Online)

General

Subject code	Course Number	Course Title
AELANG	LANG	AE Language (F2F & Online)

AEEC 1110 - Introduction to Agricultural Economics and Business

General

Subject code	Course Number	Course Title
AEEC	1110	Introduction to Agricultural Economics and Business

Description
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 micro- and macro-economic principles as they relate to agricultural economics and business.
Repeatable: up to 3 credits.

Learning Outcomes

Name
1.Gain a broad understanding of the role of the consumer in the market-place for agricultural commodities, producers, agencies and the global market structure.

Name
2.Apply introductory economic principles to applied global situations.

Name
3.Employ economic concepts in the application of production level decision making.

Name
4.Employ economic principles to the basic and global agricultural community.

Name
5.Understand relationships that exist between producers and consumers.

Common Course Numbering Crosswalk

Past Course Numbers
AG E 100

AEEC 1120 - Careers in Food and Agribusiness

General

Subject code	Course Number	Course Title
AEEC	1120	Careers in Food and Agribusiness

Description
This course provides an orientation to careers in agricultural economics and agricultural business. Students will learn about the agricultural supply chain in New Mexico, the United States, and the world.
Repeatable: up to 1 credit.

Learning Outcomes

Name
1.Become more familiar with career opportunities in agricultural economics and agricultural business.

Name
2.Understand skills and characteristics desired by potential employers of Agricultural Economics and Agricultural Business students.

Name
3.Develop greater appreciation of current policy and management issues in agriculture.

Name
4.Become more familiar with faculty and staff in the Department of Agricultural Economics and Agricultural Economics and resources available to students within the Department.

Name
5.Refine written and verbal communication skills.

Common Course Numbering Crosswalk

Past Course Numbers
AG E 101

AEEC 2110 - Principles of Food and Agribusiness Management

General

Subject code	Course Number	Course Title
AEEC	2110	Principles of Food and Agribusiness Management

Description
Description and application of management and financial principles, market planning, and organization theory in small business situations.
Repeatable: up to 3 credits.

Learning Outcomes

Name
1.Demonstrate, refine and expand written and oral communication skills.

Name
2.Develop an understanding of basic financial statements, their use and analysis.

Name
3.Understand the roles management and management styles play in modern agribusiness.

Name
4.Learn about the history of agribusiness domestically and internationally.

Name
5.Integrate the role of technology into modern agribusiness management.

Common Course Numbering Crosswalk

Past Course Numbers
AG E 236

AEEC 2120 - Introduction to Food and Agribusiness Accounting

General

Subject code	Course Number	Course Title
AEEC	2120	Introduction to Food and Agribusiness Accounting

Description
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.
Repeatable: up to 3 credits.

Learning Outcomes

Name
1. Understand the terminology and principles used in modern farm and ranch financial management statements.

Name
2. Evaluate capital investments, analyze farm business performance, and develop tools for financial planning and analysis.

Name
3. Evaluate farm and ranch cash flows.

Common Course Numbering Crosswalk

Past Course Numbers
AG E 260

AEEC 2130G - Survey of Food and Agricultural Issues

General

Subject code	Course Number	Course Title
AEEC	2130G	Survey of Food and Agricultural Issues

Description
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.
Crosslist: FSTE 2130G.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Understand of global agriculture including production techniques used in various geographical regions, consumption trends, and political and social constraints.

Name
2. Synthesis information about agricultural issues and make informed arguments.

Name
3. Articulately discuss modern issues in agriculture.

Name
4.Write coherent arguments relative to personal beliefs regarding agricultural issues.

Common Course Numbering Crosswalk

Past Course Numbers
AG E 210G

AEEC 2140 - Technology and Communication for Business Management

General

Subject code
AEEC

Course Number
2140

Course Title
Technology and Communication for Business Management

Description
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.
Repeatable: up to 3 credits. (2+2P)

Learning Outcomes

Name
1. Demonstrate an understanding terms used to describe common techniques and concepts in business information systems.

Name
2. Demonstrate mastery of spreadsheet design and use.

Common Course Numbering Crosswalk

Past Course Numbers
AG E 250

AEEC 2996 - Topics in Agricultural Economics

General

Subject code
AEEC

Course Number
2996

Course Title
Topics in Agricultural Economics

Description
Specific subjects and credits to be announced in the Schedule of Classes.

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
AG E 200

AGRO 1110G - Introduction to Plant Science (Lecture & Laboratory)

General

Subject code
AGRO

Course Number
1110G

Course Title
Introduction to Plant Science (Lecture & Laboratory)

Description
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. (3+2P)
Crosslist: HORT 1115G.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Describe the basic structure of plants including growth and function.

Name
2. Define photosynthesis, respiration, and translocation.

Name
3. Utilize plant taxonomy techniques to identify various plants.

Name
4. Classify soils based on their chemical and physical properties.

Name
5. Explain how different soil properties affect plant growth and sustainability.

Common Course Numbering Crosswalk

Past Course Numbers
AGRO 100G

AGRO 2160 - Plant Propagation

General

Subject code
AGRO

Course Number
2160

Course Title
Plant Propagation

Description
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.
Crosslist: HORT 2160. (2+2P)

General Education Course
Academic

Learning Outcomes

Name
1.Practical methods of propagating plants by seed, cuttings, layering, grafting, division, and tissue culture through experiential, hands-on laboratories.

Name
2.Relevant physiological principles involved in propagating horticultural plants through lecture discussions and readings.

Common Course Numbering Crosswalk

Past Course Numbers
AGRO 250

AGRO 2996 - Topics in Agronomy

General

Subject code	Course Number	Course Title
AGRO	2996	Topics in Agronomy

Description
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.
Repeatable: up to 9 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
AGRO 200

AHS 140 - Essentials of Anatomy and Physiology

General

Subject code	Course Number	Course Title
AHS	140	Essentials of Anatomy and Physiology

Description
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. (3+3P)

General Education Course
Academic

Learning Outcomes

Name
1. Use the appropriate terminology to describe the human body, the chemistry of life, cell structure, metabolism, cellular reproduction, and tissues.

Name
2. Identify the structures and functions of the major body systems.

Name
3. Examine common pathologies of the major body systems.

Name
4. Describe how the body maintains homeostasis and analyze teach body system's role in maintaining the body's internal environment.

Name
5.Explain the physiological changes and effects that aging has on each specific body system.

AHS 190 - Clinical Skills & Concepts for Medical Assisting I

General

Subject code	Course Number	Course Title
AHS	190	Clinical Skills & Concepts for Medical Assisting I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Apply theoretical knowledge associated with medical assisting in providing basic healthcare services.

Name
2. Perform essential clinical skills within the medical assistant scope of practice in ambulatory clinic settings.

Name
3. Recognize factors that affect procedures and results, and take appropriate actions with predetermined limits when indicated, including patient compromise or complications.

Name
4. Demonstrate professional conduct and interpersonal communication skills with patients, other health care professionals, and with the public.

Name
5. Recognize the responsibilities of other health care personnel and interact with them with respect for their jobs and patient care.

Name
6. Apply basic scientific principles in learning new techniques and procedures.

Name
7. Relate vital sign and laboratory findings to common disease processes.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in OATS208 Medical Office Procedures

AHS 202 - Legal and Ethical Issues in Health Care

General

Subject code	Course Number	Course Title
AHS	202	Legal and Ethical Issues in Health Care

Description
Introduction and consideration of legal and ethical throughout the health care delivery methodologies.

General Education Course
Academic

Learning Outcomes

Name
1. Explain the need for the health care practitioner to develop the science, clinical expertise, and professional conduct aspects of his or her career choice.

Name
2. Identify common components of public law and evaluate how needs and values shape our decision making.

Name
3. Describe the common theories and methods used in making value decisions and the common elements of private law encountered in health care practice.

Name
4. Define and apply the basic principles found in health care ethics.

Name
5. Describe the current problems associated with the principle of confidentiality/privacy as it is applied in modern health care.

Name
6. Identify aspects of the current national health care crisis and to examine potential solutions under the principle of justice.

Name
7. Compare and contrast the various arguments used for and against ethical issues in healthcare, including abortion, end of life decisions, and biological research.

ANSC 1110 - Animal Science Careers

General

Subject code	Course Number	Course Title
ANSC	1110	Animal Science Careers

Description
Introduction to scientific disciplines and career options in animal-agriculture career skill development, including resume preparation, networking, importance of internships, and leadership experiences in animal agriculture.

Learning Outcomes

Name
1.Increasing the understanding of career opportunities in animal agriculture.

Name
2.Gain a broad experience in the development of creative thinking about the career choices available in animal agriculture.

Name
3.Apply the increased knowledge of career development in the career path and internship directions for each student.

Name
4.Gain leadership experience that will be impactful for the student in their pursuit of a career in animal agriculture.

Prerequisites/Corequisites

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 220

ANSC 1120 - Introduction to Animal Science

General

Subject code	Course Number	Course Title
ANSC	1120	Introduction to Animal Science

Description
Survey of the livestock industry throughout the world. Basic management practices will be covered, including livestock selection, nutrition, reproduction, anatomy and marketing to the consumer. This course will also discuss animal behavior and welfare.

Learning Outcomes

Name
1.Understand the role of farm animals in a global setting.

Name
2.Describe the role of nutrition, breeding, behavior, welfare, and physiology of livestock in the world.

Name
3.Explain the structure and organization of livestock industries.

Name
4.Discuss concepts and terminology of the livestock industries as they relate to the global perspective.

Name
5.Classify the overall management, care, marketing of animals, represented in the various livestock industries.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): ANSC1120L Introduction to Animal Science Laboratory

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 100

ANSC 1120H - Introduction to Animal Science Honors

General

Subject code	Course Number	Course Title
ANSC	1120H	Introduction to Animal Science Honors

Description
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. Prerequisite(s): Eligibility for membership in honors college.

Learning Outcomes

Name
1.Understand the role of farm animals in a global setting.

Name
2.Describe the role of nutrition, breeding, behavior, welfare, and physiology of livestock in the world.

Name
3.Explain the structure and organization of livestock industries.

Name
4.Discuss concepts and terminology of the livestock industries as they relate to the global perspective.

Name
5.Classify the overall management, care, marketing of animals, represented in the various livestock industries.

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 100 H

ANSC 1120L - Introduction to Animal Science Laboratory

General

Subject code	Course Number	Course Title
ANSC	1120L	Introduction to Animal Science Laboratory

Description
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. (2P)

Learning Outcomes

Name
1. To provide the students with an understanding of the principles, concepts and terminology of today's livestock industry.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): ANSC1120 Introduction to Animal Science

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 100 L

ANSC 1130 - Western Equitation I

General

Subject code	Course Number	Course Title
ANSC	1130	Western Equitation I

Description
Basic principles of Western riding, including care and management of the riding horse, equitation equipment, and development of riding skills. (4P)

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 190

ANSC 1140 - Introduction to Dairy Science

General

Subject code	Course Number	Course Title
ANSC	1140	Introduction to Dairy Science

Description
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.

Learning Outcomes

Name
1.Learn key concepts in dairy production and management.

Name
2.Be familiar with terms used in production of milk and milk products.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): ANSC1120 Introduction to Animal Science

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 205

ANSC 1160 - Introductory Horse Science

General

Subject code	Course Number	Course Title
ANSC	1160	Introductory Horse Science

Description
The light horse industry; breeds; introduction to feeding, breeding, marketing and management; handling and selecting horses for breeding and performance. (2+2P)

Learning Outcomes

Name
1.Describe and identify breeds of horses, their characteristics and their uses.

Name
2.Demonstrate knowledge of basic physiology of horses by recalling parts of the horse, including bones, muscle, tendons and ligaments. Also, by ageing horses via teeth, body condition scoring and taking vital signs.

Name
3.Demonstrate safe and proper handling of horses.

Name
4.Demonstrate comprehension of basic nutrition and feedstuffs by formulating/correcting diets in clinical and non-clinical situations.

Name
5.Recall aspects of basic reproduction by calculating a stallion book and recalling appropriate procedures for breeding.

Name
6.Create informative articles that seek to educate the lay horse person about a topic covered in class.

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 103

ANSC 1170 - Introduction to Animal Metabolism

General

Subject code	Course Number	Course Title
ANSC	1170	Introduction to Animal Metabolism

Description
Principles underlying the mechanisms of animal metabolism as they relate to production, maintenance, and health of animals.
Prerequisite(s): CHEM 1215G.

Learning Outcomes

Name
1. This course provides an introduction to the study of the physiology of life.

Name
2. The first part of the course covers acids and bases and the chemical nature of organic compounds.

Name
3. The second part of the course relates to the chemistry of biomolecules (nutrients) and summarizes the chemical reactions of life (metabolism).

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 261

ANSC 1180 - Companion Animal Metabolism

General

Subject code	Course Number	Course Title
ANSC	1180	Companion Animal Metabolism

Description
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. Repeatable: up to 3 credits.

Learning Outcomes

Name
1.Discuss the theories regarding why, how, and when companion animals became domesticated.

Name
2.Describe how selective breeding has optimized certain physiological and behavioral traits of companion animals in order to fulfill the needs of individual people and society.

Name
3.Explain the concept of human-companion animal interaction (HAI) and the influence this bond has on human behavior, health, society, and government policy/laws.

Name
4.Understand the breadth and economic impact of the rapidly expanding companion animal industry and the recent expenditure trends of pet owners.

Name
5.Discuss the past and present uses of companion animals and theorize regarding the future uses of companion animals in society.

Name
6.Be effective in searching for, and critically evaluating, scientific based resources.

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 112

ANSC 2120 - Equine Management

General

Subject code	Course Number	Course Title
ANSC	2120	Equine Management

Description
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(s): ANSC 1160.

Learning Outcomes

Name
1. Develop a working knowledge of the business principles needed to operate a successful entrepreneurial enterprise.

Name
2. Increase the awareness of the need for business principles in the aggregate function of an equine operation.

Name
3. Gain a greater perspective of accounting, economic and financial principles in an equine business operation.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ANSC1160 Introductory Horse Science

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 288

ANSC 2130 - Western Equitation II

General

Subject code	Course Number	Course Title
ANSC	2130	Western Equitation II

Description
Intermediate principles of Western riding, including reading horse behavior, limbering-up exercises, and developing riding skills. Introduction to rollbacks, turnarounds and stops. (4P)

Learning Outcomes

Name
1. Increasing the understanding of the student relative to equitation practices.

Name
2. Increase the students ability to apply principles of Western Equitation to applied settings across a broad spectrum of outlets.

Name
3. Prepare the student to engage equine in a professional manner.

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 290

ANSC 2140 - Introduction to Companion Animal Science

General

Subject code	Course Number	Course Title
ANSC	2140	Introduction to Companion Animal Science

Description
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.
Repeatable: up to 3 credits.

Learning Outcomes

Name
1.Accurately use scientific terminology common to the companion animal discipline.

Name
2.Compare and contrast the physiological similarities and differences between the various companion animal species studied in class.

Name
3.Create dietary plans based on the nutritional needs of different companion animal species to optimize animal health and lifespan.

Name
4.Identify symptoms of disease/injury at the early stages of illness in order to obtain Veterinary care and treatment as quickly as possible.

Name
5.Design and construct species specific cages/vivarium to maximize animal well-being and health.

Name
6.Educate others regarding providing the best possible care for a variety of companion animal species.

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 285

ANSC 2150 - Management of Equine Operations

General

Subject code	Course Number	Course Title
ANSC	2150	Management of Equine Operations

Description
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.

Learning Outcomes

Name
1.Acquire a working knowledge of different sectors of the equine industry, including business practices, management and marketing skills.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ANSC1160 Introductory Horse Science

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 289

ANSC 2310 - Introduction to Meat Science

General

Subject code	Course Number	Course Title
ANSC	2310	Introduction to Meat Science

Description
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. (2+3P)
Provides lab.

Learning Outcomes

Name
1.Increasing the understanding of meat science applications across animal agriculture.

Name
2.Increase the students ability to apply principles of production to the industry perspective.

Name
3.Apply the increased knowledge of meat science in a global situation.

Name
4.Gain an understanding of the components involved in the development and processing of the red meat industry.

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 262

ANSC 2330 - Animal Production

General

Subject code	Course Number	Course Title
ANSC	2330	Animal Production

Description
Production and utilization of beef cattle, sheep, and swine; emphasis on feeding, breeding, management problems and marketing; selection of animals for breeding and market. (2+2P)

Learning Outcomes

Name
1.Increasing the understanding of meat animal production.

Name
2.Increase the students ability to apply principles of production to the industry perspective.

Name
3.Apply the increased knowledge of meat animal production to global situations.

Name
4.Gain a broader understanding of the importance of meat animals in the global food system.

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 200

ANSC 2340 - Genetics in Animal Science

General

Subject code	Course Number	Course Title
ANSC	2340	Genetics in Animal Science

Description
Introduction to genetics and inheritance relative to livestock production. Introduction to procedures for collection and use of performance information in livestock improvement programs.
Prerequisite(s): BIOL 2610G.

Learning Outcomes

Name
1.Gain a broader understanding of the role genetic impacts in the livestock industry.

Name
2.Employ an increased knowledge of impact of genetics in the food animal industry and the production and economic principles that apply.

Name
3.Recognition of the global impacts of genetics in the food animal industry in a global setting.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in BIOL2610G Principles of Biology: Biodiversity, Ecology, and Evolution

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 201

ANSC 2996 - Topics in Animal Science

General

Subject code	Course Number	Course Title
ANSC	2996	Topics in Animal Science

Description
Varies

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
ANSC 250

ANTH 1115G - Introduction to Anthropology

General

Subject code	Course Number	Course Title
ANTH	1115G	Introduction to Anthropology

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Describe and summarize terms, approaches, and cultural and biological adaptations in the four subfields of anthropology.

Name
2. Explain and analyze conceptual and ethical arguments in the four subfields of anthropology.

Name
3. Effectively communicate content, perspectives, and ideas in four subfields of anthropology.

Name
4. Critically evaluate sources, approaches, and arguments in the four subfields of anthropology.

Common Course Numbering Crosswalk

Past Course Numbers
ANTH 201G

ANTH 1135G - Introduction to Biological Anthropology

General

Subject code	Course Number	Course Title
ANTH	1135G	Introduction to Biological Anthropology

Description
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.

General Education Course
Area III, Academic

Learning Outcomes

Name
1.Summarize the basic principles of evolution and recognize how they apply to the human species.

Name
2.Recognize the biological and behavioral continuity of humans with all life, and especially other modern primate species.

Name
3.Identify ways in which the human species is biologically and behaviorally unique.

Name
4.Summarize fossil evidence for human evolution.

Name
5.Distinguish the major Paleolithic industries and outline the behavioral and cognitive changes indicated by the fossil and archeological evidence.

Name
6.Critically evaluate popular accounts of human variation and human evolution.

Name
7.Interpret modern human dilemmas (e.g., overpopulation, co-evolution of disease, and genetic engineering) from an evolutionary perspective.

Name
8.Discuss in class and analyze in writing scholarly arguments concerning course concepts.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): ANTH1135L Introduction to Biological Anthropology Laboratory

Common Course Numbering Crosswalk

Past Course Numbers
ANTH 130G

ANTH 1135L - Introduction to Biological Anthropology Laboratory

General

Subject code	Course Number	Course Title
ANTH	1135L	Introduction to Biological Anthropology Laboratory

Description
This laboratory course expands 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. (2P)
Provides lab.

General Education Course
Area III, Academic

Learning Outcomes

Name
1.Demonstrate an understanding of the scientific method.

Name
2.Employ principles of Mendelian genetics to determine genotype and phenotype probabilities, and calculate gene, genotype, and phenotype frequencies using the Hardy-Weinberg Equilibrium formula.

Name
3.Demonstrate an understanding of cell structure and functions.

Name
4.Use common lab and anthropometric equipment such as a compound microscope and calipers.

Name
5.Discuss primate evolution, and compare and contrast members of the Primate order in terms of structure, behavior, and phylogeny.

Name
6.Classify hominid species based upon selected traits such as anatomical changes associated with bipedalism, changes in the size and structure of the brain, and the development of culture.

Name
7.Locate and describe the major bones of the human skeleton, and identify characteristics of human skeletons or skulls such as gender, age, and ancestry.

Name
8.Discuss current research in genome analysis of various hominid populations.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): ANTH1135G Introduction to Biological Anthropology

Common Course Numbering Crosswalk

Past Course Numbers
ANTH 130GL

ANTH 1136 - Introduction to Historic Preservation

General

Subject code	Course Number	Course Title
ANTH	1136	Introduction to Historic Preservation

Description
Introduction to historic preservation, its history, goals, methods, legal basis, and economic importance. Explores public role in decision-making.

General Education Course
Academic

Learning Outcomes

Name
1.Understand WHY historic preservation is important;

Name
2.Be familiar with WHAT is important to preserve;

Name
3.Know WHO among the general public, state, and federal governments is responsible for preserving the past;

Name
4.Have gained experience in HOW we all preserve.

Common Course Numbering Crosswalk

Past Course Numbers
ANTH 118

ANTH 1137G - Human Ancestors

General

Subject code	Course Number	Course Title
ANTH	1137G	Human Ancestors

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Describe the evolution of the human species, from its origin in the primate order to the emergence of Homo sapiens, and to the present-day.

Name
2. Describe the social lives of apes and identify similarities to and differences between apes and humans.

Name
3. Explain the biological foundations of human behavior.

Common Course Numbering Crosswalk

Past Course Numbers
ANTH 120G

ANTH 1140G - Introduction to Cultural Anthropology

General

Subject code	Course Number	Course Title
ANTH	1140G	Introduction to Cultural Anthropology

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1.Introduce students to the basic concepts and research methods of cultural anthropology as one of the disciplines of social science, including fundamental concepts, such as culture and society, which form the pillars of the discipline (e.g., cultural relativism, cultural persistence and change, world-view and enculturation).

Name
2.Comprehend the importance of studying cultural anthropology.

Name
3.Demonstrate knowledge of the practice of anthropological research in the modern world that is increasingly multicultural, transnational and globally interconnected (e.g., globalization and modern world system).

Name
4.Demonstrate an awareness of how students own cultures shape their experiences and the way they see the world, as well as help them understand and interact with other cultures.

Name
5.Understand how beliefs, values and assumptions are influenced by culture, biology, history, economic, and social structures.

Name
6.Gain a sense of relationship with people possessing different experiences from their own.

Name
7.Gain a deeper understanding and appreciation for cultural anthropology as a broad discipline through learning about its practices, and differentiating cultural anthropology from other disciplines that study people.

Name
8.Become more sensitive and engaged global citizens from culturally relative perspectives.

Common Course Numbering Crosswalk

Past Course Numbers
ANTH 125G

ANTH 1160G - World Archaeology

General

Subject code	Course Number	Course Title
ANTH	1160G	World Archaeology

Description
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 civilizations.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1.Basic overview and understanding of evolutionary theory .

Name
2.Understanding of how evolution by natural selection may affect human behavior.

Name
3.Understand the factors that led to the evolution of the human life course.

Name
4.Understand what features of the human life course are unique among primates.

Name
5.Appreciate how contemporary and historical variation in individual and social behaviors vary with each stage of the life course.

Common Course Numbering Crosswalk

Past Course Numbers
ANTH 202G

ANTH 2140G - Indigenous Peoples of North America

General

Subject code	Course Number	Course Title
ANTH	2140G	Indigenous Peoples of North America

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1.Demonstrate familiarity with common elements pertaining to the languages and social organization of indigenous peoples in North America.

Name
2.Recognize fundamental differences and similarities among traditional indigenous cultures.

Name
3.Describe social relations of indigenous peoples in relationship to other ethnic groups.

Name
4.Identify and analyze important ways that European societies and cultures and indigenous societies and cultures interacted from the time of Columbus to the present.

Name
5.Evaluate the impacts of Euromerican policies and programs on indigenous cultures.

Name
6.Distinguish major social issues facing contemporary indigenous communities in North America.

Name
7.Understand objectives and limitations of cross-cultural analysis in anthropology as they relate to the study of indigenous peoples in North America.

Name
8.Demonstrate research and communication skills as they relate to the study of indigenous peoples in North America.

Common Course Numbering Crosswalk

Past Course Numbers
ANTH 115

ANTH 2150 - Indigenous Peoples of the American Southwest

General

Subject code	Catalog Code	Course Number	Course Title
ANTH	ANTH 2150G	2150	Indigenous Peoples of the American Southwest

Description
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.

General Education Course
Academic

Common Course Numbering Crosswalk

Past Course Numbers
ANTH 116

ANTH 2160 - Prehistoric Peoples of the American Southwest

General

Subject code	Course Number	Course Title
ANTH	2160	Prehistoric Peoples of the American Southwest

Description
This course will explore many aspects of prehistoric peoples in the American Southwest. Beginning with the populating of the Southwest, this course will discuss interactions between these populations and their environment, as well as technological advances, subsistence practices, social structures, and settlement patterns. The course will also explore the processes of change and how prehistoric populations compare with modern ones.

General Education Course
Academic

Learning Outcomes

Name
1. Identify major prehistoric populations of the American Southwest.

Name
2. Describe the roles of anthropology and its sub-fields, especially archeology, in studying prehistoric populations of the American Southwest.

Name
3. Explain the importance of geography, environment, technological advances, subsistence practices, social structures, and settlement patterns on cultural developments among prehistoric southwestern populations.

Name
4. Analyze and evaluate theoretical explanations for cultural developments among prehistoric Southwestern populations.

Name
5. Compare and contrast similarities and differences between prehistoric Southwestern populations.

Name
6. Apply and communicate course concepts pertaining to prehistoric populations of the American Southwest through modes such as archeological projects/experiments, discussions, and writing assignments.

Name
7. Develop a nuanced understanding of the prehistoric American Southwest and how they interacted.

Name
8. Gain an understanding of the diversity of human behavior in the past and learn about commonalities, which unite humans across time and space.

ANTH 2996 - Topics in Anthropology

General

Subject code	Course Number	Course Title
ANTH	2996	Topics in Anthropology

Description
Varies

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
ANTH 297

ARCH 1105 - Orientation and Mentoring in Architecture-Construction Engineering (ACE)

General

Subject code	Course Number	Course Title
ARCH	1105	Orientation and Mentoring in Architecture-Construction Engineering (ACE)

Description
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. Repeatable: up to 6 credits.

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 150

ARCH 1110 - Architectural Drawing

General

Subject code	Course Number	Course Title
ARCH	1110	Architectural Drawing

Description
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.

Learning Outcomes

Name
1.Gain understanding of basic methods of architectural drawing.

Name
2.Explore and gain understanding of concepts of spatial design and its representation through exercises that stress analytical ability and an awareness of rational design process.

Name
3.Gain an understanding of the design process with practice and various exercises.

Name
4.Gain exposure to architectural delineation.

Name
5.Demonstrate an understanding of specific skills and concepts related to architectural drawing.

Name
6.Create and modify architectural models through various phases of a project.

Name
7.Demonstrate a knowledge of graphic standards according to industry conventions.

Name
8.Identify the various phases of work with regard to the architectural and interior design professions.

Name
9.Develop analytical and critical thinking skills.

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 104

ARCH 1112 - Global Issues and Sustainability

General

Subject code	Course Number	Course Title
ARCH	1112	Global Issues and Sustainability

Description

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.
Repeatable: up to 3 credits.

Learning Outcomes

Name
1. Discover global environmental history to better understand sustainable topics and change your behavior in the future.

Name
2. Expand your knowledge on environment, natural resource consumption, human intervention, politics, and design and construction industry to support your education and future careers.

Name
3. Learn how the US Green Building Council LEED (Leadership in Energy and Environmental Design) certification and Accredited Professional training expands your knowledge on green building design criteria; will help you determine whether you want to take the LEED exam.

Name
4. Examine the many sides of climate change and its effects on the globe as well as our individual microclimate and personal lives to learn how to adapt to the current changes.

Name
5. Learn how to effectively research, report, present, and debate environmental topics to help you in your education and future careers.

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 124

ARCH 1114 - Introduction to Architectural Design

General

Subject code	Course Number	Course Title
ARCH	1114	Introduction to Architectural Design

Description

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 1110 and ARCH 1120 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.

Learning Outcomes

Name
1. Develop critical thinking strategies through a series of connected exercises in order to explain, demonstrate, categorize, compare, contrast and assess information/ evidence.

Name
2. Explore concepts of design through spatial design and apply these concepts through a series of progressive representational exercises that stress analytical ability and an awareness of rational design process.

Name
3. Gain skills in the application of graphical communication in a range of media.

Name
4. Enhance abilities in selecting specific information and applying that information to problem solve issues/ concerns required to complete a task, while considering other implications.

Name
5. Develop skill sin writing and speaking effectively and use representational media appropriate for both within the profession and with the public.

Name
6. Gather, assess, record, and comparatively evaluate relevant information and performance in order to support conclusions related to a specific project or assignment.

Name
7. Utilize basic formal, organizational and environmental principles and the capacity of each to inform two- and three-dimensional design.

Name
8. Apply fundamentals of both natural and formal ordering systems and the capacity of each to inform two- and three-dimensional design.

Name
9. Demonstrate basic principles of structural systems and their ability to withstand gravitational, seismic, and lateral forces, as well as the selection and application of the appropriate structural system.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in ARCH1110 Architectural Drawing and ARCH1120 Introduction to Architecture

Common Course Numbering Crosswalk

Past Course Numbers

ARCT 154

ARCH 1120 - Introduction to Architecture

General

Subject code	Course Number	Course Title
ARCH	1120	Introduction to Architecture

Description

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.

Learning Outcomes

Name
1.Identify and describe significant architects and iconic buildings.

Name
2.Discuss social, cultural, and aesthetic contributions of specific architects and projects.

Name
3.Explain architectural concepts via written and graphic communication.

Name
4.Recall basic processes and vocabulary of architectural professional practice.

Name
5.Understand our built environment and the language of design and architecture.

Name
6.Understand how buildings are constructed and explain the process of development.

Name
7.Describe and discuss design elements, principles, and theories.

Name
8.Understand the relationships among owner, surveyors, designers, architects, engineers, and contractors.

Name
9.Research design texts and analyze buildings, landscapes, interiors, sustainability, and products to increase knowledge of important elements of architecture and design.

Name
10.Identify the various styles, periods, and movements and their social, historical, and technical impacts on architecture.

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 101

ARCH 1121 - Computers in Architecture

General

Subject code	Course Number	Course Title
ARCH	1121	Computers in Architecture

Description
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.

Learning Outcomes

Name
1.Demonstrate the use of the computer and plotters/printers.

Name
2.Define and understand different terminologies.

Name
3.Demonstrate the understanding of different files using windows operating system.

Name
4.Understanding the appropriate use of the software in order to produce necessary drafting outcomes.

Name
5.Use proper plotting and printing procedures in order to increase efficiency and minimize paper waste.

Name
6.Demonstrating the use of different line types as the relate to drafting.

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 170

ARCH 1122 - Architectural Design Studio I

General

Subject code	Course Number	Course Title
ARCH	1122	Architectural Design Studio I

Description
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.
Repeatable: up to 5 credits.

Learning Outcomes

Name
1.Write and speak effectively and use representational media appropriate for both within the profession and with the general public.

Name
2.Raise clear and precise questions, use abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test alternative outcomes against relevant criteria and standards.

Name
3.Gather, assess, record, and comparatively evaluate relevant information and performance in order to support conclusions related to a specific project or assignment.

Name
4.Effectively use basic formal, organizational and environmental principles and the capacity of each to inform two- and three-dimensional design.

Name
5.Apply the fundamentals of both natural and formal ordering systems and the capacity of each to inform two- and three-dimensional design.

Name
6.Examine and comprehend the fundamental principles present in relevant precedents and to make informed choices about the incorporation of such principles into architecture and urban design projects.

Name
7.Prepare a comprehensive program for an architectural project that includes an assessment of client and user needs; an inventory of spaces and their requirements; an analysis of site conditions (including existing buildings); a review of the relevant building codes and standards, including relevant sustainability requirements, and an assessment of their implications for the project; and a definition of site selection and design assessment criteria.

Name
8.Respond to site characteristics, including its context and developmental patterning, the fabric, soil, topography, ecology, climate, and building orientation, in the development of a project design.

Name
9.Design sites, facilities, and systems that are responsive to relevant codes and regulations, and include the principles of life-safety and accessibility standards.

Name
10.Demonstrate the basic principles of structural systems and their ability to withstand gravitational, seismic, and lateral forces, as well as the selection and application of the appropriate structural system.

Name
11.Understand the basic principles involved in the appropriate selection and application of building envelope systems relative to fundamental performance, aesthetics, moisture transfer, durability, and energy and material resources.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARCH1110 Architectural Drawing and ARCH1120 Introduction to Architecture

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 204

ARCH 1135 - Technical Documentation with Auto CAD I

General

Subject code	Course Number	Course Title
ARCH	1135	Technical Documentation with Auto CAD I

Description
An introduction to basic computer-aided drafting concepts using AutoCAD. Students will learn drafting techniques that are in common use within the industry. Emphasis is placed on drawing setup, creating and modifying geometry, storing and retrieving files, placing, rotating, and scaling objects, adding text and dimensions, using layers, creating blocks, and interpreting and constructing plan, elevation, and section views.

General Education Course
Technical

Learning Outcomes

Name
1. Execute commands that are used in the creation of a drawing file.

Name
2. Create geometry that represents building objects.

Name
3. Execute modify commands to manipulate user-generated geometry.

Name
4. Create and manage multiple annotation objects within a drawing file.

Name
5. Create, modify, and export blocks in a drawing file.

Name
6. Create and analyze plan, elevation, and section views.

ARCH 1220 - Architectural World History I

General

Subject code	Course Number	Course Title
ARCH	1220	Architectural World History I

Description
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.

Learning Outcomes

Name
1. Identify major architectural monuments from prehistory to the Renaissance (1400's) in the Western world.

Name
2. Demonstrate an understanding of major monuments, styles of architecture and building traditions of non-Western cultures.

Name
3. Recognize the relationship of movements and styles in Western architecture to their counterparts in painting and sculpture from the various historical periods.

Name
4. Describe the basic principles of urban design.

Name
5. Express an appreciation of architectural achievements and the ways in which the elements of art {line, form, color, texture, light, etc.) combine to produce objects of beauty in the built environment.

Name
6.Describe basic engineering concerns and achievements in architecture.

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 111

ARCH 1310 - Introduction to Architecture, Engineering & Construction

General

Subject code	Course Number	Course Title
ARCH	1310	Introduction to Architecture, Engineering & Construction

Description
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.

Learning Outcomes

Name
1. Prepare accurate written technical documents, Produce drawing documents that are technically sound.

Name
2. Develop and practice productive work skills.

Name
3. Upgrade technical knowledge and skills to keep pace with real-world changes ARCT 100 Course Competencies.

Name
4. Describe different career options in architecture, engineering, and construction.

Name
5 Define the roles of different design professionals and support staff.

Name
6. Explain related educational and professional licensing requirements.

Name
7. Articulate employer expectations, Explore related courses and programs of study.

Name
8. Develop good workplace skills and professional, productive work habits.

ARCH 2111 - Architectural Delineation I

General

Subject code	Course Number	Course Title
ARCH	2111	Architectural Delineation I

Description
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.
Repeatable: up to 3 credits.

Learning Outcomes

Name
1.Develop and utilize visual observation skills .

Name
2.Translate visual observations into graphical information.

Name
3.Develop and utilize critical thinking in the development of projects.

Name
4.Develop effective line drawing techniques.

Name
5.Produce graphical representations using various shading techniques.

Name
6.Communicate design concepts and ideas clearly.

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 210

ARCH 2113 - Sustainable Design in Architecture

General

Subject code	Course Number	Course Title
ARCH	2113	Sustainable Design in Architecture

Description
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).

Learning Outcomes

Name
1.Understand Global Issues that impact sustainability of resources and quality of/equity in life.

Name
2.Understand the impact of buildings on the environment.

Name
3.Identify the basic principles of green design and construction.

Name
4.Identify and Interpret basic principles of the LEED green building rating system.

Name
5.Engage in research of green technologies and design practices.

Name
6.Understand the essential steps of the design process.

Name
7.Develop a basic building design which qualifies for at least LEED Certified rating.

Name
8.Utilize a BIM integrated software package to develop a virtual Building Information Models.

Name
9.Develop presentation posters and slideshow of design work.

Name
10.Conduct project presentations, and critique work of peers in a clear, concise manner.

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 224

ARCH 2114 - Construction Documents

General

Subject code	Course Number	Course Title
ARCH	2114	Construction Documents

Description
Basic use of CAD and Building Information Modeling (BIM) 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.
Repeatable: up to 3 credits.

Learning Outcomes

Name
1.Create full 3D architectural project models, both via tutorials, and independently .

Name
2.Set models up as working drawings.

Name
3.Have a working knowledge of the tools that the majority of users will use to work with Revit Architecture.

Name
4.Project File management skills.

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 250

ARCH 2115 - Architecture Design Studio II

General

Subject code	Course Number	Course Title
ARCH	2115	Architecture Design Studio II

Description
Advanced graphic communication, design and 3D physical model representation. Focus on site analysis, programing and fundamental design issues of context, environment, program development and space planning, 2D and 3D design and presentation techniques. The Course is 'Studio/critique-based' with considerable amount of outside work/hours required.

Learning Outcomes

Name
1.Write and speak effectively and use representational media appropriate for both within the profession and with the general public.

Name
2.Raise clear and precise questions, use abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test alternative outcomes against relevant criteria and standards.

Name
3.Gather, assess, record, and comparatively evaluate relevant information and performance in order to support conclusions related to a specific project or assignment.

Name
4.Effectively use basic formal, organizational and environmental principles and the capacity of each to inform two- and three-dimensional design.

Name
5.Apply the fundamentals of both natural and formal ordering systems and the capacity of each to inform two- and three-dimensional design.

Name
6.Examine and comprehend the fundamental principles present in relevant precedents and to make informed choices about the incorporation of such principles into architecture and urban design projects.

Name
7.Prepare a comprehensive program for an architectural project that includes an assessment of client and user needs; an inventory of spaces and their requirements; an analysis of site conditions (including existing buildings); a review of the relevant building codes and standards, including relevant sustainability requirements, and an assessment of their implications for the project; and a definition of site selection and design assessment criteria.

Name
8.Respond to site characteristics, including its context and developmental patterning, the fabric, soil, topography, ecology, climate, and building orientation, in the development of a project design.

Name
9.Design sites, facilities, and systems that are responsive to relevant codes and regulations, and include the principles of life-safety and accessibility standards.

Name
10.Demonstrate the basic principles of structural systems and their ability to withstand gravitational, seismic, and lateral forces, as well as the selection and application of the appropriate structural system.

Name
11.Understand the basic principles involved in the appropriate selection and application of building envelope systems relative to fundamental performance, aesthetics, moisture transfer, durability, and energy and material resources.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARCH1120 Introduction to Architecture

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 254

ARCH 2116 - Architectural Delineation I

General

Subject code	Course Number	Course Title
ARCH	2116	Architectural Delineation I

Description
Continuation of ARCH 2111 with an emphasis in color media.
Repeatable: up to 3 credits.

Learning Outcomes

Name
1.Develop and utilize visual observation skills.

Name
2.Translate visual observations into graphical information.

Name
3.Develop and utilize critical thinking in the development of projects.

Name
4.Develop effective line drawing techniques.

Name
5.Produce graphical representations using various shading techniques.

Name
6.Communicate design concepts and ideas clearly.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARCH2111 Architectural Delineation I

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 260

ARCH 2122 - LEED Accreditation Exam Prep

General

Subject code	Course Number	Course Title
ARCH	2122	LEED Accreditation Exam Prep

Description
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.

Learning Outcomes

Name
1.The student completing this course should gain knowledge and skills for each of the topics covered in the Course Outline.

Name
2.Successful completion of this course should give each student a working knowledge of various LEED Rating Systems, and LEED GA Study Guides.

Name
3.Students will develop critical thinking strategies to enable them to develop preliminary design and plan checking for code compliance.

Name
4.Students should develop acceptable and productive work habits.

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 274

ARCH 2124 - Professional Development and Leadership

General

Subject code	Course Number	Course Title
ARCH	2124	Professional Development and Leadership

Description
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.
Repeatable: up to 6 credits.
Graded: S/U.

Learning Outcomes

Name
1. Leadership skills.

Name
2. Presentation techniques and public speaking.

Name
3. Organizational and teambuilding skills.

Name
4. Architecture-related skills.

Name
5. Community organizations and service.

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 295

ARCH 2220 - Architectural World History II

General

Subject code	Course Number	Course Title
ARCH	2220	Architectural World History II

Description
A survey of the development of world architecture from the enlightenment in Europe to the present.

Learning Outcomes

Name
1.Identify major architectural monuments from 1400 to the present in the Western world.

Name
2. Identify major architectural monuments from 1400 to the present in the Western world.

Name
3. Recognize the relationship of movements and styles in Western architecture to their counterparts in design, painting, and sculpture from the various historical periods.

Name
4. Describe the basic principles of urban design.

Name
5. Express an appreciation of architectural achievements and the ways in which the elements of art (line, form, color, texture, light, etc.) combine to produce objects of beauty in the built environment.

Name
6. Analyze basic engineering concerns and achievements in architecture.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARCH1220 Architectural World History I

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 211

ARCH 2994 - Portfolio in Architecture

General

Subject code	Course Number	Course Title
ARCH	2994	Portfolio in Architecture

Description
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 , in preparation for application to a 4 yr. Architecture program. Skills and techniques in architectural photography, scanning, and design layout using graphic software.

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 264

ARCH 2995 - Cooperative Education in Architecture

General

Subject code	Course Number	Course Title
ARCH	2995	Cooperative Education in Architecture

Description
Supervised cooperative work program. Student employed in approved occupation; supervised and evaluated by employer and instructor. Student meets weekly with instructor. Graded: S/U.

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 291

ARCH 2996 - Topics in Architecture

General

Subject code	Course Number	Course Title
ARCH	2996	Topics in Architecture

Description
Topics subtitled in the Schedule of Classes.
Repeatable: maximum of 12 credits.

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
ARCT 290

ARTH 1115G - Orientation in Art

General

Subject code	Course Number	Course Title
ARTH	1115G	Orientation in Art

Description
A multicultural examination of the principles and philosophies of the visual arts and the ideas expressed through them.

General Education Course
Area VI, Academic

Learning Outcomes

Name
1.Identify elements of art & principles of design.

Name
2.Articulate the relationship of art to the human experience.

Name
3.Write and discuss critically using the vocabulary of art.

Name
4.Interpret art within cultural, social, personal, and historical contexts.

Common Course Numbering Crosswalk

Name
5.Critically analyze an original work of art.

Past Course Numbers
ART 101G

ARTH 2110G - History of Art I

General

Subject code	Course Number	Course Title
ARTH	2110G	History of Art I

Description
This survey course explores the art and architecture of ancient pre-historic 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.

General Education Course
Area VI, Academic

Learning Outcomes

Name
1.Identify major artworks from a variety of regions and time periods.

Name
2.Investigate the methods of producing various works of art.

Name
3.Articulate an understanding and appreciation for the political, social, spiritual, intellectual, and cultural contexts of art forms.

Name
4.Comprehend and apply terms, methodologies and concepts common to studies of art history, developing a language to further understanding of art.

Name
5.Compare works across a range of historical styles and periods.

Common Course Numbering Crosswalk

Past Course Numbers
ART 295G

ARTH 2120G - History of Art II

General

Subject code	Course Number	Course Title
ARTH	2120G	History of Art II

Description
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. Repeatable: up to 3 credits.

General Education Course
Area VI, Academic

Learning Outcomes

Name
1.Identify major artworks from a variety of regions and time periods.

Name
2.Investigate the methods of producing various works of art.

Name
3.Articulate an understanding and appreciation for the political, social, spiritual, intellectual, and cultural contexts of art forms.

Name
4.Comprehend and apply terms, methodologies and concepts common to studies of art history, developing a language to further understanding of art.

Name
5.Compare works across a range of historical styles and periods.

Common Course Numbering Crosswalk

Past Course Numbers
ART 296G

ARTH 2136 - Writing in Art

General

Subject code	Course Number	Course Title
ARTH	2136	Writing in Art

Description
This class looks at the variety of writings associated with art history and studio art practice. It explores the discipline of art history itself, and introduces students to the specific ways in which art historians study art. Within a workshop setting, students will practice approaches to research, understanding art and writing about art. Students will also be introduced to professional writing practices, including digital formats, relating to studio art.

General Education Course
Academic

Learning Outcomes

Name
1.Develop visual literacy in looking at art.

Name
2.Analyze a complex art historical argument.

Name
3.Apply art specific vocabulary to critically-based writings and discussions of art.

Name
4.Develop writing skills to articulate the relationship of art to the human experience.

Common Course Numbering Crosswalk

Past Course Numbers
ARTS 2671

ARTS 1121 - Foundations in Art

General

Subject code	Course Number	Course Title
ARTS	1121	Foundations in Art

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Create original works of art through the investigation of ideas and concepts resulting in the communication of meaning. Develop forms that convey meaning.

Name
2.Evaluate works of art through critiques that appraise how the form communicates meaning. Justify the decisions that were made in the use and application of the chosen medium and form to communicate meaning in a work of art.

Name
3.Analyze the differences in clarity of communication between works of art based subject matter, medium and form.

Name
4.Apply knowledge provided in lectures to produce works of art that communicate meaning. Demonstrate an ability to express concepts in visual form.

Name
5.Understand how the choice of subject matter, medium and form translate in the expression of concepts through discussion and description.

Name
6.Remember the fundamental tenets of art, elements and principles of design, through the duplication of them in works of art as well their use in discussions.

Common Course Numbering Crosswalk

Past Course Numbers
ART 125

ARTS 1145G - Visual Concepts

General

Subject code	Course Number	Course Title
ARTS	1145G	Visual Concepts

Description
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. (2+4P)

General Education Course
Area VI, Academic

Learning Outcomes

Name
1.Develop understanding of history, major styles and contemporary issues in art.

Name
2.Introduce students to the language of visual perception and aesthetic evaluation.

Name
3.Introduce students to the fundamental processes of visual perception and artistic expression.

Name
4.Develop students confidence in using various art materials for artistic expression.

Name
5.Develop students ability to verbalize ideas and processes in art making.

Name
6.Develop students ability to communicate through writing about art and art experiences.

Common Course Numbering Crosswalk

Past Course Numbers
ART 110G

ARTS 1240 - Design I

General

Subject code	Course Number	Course Title
ARTS	1240	Design I

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Produce art works that apply and organize the elements of two-dimensional form (line, shape, value, texture, color and space).

Name
2.Produce artworks that apply the principles of two-dimensional design (harmony, variety, repetition, balance, rhythm, proportion, dominance, movement, and economy).

Name
3.Demonstrate effective use of materials and techniques with consideration for craftsmanship and presentation.

Name
4.Use visual art vocabulary in the development and critique of work.

Name
5.Explore concepts and ideas: from conceptual, realistic/referential to non-representational.

Common Course Numbering Crosswalk

Past Course Numbers
ART 155

ARTS 1250 - Design II

General

Subject code	Course Number	Course Title
ARTS	1250	Design II

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Apply the artistic qualities of the elements of art and principles of design to three-dimensional form.

Name
2.Create 3-dimensional form using varied sculptural methods, construction techniques and media.

Name
3.Produce 3 D design projects safely with proper use of equipment and materials.

Name
4.Apply realistic, referential, and abstract concepts and ideas to projects.

Name
5.Demonstrate knowledge of 3-D related art vocabulary, origin and trends in sculpture, and 3-D design fundamentals.

Common Course Numbering Crosswalk

Past Course Numbers
ART 156

ARTS 1310 - Introduction to Ceramics

General

Subject code	Course Number	Course Title
ARTS	1310	Introduction to Ceramics

Description
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. (2+4P)

General Education Course
Academic

Learning Outcomes

Name
1.Explain the transformation of the ceramic material from raw clay form to glazed ceramic object.

Name
2.Demonstrate proficiency of technical ceramic skills.

Name
3.Explain larger concepts and design principles.

Name
4.Apply basic 3-D design principles in the formation of a work of art, as they apply to the ceramic media.

Name
5.Create ceramic works of art based on conceptual prompts.

Name
6.Critically evaluate a variety of artwork.

Name
7.Gain an understanding of the history of ceramic art from a multicultural perspective.

Common Course Numbering Crosswalk

Past Course Numbers
ART 275

ARTS 1320 - Ceramics I

General

Subject code	Course Number	Course Title
ARTS	1320	Ceramics I

Description
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. (2+4P)

General Education Course
Academic

Learning Outcomes

Name
1.Demonstrate through critical discourse or writing an introductory knowledge of the history of ceramics, and ceramic language and terminology.

Name
2.Demonstrate through mechanical application an introductory knowledge of the properties of clays, glazes, and a variety firing techniques.

Name
3.Produce a body of work that exemplifies good ceramic design through the effective use of form, surface, and color.

Name
4.Through the production a body of work demonstrate competency in hand building and throwing on the wheel.

Common Course Numbering Crosswalk

Past Course Numbers
ART 276

ARTS 1410 - Introduction to Photography

General

Subject code	Course Number	Course Title
ARTS	1410	Introduction to Photography

Description
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. (2+4P)
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Gain fluency with basic camera function as well as a working knowledge of other photographic equipment and software to produce technically competent photographs.

Name
2.Have a familiarity with current image-editing software to enhance images as well as developing a digital workflow for the management of digital images.

Name
3.Be able to develop creative solutions to visual photographic problems.

Name
4.Gain awareness of contemporary issues in contemporary art photographic practice that can be applied to the ones own individual practice.

Name
5.Develop the ability to critically analyze and discuss photographic images.

Name
6.Print and produce a final project that demonstrates synthesis of ideas presented in the course readings, critiques, and individual research.

Name
7.Demonstrate photographic terminology, and the many ways photographs function in society, both currently and historically.

Common Course Numbering Crosswalk

Past Course Numbers
ART 270

ARTS 1520 - Digital Media I

General

Subject code	Course Number	Course Title
ARTS	1520	Digital Media I

Description
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 industry and basic elements and principles of design. (2+4P)

General Education Course
Academic

Learning Outcomes

Name
1.Demonstrate appropriate skills in configuring and navigating computer systems software applications as appropriate to digital image making needs including organization of files using keywords and running batch processes.

Name
2.Exhibit an understanding of a layer-based bitmap editing program, through photo retouching, precise use of selection tools, and color adjustment techniques.

Name
3.Create imagery using a vector-based illustration program which demonstrates an understanding of vector-based drawing tools.

Name
4.Integrate the use of bitmap and vector images using bitmap and vector-based image making applications to demonstrate a basic understanding of composition, color, and appropriate image size and resolution.

Common Course Numbering Crosswalk

Past Course Numbers
ART 161/ART 272

ARTS 1610 - Drawing I

General

Subject code	Course Number	Course Title
ARTS	1610	Drawing I

Description
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. (2+4P)
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Produce drawings that demonstrate techniques and mechanics of observational drawing.

Name
2.Demonstrate competency in the following practices: measuring and sighting, gesture, contour line, negative space, shape, value, space, volume, plane and texture.

Name
3.Create drawings primarily from observation with black and white traditional drawing media.

Name
4.Demonstrate effective verbal or written response to ones own art and the art of others.

Common Course Numbering Crosswalk

Past Course Numbers
ART 150

ARTS 1630 - Painting I

General

Subject code	Course Number	Course Title
ARTS	1630	Painting I

Description
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. (2+4P)
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Produce paintings that demonstrate the tradition of methods, techniques, materials, and tools of oil painting.

Name
2.Construct a variety of support structures and grounds on which paintings are created.

Name
3.Examine the historical origins and practices of painting from the personal, social and cultural perspective.

Name
4.Identify and apply environmentally safe painting practices, care of tools, equipment, and facilities, as well as disposal of mediums, solvents and paints.

Name
5.Apply basic color theory to representational and non-representational painting.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARTS1610 Drawing I

Common Course Numbering Crosswalk

Past Course Numbers
ART 260

ARTS 1710 - Introduction to Printmaking

General

Subject code	Course Number	Course Title
ARTS	1710	Introduction to Printmaking

Description
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. (2+4P)

General Education Course
Academic

Learning Outcomes

Name
1.Properly operate a printing press and safely handle materials and equipment.

Name
2.Demonstrate an adequate ability to utilize basic historical printmaking techniques that are widely relevant to contemporary, artistic expressions.

Name
3.Utilize formal elements of art and design (line, shape, value, texture, space, and color), to create prints that are formally sophisticated.

Name
4.Create imagery that contains conceptual depth, which can be interpreted by viewers with regard to social, cultural, political, geographical, and/or psychological experiences and relevance.

Common Course Numbering Crosswalk

Past Course Numbers
ART 280

ARTS 1711 - Computer-Based Illustration

General

Subject code	Course Number	Course Title
ARTS	1711	Computer-Based Illustration

Description
Introduction to the principles of computerized drawing and design. Using the basic concepts, drawing tools, and vocabulary of Adobe Illustrator. (2+4P)

General Education Course
Academic

Learning Outcomes

Name
1.Demonstrate drawing with the pen tool.

Name
2.Demonstrate the use of blending color and creating shapes.

Name
3.Create spot colors and effectively use them in a page layout.

Name
4.Demonstrate formatting and creating typography.

Name
5.Demonstrate the use of layers, effects, graphic styles, symbols, and brushes.

Name
6.Demonstrate competency in creating digital graphics using of Adobe Illustrator software.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARTS1240 Design I and ARTS1610 Drawing I

Common Course Numbering Crosswalk

Past Course Numbers
ART 160

ARTS 1712 - Digital Graphics

General

Subject code	Course Number	Course Title
ARTS	1712	Digital Graphics

Description
Importing and exporting images and text into various desktop publishing formats. Exploring imaging, drawing, and page layout applications. Introduction to typography. (2+4P)

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate competency in the use of InDesign software.

Name
2.Create appropriate visual solutions based on target marketing information.

Name
3.Demonstrate competency in the design and production of advertising and promotional materials.

Name
4.Present ideas and concepts effectively and competently.

Name
5.Visually demonstrate design solutions to be used in a portfolio.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARTS1520 Digital Media I

Common Course Numbering Crosswalk

Past Course Numbers
ART 163

ARTS 1713 - Web Page Design

General

Subject code	Course Number	Course Title
ARTS	1713	Web Page Design

Description
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. (2+4P)

General Education Course
Technical

Learning Outcomes

Name
1.Outline the structure and functionality of a typical website.

Name
2.Demonstrate design and layout skills.

Name
3.Demonstrate competency in the use of Dreamweaver software.

Name
4.Demonstrate competency in the use of photo editing software.

Name
5.Demonstrate skills learned for website functionality.

Name
6.Create an Internet compatible website.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARTS1520 Digital Media I

Common Course Numbering Crosswalk

Past Course Numbers
ART 165

ARTS 1810 - Jewelry and Small Metal Construction I

General

Subject code	Course Number	Course Title
ARTS	1810	Jewelry and Small Metal Construction I

Description
This course introduces the basic techniques, materials, and tools traditionally used in the creation of jewelry and/or small-scale sculptural objects.

General Education Course
Technical

Learning Outcomes

Name
1.Apply basic jewelry fabrication techniques (such as: piercing, cold connections, soldering, metal forming, casting and stone setting) to complete projects.

Name
2.Create design sketches of the objects prior to fabrication.

Name
3.Demonstrate knowledge of materials and safe practices for making jewelry, as well as small functional and non-traditional objects.

Name
4.Analyze projects through critiques, oral presentations, and discussions.

Common Course Numbering Crosswalk

Past Course Numbers
ART 285

ARTS 2010 - Portfolio Development

General

Subject code	Course Number	Course Title
ARTS	2010	Portfolio Development

Description
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. (2+4P)

General Education Course
Academic

Learning Outcomes

Name
1.Develop a portfolio package with visual aids, photographic documentation, resumes, bios and artist statements.

Name
2.Analyze the qualifications, procedures and portfolio requirements necessary for professional art related opportunities.

Name
3.Complete an oral presentation on a series of personal works.

Name
4.Distinguish pathways for navigating the business side of being a professional artist.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARTS1520 Digital Media I , ARTS1712 Digital Graphics and ARTS2611 Advanced Computer-Base Illustration

Common Course Numbering Crosswalk

Past Course Numbers
ART 267

ARTS 2355 - Stained Glass

General

Subject code	Course Number	Course Title
ARTS	2355	Stained Glass

Description
Instruction in the fundamental fabrication and design techniques for stained glass. Introduction to visual decision making skills, historical, and critical issues of the medium. (2+4P)

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate an understanding of the theory, principles and procedures that comprise the art and science of designing at least four (40 stained glass techniques through both written and verbal assessments, as well as, actual completed examples of each technique.

Name
2.Properly select and safely employ various glass studio tools, instruments, procedures, methods and techniques in the fabrication processes of stained glass.

Name
3.Select and apply suitable problem-solving strategies in a practical studio environment.

Name
4.Work cooperatively in a studio classroom.

Name
5.Relate historical background and significant developments of glass in general and stained glass in particular.

Name
6.Understand the chemical processes associated with various processes used in working with and manipulating glass.

Name
7.Develop critical thinking and problem solving strategies in various stained glass fabrication technics.

Name
8.Be able to critically analyze, assess and appreciate the value of glass works of every kind.

Common Course Numbering Crosswalk

Past Course Numbers
ART 286

ARTS 2410 - Black & White Photography

General

Subject code	Course Number	Course Title
ARTS	2410	Black & White Photography

Description
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. (2+2P) Crosslist: ARTS 1410.

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate competent film development and photographic printing skills.

Name
2.Demonstrate an emerging understanding of aesthetic, compositional, conceptual, and communicative tools in photography including lighting and dynamic composition techniques.

Name
3.Be able to critically analyze and discuss photographic images using photographic terminology.

Name
4.Demonstrate proper image adjustment and correction techniques, and apply proper exposure techniques.

Common Course Numbering Crosswalk

Past Course Numbers
OEPT 100

ARTS 2430 - Photographic Portraiture

General

Subject code	Course Number	Course Title
ARTS	2430	Photographic Portraiture

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate successful operation of studio lighting equipment and accurately define lighting equipment terminology .

Name
2.Illustrate the principles of photographic lighting.

Name
3.Demonstrate and apply how to use and modify natural light effectively.

Name
4.Demonstrate understanding of different approaches such as formal, informal, candid, vernacular and their cultural implications.

Name
5.Distinguish historic and contemporary cultural notions informing different types of portraits.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARTS1410 Introduction to Photography or FDMA1545 Introduction to Photography & Digital Imaging

Common Course Numbering Crosswalk

Past Course Numbers
OEPT 155

ARTS 2431 - Introduction to Graphic Design

General

Subject code	Course Number	Course Title
ARTS	2431	Introduction to Graphic Design

Description
Introduction to the principles of visual communication and digital media, letterforms, typography and identity marks. Projects produced using conventional and digital tools. (2+4P)

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate working knowledge of the graphic design software.

Name
2.Identify and apply basic design concepts for the purpose of visual communication.

Name
3.Conduct visual research and create presentations on design topics.

Name
4.Solve graphic design problems through solving fundamental communication challenges by sketching, drawing, typographic composition, use of image and color.

Common Course Numbering Crosswalk

Past Course Numbers
ART 255

ARTS 2440 - Photo Finishing & Presentation

General

Subject code	Course Number	Course Title
ARTS	2440	Photo Finishing & Presentation

Description
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. (1+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Define your target market and create a complete Personal Promotional Package.

Name
2. Produce a professional Resume Cover Letter.

Name
3. Produce a professional looking Business Card, Letterhead Mailing Labels.

Name
4. Produce a single page Promotional Piece, (and possible follow-up material.)

Name
5. Produce a PDF Formatted Portfolio (Create in Photoshop Export as PDF.)

Name
6. Produce a clean, professional looking traditional hard portfolio with 20-30 pieces.

Name
7. Present the Entire Promotional Portfolio and promo materials in a Job Interview.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1545 Introduction to Photography & Digital Imaging

Common Course Numbering Crosswalk

Past Course Numbers
OEPT 120

ARTS 2610 - Drawing II

General

Subject code	Course Number	Course Title
ARTS	2610	Drawing II

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Create drawings in wet and dry color media.

Name
2.Practice analyzing and visually translating observed subjects from realistic, referential, and/or objective form, to non-representational or abstract imagery in drawings.

Name
3.Compose fully developed drawings that include a conceptual or historical basis.

Name
4.Engage in effective written and oral critique in response to ones own art and the art of others.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARTS1610 Drawing I

Common Course Numbering Crosswalk

Past Course Numbers
ART 151

ARTS 2611 - Advanced Computer-Base Illustration

General

Subject code	Course Number	Course Title
ARTS	2611	Advanced Computer-Base Illustration

Description
Design custom graphics and create special effects with filtering, special effects on type, graphing, technical illustrations, and three-dimensional drawing using Adobe Illustrator. (2+4P)

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate competency in the use of Adobe Illustrator software.

Name
2.Create appropriate visual solutions based on target marketing information.

Name
3.Demonstrate competency in the design and production of advertising and promotional materials.

Name
4.Present ideas and concepts effectively and competently.

Name
5.Visually demonstrate design solutions to be used in a portfolio.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARTS1520 Digital Media I and ARTS1711 Computer-Based Illustration

Common Course Numbering Crosswalk

Past Course Numbers
ART 269

ARTS 2616 - Aspects of Drawing

General

Subject code	Course Number	Course Title
ARTS	2616	Aspects of Drawing

Description
Continued work in drawing with emphasis on personal creative endeavor. Outside assignments required.

General Education Course
Academic

Learning Outcomes

Name
1.Advanced skill level in the visual dynamics of line involved in the creation of drawing.

Name
2.Advanced skill level in the visual dynamics of shape involved in the creation of drawing.

Name
3.Advanced skill level in the visual dynamics of value involved in the creation of drawing.

Name
4.Advanced skill level in the visual dynamics of color involved in the creation of drawing.

Name
5.Advanced skill level in the visual dynamics in the combination of line, shape, value and color involved in the creation of drawing.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARTS1610 Drawing I and ARTS2610 Drawing II

Common Course Numbering Crosswalk

Past Course Numbers
ART 252

ARTS 2630 - Painting II

General

Subject code	Course Number	Course Title
ARTS	2630	Painting II

Description
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. (2+4P)

General Education Course
Academic

Learning Outcomes

Name
1.Produce paintings building on the skills and techniques learned in Painting I .

Name
2.Solve unique format, support, ground, over and under texturing surface challenges.

Name
3.Practice analyzing and translating observed subjects from realistic, referential, and/or objective form, to non-representational imagery.

Name
4.Create paintings that explore personal content, stylization, symbolism, narrative, and/or iconography.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARTS1610 Drawing I and ARTS1630 Painting I

Common Course Numbering Crosswalk

Past Course Numbers
ART 261

ARTS 2635 - Painting III

General

Subject code	Course Number	Course Title
ARTS	2635	Painting III

Description
Continuation of ARTS 2630.

General Education Course
Academic

Learning Outcomes

Name
1.Color mixing and color relationships.

Name
2.Create illusions of space and volume.

Name
3.The student will strengthen his or her own personal artistic style. 4. Knowledge of the proper use and maintenance of painting tools.

Name
4.Explore and learn the technique of a master painter of the past.

Name
5.Awareness of nature, eye hand response, and an imaginative or personal use of the medium.

Name
6.Awareness of the creative process, exploring unforeseen possibilities.

Name
7.An ability to work independently.

Name
8.Understanding of painting styles and arts vocabulary.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARTS1240 Design I, ARTS1610 Drawing I and ARTS1630 Painting I

Common Course Numbering Crosswalk

Past Course Numbers
ART 262

ARTS 2839 - Introduction to Sculpture

General

Subject code	Course Number	Course Title
ARTS	2839	Introduction to Sculpture

Description
Beginning sculpture students “explore space” while learning new processes and skills, including mold making, welding and woodworking.

General Education Course
Technical

Learning Outcomes

Name
1. Be able to utilize a variety of traditional materials and sculpture processes, including: mold making, metal fabrication/wood fabrication, and the creative integration of mixed media.

Name
2. Learn to differentiate between objects and installations, and be prepared to explore sculpture in upper division, topics based courses.

Common Course Numbering Crosswalk

Past Course Numbers
ART 265

ARTS 2993 - Workshop in Art Studio

General

Subject code	Course Number	Course Title
ARTS	2993	Workshop in Art Studio

Description
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. Repeatable: up to 4 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
ART 208

ARTS 2996 - Topics in Art Studio

General

Subject code	Course Number	Course Title
ARTS	2996	Topics in Art Studio

Description
Specific subjects and credits to be announced in the Schedule of Classes. Repeatable: up to 9 credits

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
ART 294

ASTR 1115G - Introduction to Astronomy (Lec+Laboratory)

General

Subject code	Course Number	Course Title
ASTR	1115G	Introduction to Astronomy (Lec+Laboratory)

Description
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 Newtons 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 reinforce concepts covered in the lecture, and may include additional components that introduce students to the night sky. Repeatable: up to 4 credits.

General Education Course
Area III, Academic

Learning Outcomes

Name
1.Students will discuss the night sky as seen from Earth, including coordinate systems, the apparent daily and yearly motions of the sun, Moon, and stars, and their resulting astronomical phenomena.

Name
2.Students will list and apply the steps of the scientific method.

Name
3.Students will describe the scale of the Solar System, Galaxy, and the Universe.

Name
4.Students will explain telescope design and how telescopes and spectra are used to extract information about Astronomical objects.

Name
5.Students will describe the formation scenarios and properties of solar system objects.

Name
6.Students will describe gravity, electromagnetism, and other physical processes that determine the appearance of the universe and its constituents.

Name
7.Students will describe methods by which planets are discovered around other stars and current results.

Name
8.Students will describe the structure, energy generation, and activity of the sun.

Name
9.Students will compare our sun to other stars and outline the evolution of stars of different masses and its end products, including black holes.

Name
10.Students will describe the structure of the Milky Way and other galaxies and galaxy clusters.

Name
11.Students will describe the origin, evolution, and expansion of the universe based on the Big Bang Theory and recent Astronomical observations.

Name
12.Students will describe conditions for life, its origins, and possible locations in the universe.

Common Course Numbering Crosswalk

Past Course Numbers
ASTR 110G

ASTR 1120G - The Planets

General

Subject code	Course Number	Course Title
ASTR	1120G	The Planets

Description
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.
Repeatable: up to 4 credits.

General Education Course
Area III, Academic

Learning Outcomes

Name
1.Students will describe the sky as seen from Earth, the apparent daily and yearly motions of the Sun, Moon, planets and stars, and resulting astronomical phenomena.

Name
2.Students will apply the process of the scientific method in an astrophysical setting.

Name
3.Students will describe the structure of the solar system and explain the development of the currently accepted model of solar system formation.

Name
4.Students will explain how telescopes and spectra are used to extract information about astronomical objects.

Name
5.Students will describe properties of minor solar system objects, such as dwarf planets, moons, asteroids, meteoroids, and comets.

Name
6.Students will compare and contrast bulk and unique properties of the Terrestrial and Jovian worlds.

Name
7.Students will describe how gravity and other physical processes determine the appearance of the solar system and its constituents.

Common Course Numbering Crosswalk

Past Course Numbers
ASTR 105G

AUTO 112 - Basic Gasoline Engines

General

Subject code	Course Number	Course Title
AUTO	112	Basic Gasoline Engines

Description
Principles of gasoline engine operation. Identification, design, function of engine components; engine disassembly and reassembly; trouble shooting, and rebuilding heads. (2+6P)

General Education Course
Technical

Learning Outcomes

Name
1. Graduates will demonstrate competence in the use of general and highly specialized tools and equipment.

Name
2. Graduates will read and comprehend technical information and materials from printed and electronic sources relevant to the diagnosis and repair of automotive systems.

Name
3. Graduates will apply technical knowledge and skills to repair, service, and maintain various types of automobiles.

AUTO 117 - Electronic Analysis and Tune-Up of Gasoline Engines

General

Subject code	Course Number	Course Title
AUTO	117	Electronic Analysis and Tune-Up of Gasoline Engines

Description
Theory and operation of ignition and emission control systems and fuel system. Use of troubleshooting equipment and diagnostic equipment.

General Education Course
Technical

Learning Outcomes

Name
1. Graduates will demonstrate competence in the use of general and highly specialized tools and equipment.

Name
2. Graduates will read and comprehend technical information and materials from printed and electronic sources relevant to the diagnosis and repair of automotive systems.

Name
3. Graduates will apply technical knowledge and skills to repair, service, and maintain various types of automobiles.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in AUTO120 Electrical Systems

AUTO 119 - Manual Transmission/Clutch

General

Subject code	Course Number	Course Title
AUTO	119	Manual Transmission/ Clutch

Description
Manual transmission, transfer cases, and clutch operating principles. Students will diagnose problems, remove and replace, disassemble, repair, and assemble units. (2+6P)

General Education Course
Technical

Learning Outcomes

Name
1. Graduates will demonstrate competence in the use of general and highly specialized tools and equipment.

Name
2. Graduates will read and comprehend technical information and materials from printed and electronic sources relevant to the diagnosis and repair of automotive systems.

Name
3. Graduates will apply technical knowledge and skills to repair, service, and maintain various types of automobiles.

AUTO 120 - Electrical Systems

General

Subject code	Course Number	Course Title
AUTO	120	Electrical Systems

Description
Troubleshooting and repair of starters, alternators, and associated circuits. Reading electrical diagrams, diagnosis and repair of electrical accessories. (2+4P)

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate the ability to gain and maintain employment.

Name
2. Explain how to maintain employment long term.

Name
3. Define automotive skills that the will use in maintaining employment.

AUTO 125 - Brakes

General

Subject code	Course Number	Course Title
AUTO	125	Brakes

Description
Theory of operation, diagnosis, repair, and maintenance of disc and drum brakes; safety and use of special tools. (2+6P)

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate an understanding of automotive technology fundamentals, including vehicle systems, components, and terminologies.

Name
2. Perform basic automotive maintenance and repair tasks for Air-Conditioning and Heating systems repair.

Name
3. Use diagnostic tools and techniques to identify and troubleshoot common automotive problems, specifically related to diagnosing automotive air-conditioning and heating.

Name
4. Demonstrate an understanding of automotive safety procedures and regulations, including using personal protective equipment and handling hazardous material.

Name
5. Apply critical thinking and problem-solving skills to diagnose and repair complex automotive issues.

Name
6. Demonstrate effective communication skills, including reading and interpreting technical manuals, communicating with customers and colleagues, and presenting technical information.

Name
7. Apply ethical and professional practices in the automotive industry, including respect for customer privacy, confidentiality, data protection, and compliance with legal and regulatory requirements.

AUTO 126 - Suspension, Steering, and Alignment

General

Subject code	Course Number	Course Title
AUTO	126	Suspension, Steering, and Alignment

Description
Types of steering systems, suspension maintenance and repair, four- wheel alignment procedures. (2+6P)

General Education Course
Technical

Learning Outcomes

Name
1. Graduates will demonstrate competence in the use of general and highly specialized tools and equipment.

Name
2. Graduates will read and comprehend technical information and materials from printed and electronic sources relevant to the diagnosis and repair of automotive systems.

Name
3. Graduates will apply technical knowledge and skills to repair, service, and maintain various types of automobiles.

AUTO 127 - Basic Automatic Transmission

General

Subject code	Course Number	Course Title
AUTO	127	Basic Automatic Transmission

Description
Theory and operation of the automatic transmission; maintenance, troubleshooting, diagnosis, and repair of components. (2+4P)

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate competence in the use of general and highly specialized tools and equipment.

Name
2.Read and comprehend technical information and materials from printed and electronic sources relevant to the diagnosis and repair of automotive systems.

Name
3.Apply technical knowledge and skills to repair, service, and maintain various types of automobiles.

AUTO 132 - Automotive Air-Conditioning and Heating Systems

General

Subject code	Course Number	Course Title
AUTO	132	Automotive Air-Conditioning and Heating Systems

Description
Theory and operation, reading schematic diagrams, troubleshooting, repair, and replacement operations performed. (2+4P)

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate an understanding of automotive technology fundamentals, including vehicle systems, components, and terminologies.

Name
2. Perform basic automotive maintenance and repair tasks for Air-Conditioning and Heating systems repair.

Name
3. Use diagnostic tools and techniques to identify and troubleshoot common automotive problems, specifically related to diagnosing automotive air-conditioning and heating.

Name
4. Demonstrate an understanding of automotive safety procedures and regulations, including using personal protective equipment and handling hazardous material.

Name
5. Apply critical thinking and problem-solving skills to diagnose and repair complex automotive issues.

Name
6. Demonstrate effective communication skills, including reading and interpreting technical manuals, communicating with customers and colleagues, and presenting technical information.

Name
7. Apply ethical and professional practices in the automotive industry, including respect for customer privacy, confidentiality, data protection, and compliance with legal and regulatory requirements.

AUTO 137 - Fuel Systems and Emission Controls

General

Subject code	Course Number	Course Title
AUTO	137	Fuel Systems and Emission Controls

Description
Covers theory and operation of fuel system and emission control. Troubleshooting, vacuum diagrams, overhaul, repair and adjustment of carburetion and fuel injection.

General Education Course
Technical

Learning Outcomes

Name
1. Graduates will demonstrate competence in the use of general and highly specialized tools and equipment.

Name
2. Graduates will read and comprehend technical information and materials from printed and electronic sources relevant to the diagnosis and repair of automotive systems.

Name
3. Graduates will apply technical knowledge and skills to repair, service, and maintain various types of automobiles.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in AUTO117 Electronic Analysis and Tune-Up of Gasoline Engines

AUTO 162 - Advanced Non-Structural Repair I

General

Subject code	Course Number	Course Title
AUTO	162	Advanced Non-Structural Repair I

Description
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. (2+4P)

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate and practice safe work procedures and habits

Name
2. Explain the basic Non- structural Analysis & Damage Repair.

Name
3. Define common Non- structural terms.

AUTO 163 - Advanced Non-Structural Repair II

General

Subject code	Course Number	Course Title
AUTO	163	Advanced Non-Structural Repair II

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in AUTO162 Advanced Non-Structural Repair I

AUTO 164 - Automotive Industry Collision Repair I

General

Subject code	Course Number	Course Title
AUTO	164	Automotive Industry Collision Repair I

Description
This advanced course is a continuation of AUTO 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.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate and practice safe work procedures and habits.

Name
2. Explain the basic AUTO INDUST REPAIR.

Name
3. Define common AUTO INDUST REPAIR terms.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in AUTO163 Advanced Non-Structural Repair II

AUTO 165 - Automotive Industry Collision Repair II

General

Subject code	Course Number	Course Title
AUTO	165	Automotive Industry Collision Repair II

Description
This advanced course is a continuation of AUTO 164 with emphasis 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. (2+4P).

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate and practice safe work procedures and habits.

Name
2. Explain the basic AUTO INDUST REPAIR.

Name
3. Define common AUTO INDUST REPAIR terms.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in AUTO164 Automotive Industry Collision Repair I

AUTO 172 - Introduction to Automotive Refinishing

General

Subject code	Course Number	Course Title
AUTO	172	Introduction to Automotive Refinishing

Description
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. (2+4P)

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate and practice safe work procedures and habits.

Name
2. Explain the basic Intro to Auto Refinishing & Intermediate Auto Refinishing.

Name
3. Define common Intro to Auto Refinishing & Intermediate Auto Refinishing terms.

AUTO 174 - Intermediate Automotive Refinishing

General

Subject code
AUTO

Course Number
174

Course Title
Intermediate Automotive Refinishing

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate and practice safe work procedures and habits.

Name
2. Explain the basic Intro to Auto Refinishing & Intermediate Auto Refinishing.

Name
3. Define common Intro to Auto Refinishing & Intermediate Auto Refinishing terms.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in AUTO172 Introduction to Automotive Refinishing

AUTO 176 - Automotive Color Adjustment & Blending

General

Subject code
AUTO

Course Number
176

Course Title
Automotive Color Adjustment & Blending

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in AUTO174 Intermediate Automotive Refinishing

AUTO 178 - Automotive Overall Refinishing

General

Subject code
AUTO

Course Number
178

Course Title
Automotive Overall Refinishing

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in AUTO176 Automotive Color Adjustment & Blending

AUTO 181 - Frame and Structural Repair

General

Subject code
AUTO

Course Number
181

Course Title
Frame and Structural Repair

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in AUTO165 Automotive Industry Collision Repair II

AUTO 182 - Structural Panel Replacement

General

Subject code	Course Number	Course Title
AUTO	182	Structural Panel Replacement

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in AUTO181 Frame and Structural Repair

AUTO 221 - Cooperative Experience I

General

Subject code	Course Number	Course Title
AUTO	221	Cooperative Experience I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate the ability to gain and maintain employment.

Name
2. Explain how to maintain employment long term

Name
3. Define automotive skills that were used to maintain employment.

AXED 1110 - Introduction to Agricultural, Extension, and Technology Education

General

Subject code	Course Number	Course Title
AXED	1110	Introduction to Agricultural, Extension, and Technology Education

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Orient student to the AXED Department and their role as students.

Name
2.Explore career opportunities (and the related skill sets needed for success) in public schools, career and technical institutions, the cooperative extension service, community, and international development, agricultural communications, agricultural industry associations and public service (e.g., NMDA and USDA).

Name
3.Develop an understanding of the self-leadership skills needed to be effective in a variety of professional and personal environments.

Name
4.Familiarize students with the aspects included within a total program in agricultural or technology education.

Name
5.Strengthen skills in oral and written communications.

Common Course Numbering Crosswalk

Past Course Numbers
AXED 100

AXED 1130 - Techniques in Agricultural Mechanization

General

Subject code	Course Number	Course Title
AXED	1130	Techniques in Agricultural Mechanization

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1.To understand basic drafting language used in orthographic and isometric drawings.

Name
2.To develop an understanding of the proper use and safety of basic hand and power tools.

Name
3.To develop skills needed to operate basic hand and power tools correctly.

Name
4.To develop an understanding of surveying methods and building layout for construction.

Name
5.To develop an adequate level of competence in workshop techniques.

Name
6.To prepare students to properly teach and demonstrate these techniques to others who may use them as a means of earning a living.

Common Course Numbering Crosswalk

Past Course Numbers
AXED 105

AXED 2110 - Metal Fabrication

General

Subject code	Course Number	Course Title
AXED	2110	Metal Fabrication

Description
Instruction and skill development in process and procedures of metal fusion, including gas and electric welding techniques, safety, and oxy-acetylene cutting and welding. Designed to improve mechanical skills needed in agriculturally related occupations in education and industry. (2+4P)

General Education Course
Technical

Learning Outcomes

Name
1.To develop students understanding and appreciation for metal fabrication, design and teaching.

Name
2.To develop in the student an adequate level of competence in shop work techniques, so that the student may be able to properly teach and demonstrate multiple metal fabrication techniques to others who may use them as a mean of earning a living.

Name
3.To develop the student's fundamental techniques in shielded metal arc welding, oxy-acetylene welding and cutting operations, metal inert gas welding (MIG), and gas tungsten-arc welding as needed in repair and construction of agricultural equipment.

Name
4.Student will understand appropriate shop management techniques and have an appreciation for mechanized agriculture.

Name
5.To assist the student in developing an understanding and comprehension of the fundamental principles that apply to the area of basic shop work included in this course; such as proper selection of electrodes, oxy-acetylene filler rods, welding processes best suited for given welding conditions, the proper tool for the job, etc.

Name
6.To develop in the student comprehension of safety practices that apply to the areas of basic shop work, tools, and equipment required in the course.

Common Course Numbering Crosswalk

Past Course Numbers
AXED 205

AXED 2130 - Early Field-Based Experience

General

Subject code	Course Number	Course Title
AXED	2130	Early Field-Based Experience

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Identify successful characteristics, tips and strategies that an agricultural education professional may use as part of their program.

Name
2.Identify key components of an agricultural education program

Name
3.Actively observe a local agricultural education program.

Name
4.Identify ways that your agency program networks and interacts with clientele and community

Common Course Numbering Crosswalk

Past Course Numbers
AXED 230

AXED 2996 - Topics in Agricultural and Extension Education

General

Subject code	Course Number	Course Title
AXED	2996	Topics in Agricultural and Extension Education

Description
Specific subjects and credits to be announced in the Schedule of Classes. Repeatable: Maximum of 4 credits per semester. No more than 6 credits toward degree.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
AXED 200

BCIS 1110 - Fundamentals of Information Literacy and Systems

General

Subject code	Course Number	Course Title
BCIS	1110	Fundamentals of Information Literacy and Systems

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Describe the social impact of information literacy and systems in relation to commerce, education, and personal activities.

Name
2.Explain how to use the information resources legally, safely, and responsibly in relation to ethical, security, and privacy issues.

Name
3.Evaluate bias, accuracy and relevance of information and its sources.

Name
4. Use productivity tools for communications, data analysis, information management and decision-making.

Name
5. Describe and use current information systems and technologies.

Common Course Numbering Crosswalk

Past Course Numbers
BCIS 110/C S 110

BCIS 1160 - Windows

General

Subject code	Course Number	Course Title
BCIS	1160	Windows

Description
This course prepares students to develop the skills needed to deploy and manage Windows Students will learn how to manage and troubleshoot Windows 10 devices in a secure network environment. Students will also learn to run multiple operating systems using client Hyper-V. Microsoft Intune will be utilized to teach students to manage Windows 10 mobile and desktop devices in a cloud-based environment. Out-of-class computer work is required.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate how to install Windows.

Name
2. Execute System Utilities.

Name
3. Explain how to manage disks and file systems.

Name
4. Recount the features of user management.

Name
5. Describe Windows security features.

Name
6. Identify the features of user productivity tools and application support.

Name
7. Highlight the steps to complete performance tuning and system recovery.

Name
8. Outline in detail how Microsoft Intune Device Management is utilized.

Name
9. Summarize how to run multiple operating systems inside a virtual machine using Client Hyper-V

Name
10. Summarize Enterprise Computing.

Name
11. Illustrate Remote Access and Client Support processes.

BCIS 1220 - Introduction to MS Word

General

Subject code	Course Number	Course Title
BCIS	1220	Introduction to MS Word

Description
This course introduces MS Word software. Basic word processing techniques and applications will be covered. Students will create, revise, store, share and retrieve documents. Students will learn various formatting techniques, use of tables, use of references tools.

General Education Course
Technical

Learning Outcomes

Name
1. Manage Documents: Navigate within documents; format documents; save and share documents; and inspect documents for issues.

Name
2. Insert and Format Text, Paragraphs, and Sections: Insert text and paragraphs; format text and paragraphs; create and configure document settings.

Name
3. Manage tables and Lists: Create tables; modify tables; create and modify lists.

Name
4. Create and Manage References: Create and manage reference elements; create and manage reference tabs.

Name
5. Insert and Format Graphic Elements: Insert illustrations/text boxes; format illustrations and text boxes; add text to graphic elements; modify graphic elements.

Name
6. Manage Document Collaboration: Add and manage comments; manage change tracking.

BCIS 1230 - Introduction to MS PowerPoint

General

Subject code	Course Number	Course Title
BCIS	1230	Introduction to MS PowerPoint

Description
Introduction to the electronic presentation, specifically how to use, design and edit presentation graphics for use in a variety of personal and business applications. Students will learn how to create and work with design templates, auto layouts, and background slides. Also covered are how to add tables, charts, clip art, pictures, video, sound and animation effects.

General Education Course
Technical

Learning Outcomes

Name
1. Create, edit, format, and save PowerPoint presentations.

Name
2. Create and change templates.

Name
3. Create, apply, and customize Master slides.

Name
4. Create, apply, and customize presentations themes.

Name
5. Create, apply, and customize styles presentations.

BCIS 2130 - Web Design

General

Subject code	Course Number	Course Title
BCIS	2130	Web Design

Description
Not Available

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

BCIS 2212 - MS Access

General

Subject code	Course Number	Course Title
BCIS	2212	MS Access

Description
This course provides an in-depth study of Microsoft Access® database software with a hands-on approach.

BCIS 2215 - MS EXCEL

General

Subject code	Course Number	Course Title
BCIS	2215	MS EXCEL

Description
Microsoft Excel® 2010 is intended to provide comprehensive instruction in the major features of this spreadsheet application.

General Education Course
Technical

Learning Outcomes

Name
1. Explore programs that comprise Microsoft Office 2010.

Name
2. Create MS Excel spreadsheets.

Name
3. Format workbooks.

Name
4. Apply formulas and functions.

Name
5. Enhance workbooks with charts and graphics.

Name
6. Apply concepts related to PivotTables and Pivot Charts when working with tables.

Name
7. Use advance functions and conditional formatting.

BCIS2221 - MS Word II

General

Subject code	Catalog Code	Course Number	Course Title
BCIS	BCIS 2221	2221	MS Word II

Description
This course provides an in-depth study of MS Word software. Students will learn how to create professional business documents, templates, customize themes, mail merge, and reports with citations and references.

Learning Outcomes

Name
1. Create, edit, format, and save Word documents.

Name
2. Create reports using chosen reference style which includes citations and bibliography.

Name
3. Create a multiple page report with tables, footnotes, and endnotes.

Name
4. Create a professional newsletter, which includes inserting section breaks, formatting columns, inserting symbols, and distinguishing between online and inline objects.

Name
5. Create and change templates.

Name
6. Create, apply, and customize document themes.

Name
7. Create, apply, and customize styles.

Name
8. Create and edit documents using mail merge with data sources and main documents.

Prerequisites/Corequisites

No Requirements

BCT 101 - Introduction to Construction I

General

Subject code	Course Number	Course Title
BCT	101	Introduction to Construction I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

BCT 102 - Introduction to Construction II

General

Subject code	Course Number	Course Title
BCT	102	Introduction to Construction II

Description
Introduction to power and hand tools, blueprints, and basic rigging hardware and techniques. May be repeated up to 2 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

BCT 103 - Introduction to Construction Laboratory

General

Subject code	Course Number	Course Title
BCT	103	Introduction to Construction Laboratory

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

BCT 118 - Math for Building Trades

General

Subject code	Course Number	Course Title
BCT	118	Math for Building Trades

Description
Geometry, algebra, arithmetic, and basic trigonometry pertaining to mathematical applications in the building trades field. Same as OEET 118, DRFT 118.

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate calculation of measurements as related to field drawings, materials and procedures.

Name
2.Explain overage percentages and equations of materials and procedures.

Name
3.Define mathematical equations as related to on-site projects.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CCDM103 N Pre-Algebra

BCT 200 - Building Trades II

General

Subject code	Course Number	Course Title
BCT	200	Building Trades II

Description
Continuation of BCT 100: roofing; exterior and interior finish; masonry; door, window, and cabinet installation. (2+12P)

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate proper skill set for each phase of construction.

Name
2. Explain safety requirements and need for accountability with tools and equipment.

Name
3. Define common construction terms as related to residence construction.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in BCT100 Building Trades I

BFIN 1210 - Principles of Banking

General

Subject code	Course Number	Course Title
BFIN	1210	Principles of Banking

Description
Survey of banking in today's economy. Topics include language, documents and processes of banking from the fundamentals of negotiable instruments to contemporary issues.

General Education Course
Academic

Learning Outcomes

Name
1.Define and explain the importance of full-service commercial banking.

Name
2.Explain the development of commercial banking in the United States and the federal legislation that shaped its development.

Name
3.Explain the impacts of the banking industry on the economy, the community, and individuals.

Name
4.Describe the major functions of commercial banks and their interrelationships.

Name
5.Explain the functions and importance of the Federal Reserve System.

Name
6.Compare and contrast time and demand deposits.

Name
7.Define negotiable instrument and describe the features that make an instrument negotiable.

Name
8.Explain check paying procedures and regulations.

Name
9.Discuss the importance, necessity and process of bank investments.

Name
10.Describe the role of the banks board of directors in establishing and overseeing lending policy and identifying basic loan categories.

Name
11.Explain the concepts of liquidity and its importance to the banking industry.

Common Course Numbering Crosswalk

Past Course Numbers
BMGT 112

BFIN 2110 - Introduction to Finance

General

Subject code	Course Number	Course Title
BFIN	2110	Introduction to Finance

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Explain the time value of money and its application in decision-making, including calculating present and future values of single payment and series of payments.

Name
2.Identify the major sources of external long-term financing for corporations.

Name
3.Explain risk-return tradeoff as it relates to diversification.

Name
4.Differentiate the role of finance from other related disciplines such as accounting and economics.

Name
5.Demonstrate knowledge of capital markets and securities (debt and equity).

Name
6.Describe basic types of financial ratios and their uses.

Name
7.Demonstrate the ability to prepare cash flows and make qualitative judgments on the relevance of the changes from one time frame to another.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ACCT2110 Principles of Accounting I (Financial), ECON1110G Survey of Economics or ECON2110G Macroeconomic Principles

Common Course Numbering Crosswalk

Past Course Numbers
FIN 206/FIN 210

BFIN 2140 - Personal Finance

General

Subject code	Course Number	Course Title
BFIN	2140	Personal Finance

Description
Introduces tools and techniques of personal financial management. Includes budgeting, credit, insurance, personal income tax, and retirement/estate financial planning.

General Education Course
Academic

Learning Outcomes

Name
1. Explain the importance and relevance of personal financial planning.

Name
2. Discuss personal financial goals; identify strategies for achieving personal financial goals; and develop a personal budget.

Name
3. Analyze the advantages and disadvantages of credit; determine the cost of credit; and explain how to protect credit and manage debt.

Name
4. Identify strategies for consumer purchasing and evaluate purchase options.

Name
5. Determine insurance needs and distinguish between the different types of policies and companies.

Name
6. Discuss personal income tax basics and select optimal tax strategies for financial planning.

Name
7. Describe retirement planning and its importance.

BIOL 1120G - Human Biology

General

Subject code	Course Number	Course Title
BIOL	1120G	Human Biology

Description
This course is an introduction to modern biological concepts with an emphasis on the relevance to humans and their relationships with the environment.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Explain that biology is a scientific discipline based on observations and experimentations.

Name
2. Explain the process of scientific inquiry and explain how scientific knowledge is discovered and validated.

Name
3. Describe the chemical basis of living organisms and how biomolecules contribute to the structure and function of cells.

Name
4. Develop a basic familiarity with cells and cell organelles.

Name
5. Describe the structure and function of DNA as well as how DNA is used in the production of proteins.

Name
6. Describe the basic principles of genetics and heredity leading to human diversity.

Name
7. Identify the major features of the systems in the human body, and understand the anatomy and physiology of them.

Name
8. Describe the roles of the organ systems in maintaining homeostasis.

Name
9. Explain the principles of evolution by means of natural selection explaining the diversity of life.

Name
10. Describe how science and technology have impacted life in particular to society and the environment (e.g. medicine, forensic science, agriculture, ecology, sustainability).

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): BIOL1120L Human Biology Laboratory

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 101G

BIOL 1120L - Human Biology Laboratory

General

Subject code	Course Number	Course Title
BIOL	1120L	Human Biology Laboratory

Description
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.

General Education Course
Area III, Academic

Learning Outcomes

Name
1.Understand general principles of cell structure and function.

Name
2.Understand general principles of genetics.

Name
3.Understand basic human anatomy and physiology.

Name
4.Communicate scientific information effectively.

Name
5.Demonstrate an understanding of the scientific method.

Name
6.Knowledge of appropriate laboratory skills

Name
7.Apply quantitative reasoning and scientific thinking to real world problems.

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 101GL

BIOL 1130G - Introductory Anatomy & Physiology (non majors)

General

Subject code	Course Number	Course Title
BIOL	1130G	Introductory Anatomy & Physiology (non majors)

Description
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. (3+3P). Repeatable: up to 4 credits.

General Education Course
Area III, Academic

Learning Outcomes

Name
1.Define and explain anatomy and physiology.

Name
2.Use anatomic directional, regional, and sectional terminology related to the human body.

Name
3.Explain and describe the basic chemical principles of the human body including the structure and function of carbohydrates, lipids, proteins and nucleic acids.

Name
4.Develop a basic familiarity with cells and cell organelles that include cell division, DNA replication, and protein synthesis.

Name
5.Describe the structure and function of the major tissues in the human body.

Name
6.Identify and describe the basic anatomical features of the integumentary, skeletal, muscle, nervous, endocrine, cardiovascular, lymphatic, digestive, respiratory, urinary and reproductive systems.

Name
7.Describe the basic physiological roles of the integumentary, skeletal, muscle, nervous, endocrine, cardiovascular, lymphatic, digestive, respiratory, urinary and reproductive systems.

Name
8.Apply and describe the principles of homeostasis in the human body.

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 154

BIOL 1190G - Contemporary Problems in Biology

General

Subject code
BIOL

Course Number
1190G

Course Title
Contemporary Problems in Biology

Description
Fundamental concepts of biology will be presented using examples from relevant problems in ecology, medicine and genetics. For nonscience majors only. (3+3P)

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Identify the unity and diversity of living things.

Name
2. Identify the structure and function of cells an biological molecules.

Name
3. Recognize and demonstrate patterns of inheritance.

Name
4. Describe mechanisms of evolution.

Name
5. Describe the human body systems including immune response.

Name
6. Discuss population dynamics and ecological systems.

Name
7. Describe the process of scientific inquiry, solve problems scientifically, and communicate on a scientific level.

Name
8. Apply quantitative analysis and scientific thinking to scientific and real-world problems.

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 110G

BIOL 1996 - Topics in Biology

General

Subject code
BIOL

Course Number
1996

Course Title
Topics in Biology

Description
Introductory level coverage of biological topics.
Repeatable: up to 9 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 150

BIOL 2110G - Principles of Biology: Cellular and Molecular Biology

General

Subject code
BIOL

Course Number
2110G

Course Title
Principles of Biology: Cellular and Molecular Biology

Description
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.
Repeatable: up to 3 credits.

General Education Course
Area III, Academic

Learning Outcomes

Name
1.Apply the scientific method to develop and evaluate hypotheses and propose an experiment to test a scientific hypothesis related to cell biology and molecular biology.

Name
2.Describe the distinguishing characteristics of various biological molecules (water, carbohydrates, lipids, proteins, and nucleic acids). (HED Area 3, Competency 3).

Name
3.Compare and contrast the basic features of cells and how prokaryotic cells differ from eukaryotic cells. (HED Area 3, Competency 3).

Name
4.Understand how organisms maintain homeostasis in a dynamic environment.

Name
5.Describe how biological molecules are acquired and how they are subsequently used to meet the metabolic needs of organisms. (HED Area 3, Competency 3).

Name
6.Describe membrane structure and function.

Name
7.Describe and analyze the nature of bioenergetic transformations and metabolism within the cell.

Name
8.Describe the processes of cellular respiration and photosynthesis.

Name
9.Analyze with specific detail the processes of DNA replication, transcription, and translation.

Name
10.Analyze with specific detail the types, mechanisms, and regulation of cellular division.

Name
11.Assess important applications of cell and molecular biology to energy use, medicine, and other day-to-day processes. (HED Area 3, Competency 1,3,4,5).

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** BIOL2110L Principles of Biology: Cellular and Molecular Laboratory
- **Prerequisite(s)/Corequisite(s): A grade of C or better in** MATH1215 Intermediate Algebraor higher, and a C or better in CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors, CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors or CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors)

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 211G

BIOL 2110L - Principles of Biology: Cellular and Molecular Laboratory

General

Subject code	Course Number	Course Title
BIOL	2110L	Principles of Biology: Cellular and Molecular Laboratory

Description
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.
Repeatable: up to 1 credit.

General Education Course
Area III, Academic

Learning Outcomes

Name
1.Describe and apply the scientific method to solve problems in biological context.

Name
2.Demonstrate knowledge of laboratory safety skills and procedures.

Name
3.Practice principles of scientific method while conducting laboratory activities and experiments.

Name
4.Perform laboratory activities using relevant laboratory equipment, chemical reagents, and supplies to observe biological specimens, to measure variables, and to design and conduct experiments.

Name
5.Operate light microscopes, prepare wet mount slides, and use stains.

Name
6.Exhibit ability to use pipettes and other volumetric measuring devices, chemical glassware, balances, pH meters or test papers, spectrophotometers, and separation techniques, such as chromatography and/or electrophoresis to perform activities relevant to other course competencies.

Name
7.Analyze and report data generated during laboratory activities and experiments.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** BIOL2110G Principles of Biology: Cellular and Molecular Biology
- **Prerequisite(s)/Corequisite(s): A grade of C or better in** MATH1215 Intermediate Algebra or higher, and a C or better in CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors, CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors or CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors)

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 211GL

BIOL 2210C - Human Anatomy and Physiology I Lecture & Laboratory

General

Subject code	Course Number	Course Title
BIOL	2210C	Human Anatomy and Physiology I Lecture & Laboratory

Description
Combined BIOL 2210 and BIOL 2210L.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. The lab portion is the first in a series designed to introduce laboratory practices and techniques for human anatomy and physiology, from the basic cell structure through the organ system level; specifically, the integumentary, skeletal, muscle, and nervous systems.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Describe and apply anatomical terminology.

Name
2. Describe multi cellular organization.

Name
3. Distinguish and describe major tissue types.

Name
4. Describe the structure and function of the integumentary system.

Name
5. Describe the structure and function of the skeletal system.

Name
6. Describe the structure and function of the muscular system.

Name
7. Describe the structure and function of the nervous system.

Name
8. Describe the structure and function of the special senses.

Name
9. Define homeostasis and describe specific examples for the integumentary, skeletal, muscular, and nervous systems. 10. Apply the scientific method correctly.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors) or CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 225

BIOL 2221 - Human Physiology

General

Subject code	Course Number	Course Title
BIOL	2221	Human Physiology

Description
Human physiology is the science of the mechanical, physical, and biochemical functions of humans, their organs, and the cells of which they are composed. The study of physiology dates back to the time of Hippocrates (the father of medicine) and has seen major advances since the implementation of the scientific method and experimental approaches to probe function at the levels of genes to organ systems. This course is designed to introduce students to fundamental mechanisms by which humans function and to integrate and apply this information to solve case studies. Original scientific articles will be incorporated into lectures and homework assignments to discuss how experimentation is used to test the function of organ systems, organs, cells, and molecules that carry out chemical and physical functions in the human body.

General Education Course
Academic

Learning Outcomes

Name
1.Understand the central physiological principle of homeostasis.

Name
2.Be able to explain why concentration gradients are essential to maintain homeostasis.

Name
3.Understand the regulation of homeostasis by neuronal / endocrine chemical messengers.

Name
4.Understand that changes in bodily function occur throughout the entire life span of the human animal.

Name
5.Incorporate the importance of evolutionary biology to your understanding of human disease.

Name
6.Teach a physiological concept to your classmates.

Name
7.Design experiments to test physiological concepts.

Name
8.Put in plain words how the laws of thermodynamics can explain human disease.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in BIOL2110G Principles of Biology: Cellular and Molecular Biology and BIOL2110L Principles of Biology: Cellular and Molecular Laboratory and CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors) or CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 254

BIOL 2225C - Human Anatomy and Physiology II Lecture and Laboratory

General

Subject code	Course Number	Course Title
BIOL	2225C	Human Anatomy and Physiology II Lecture and Laboratory

Description
Combined BIOL 2225 and BIOL 2225L 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. The lab portion is the second in a series designed to introduce laboratory practices and techniques for human anatomy and physiology, from the basic cell structure through the organ system level; specifically the endocrine, cardiovascular, lymphatic, respiratory, urinary, and reproductive systems.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Identify and describe the major anatomical features of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems.

Name
2. Analyze the physiological roles of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems in maintaining homeostasis in the human body.

Name
3. Explain how fluid and electrolyte balance is maintained in the human body.

Name
4. Compare and contrast the anatomy and physiology of male and female reproductive systems.

Name
5. Describe pregnancy from conception to parturition including human growth and development from zygote to newborn.

Name
6. Explain heredity and genetic control.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in BIOL2210C Human Anatomy and Physiology I Lecture & Laboratory and CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors) or CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 226

BIOL 2310 - Microbiology

General

Subject code	Course Number	Course Title
BIOL	2310	Microbiology

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Describe and compare the structure and function of prokaryotic and eukaryotic cells.

Name
2.Describe and compare the techniques used for staining of and microscopic observation of bacteria including morphology.

Name
3.Describe the nutritional requirements for bacterial growth and the impact of environmental factors on bacterial growth (temperature, pH, oxygen, etc.).

Name
4.Describe and compare the mechanisms of aerobic respiration, anaerobic respiration, and fermentative metabolism.

Name
5.Describe the mechanism of bacterial growth by binary fission, and laboratory methods used for observing and measuring bacterial growth.

Name
6.Describe the mechanisms of bacterial DNA replication, RNA transcription, and translation, and compare and contrast with eukaryotic cells.

Name
7.Describe the structure and replication strategies of viruses.

Name
8.Describe and contrast mechanisms of innate nonspecific immunity and adaptive specific immunity.

Name
9.Describe immune hypersensitivity reactions, autoimmune diseases, and immunodeficiency diseases.

Name
10.Differentiate between host microbe relationships, mechanisms of microbial pathogenesis, differentiate between communicable and noncommunicable diseases and describe mechanisms of direct and indirect transmission of communicable diseases.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** BIOL2310L Microbiology Laboratory
- **Prerequisite(s):** A grade of C or better in CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors), CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors or CHEM1225G General Chemistry II Lecture and Laboratory for STEM Majors

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 221

BIOL 2310L - Microbiology Laboratory

General

Subject code	Course Number	Course Title
BIOL	2310L	Microbiology Laboratory

Description
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. (3P)

General Education Course
Academic

Learning Outcomes

Name
1.Demonstrate skills of microscopy.

Name
2.Demonstrate skills of bacterial staining.

Name
3.Demonstrate aseptic technique for inoculation of bacterial growth media.

Name
4.Interpret results from selective and differential media.

Name
5.Demonstrate appropriate use of diagnostic reagents.

Name
6.Interpret results of diagnostic assays.

Name
7.Identify unknown bacterial species through the use of a dichotomous key, inoculation and interpretation of laboratory assays, and application of the scientific method.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): BIOL2310 Microbiology

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 221 L

BIOL 2320 - Public Health Microbiology

General

Subject code	Course Number	Course Title
BIOL	2320	Public Health Microbiology

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Identify key physical features of various infectious agents and describe their structure and function in the pathogen.

Name
2.Describe the microbiological, serological, biochemical and genetic tests that are used to identify infectious agents in a laboratory setting and be able to interpret test results in order to identify the pathogen.

Name
3.Explain how structural and metabolic differences between infectious agents and human host can be exploited for chemotherapy.

Name
4.Explain the observed effect of a particular environmental change on the growth of a given microorganism, and the relationship between bacterial growth patterns and selected foodborne illnesses.

Name
5.Describe several mechanisms by which pathogens generate genetic diversity and the role genetic diversity plays in resistance to therapy and treatment failure.

Name
6.Explain the role of innate, and adaptive immunity in host defense.

Name
7.Describe general virulence strategies used by variety of pathogens, and different types of vaccines along with recommendations for vaccinations of specific populations.

Name
8.Demonstrate understanding of signs and symptoms of selected diseases, and be able to relate disease agents with environmental reservoirs and transmission.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in BIOL2110G Principles of Biology: Cellular and Molecular Biology and BIOL2110L Principles of Biology: Cellular and Molecular Laboratory

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 219

BIOL 2505 - Pathophysiology

General

Subject code	Course Number	Course Title
BIOL	2505	Pathophysiology

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.To describe the general concepts of disease processes and factors associated with disease causation.

Name
2.To identify the function of basic cellular structures, determining the process of cellular malfunctions.

Name
3.To describe the response of the body to injury and immunologic challenge.

Name
4.To discuss the etiology, pathogenesis, and treatment modalities of frequently occurring diseases.

Prerequisites/Corequisites

Free Form Requirements

- **Prerequisite(s)/Corequisite(s):** A grade of C or better in BIOL2225C Human Anatomy and Physiology II Lecture and Laboratory
- '**Prerequisite(s):** A grade of C or better in BIOL2210C Human Anatomy and Physiology I Lecture & Laboratory

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 227

BIOL 2511 - Pathophysiology I

General

Subject code	Course Number	Course Title
BIOL	2511	Pathophysiology I

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in BIOL2210C Human Anatomy and Physiology I Lecture & Laboratory and BIOL2225C Human Anatomy and Physiology II Lecture and Laboratory

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 262

BIOL 2512 - Pathophysiology II

General

Subject code	Course Number	Course Title
BIOL	2512	Pathophysiology II

Description
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. Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. The different types of sensory modalities; the different dysfunctions of the general and special senses; the different pain theories discussed in class; the various aspects of the neuroanatomy and neuromodulation of pain; the various clinical descriptions of pain; the various aspects of temperature regulation; components of the pathogenesis of fever; the various disorders of temperature regulation; the various aspects of sleep disorders; the various components of visual dysfunction; and the various aspects of auditory, gustatory, and olfactory dysfunction.

Name
2. The various alterations in cognitive systems; the various alterations in arousal; the outcomes of alterations in arousal; the various alterations in awareness; the various seizure disorders; the various data processing deficits; various alterations in cerebral hemodynamics; and alterations in neuromotor function.

Name
3. The various disorders of the central and peripheral nervous systems; and the various disorders of the neuromuscular junction.

Name
4. The components of normal blood; the process/stages of hematopoiesis; the various normal RBC laboratory values; the components and functions of the lymphatic system; the various types of imbalances of erythropoiesis; the various types of anemias and their causes; the various types of polycythemia and their causes; the processes related to hemostasis; the various alterations of white blood cells and their causes; and the various alterations of lymphoid and hemostatic function.

Name
5. The various diseases of the veins; the various diseases of the arteries; the various aspects of atherosclerosis; features related to the pathogenesis and consequences of coronary artery disease; the disorders of the heart wall and their consequences; the various aspects of valvular dysfunction; aspects of the pathogenesis and manifestations of rheumatic disease; the causes, pathogenesis, and manifestations of infective endocarditis; the causes, manifestations, and pathophysiology of heart failure; and the various types of shock.

Name
6. The various signs and symptoms of pulmonary disease; the various conditions caused by pulmonary disease/injury; the various disorders of the chest wall and pleura; and the causes, manifestations, and pathophysiology of selected pulmonary disorders.

Name
7. The features and consequences of upper and lower urinary tract obstruction; the various types of urinary tract infection; the causes, pathogenesis, and clinical manifestations of glomerulonephritis; the various features of nephrotic and nephritic syndrome; and the various features (etiology, pathophysiology, and clinical manifestations) of both acute kidney injury and chronic kidney disease.

Name
8. The various clinical manifestations of gastrointestinal dysfunction; the various aspects (etiology, pathophysiology, and clinical manifestations) of disorders of motility; the causes, manifestations, and pathophysiology of gastritis; features related to the causes, manifestations, and pathophysiology of peptic ulcer disease; features related to the etiology, pathogenesis and pathophysiology of selected malabsorption syndromes, inflammatory bowel diseases, diverticular disease of the colon, appendicitis, and irritable bowel syndrome; the various types of vascular insufficiency; the various disorders of nutrition and their causes and clinical manifestations; and the various disorders of the accessory organs of digestion.

Name
9. The various features associated with alterations of sexual maturity (delayed puberty and precocious puberty); features related to the etiology, pathogenesis, and pathophysiology of the various disorders of the male reproductive system, including disorders of the urethra, disorders of the penis, disorders of the scrotum, disorders of the testes, disorders of the epididymis, disorders of the prostate gland, and disorders of the male breast; features related to the etiology, pathogenesis, and pathophysiology of male sexual dysfunction; features associated with abnormalities of reproductive tract development; the various hormonal and menstrual alterations and their causes and clinical manifestations; the various conditions related to infection, inflammation, and pelvic organ prolapse (uterine prolapse, cystocele, rectocele, and enterocele); conditions involving benign growths and cancer (endometriosis, cervical cancer, vaginal cancer, vulvar cancer, endometrial cancer, uterine sarcoma, and ovarian cancer); features related to the etiology, pathogenesis, and pathophysiology of female sexual dysfunction (disorders of desire, vaginismus, anorgasmia, and dyspareunia); features related to infertility; and features related to the etiology, pathogenesis, and pathophysiology of breast cancer.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in BIOL2210C Human Anatomy and Physiology I Lecture & Laboratory, BIOL2225C Human Anatomy and Physiology II Lecture and Laboratory and BIOL2511 Pathophysiology I

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 263

BIOL 2610G - Principles of Biology: Biodiversity, Ecology, and Evolution

General

Subject code	Course Number	Course Title
BIOL	2610G	Principles of Biology: Biodiversity, Ecology, and Evolution

Description
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.

General Education Course
Area III, Academic

Learning Outcomes

Name
1.Understand the scientific method and apply it to biological topics of genetics, evolution, ecology, and biodiversity.

Name
2.Apply quantitative reasoning and scientific thinking to real world problems.

Name
3.Identify and describe the basic principles of evolution.

Name
4.Analyze the relationships between the genetics of populations and evolution.

Name
5.Analyze the processes of speciation.

Name
6.Describe how the hierarchical classification scheme is used to categorize organisms.

Name
7.Describe how DNA research has modernized bio systematics.

Name
8.Compare and contrast the general characteristics of each of the living domains and kingdoms.

Name
9.Relate the structure of organisms to the way they function.

Name
10.Explain how the life histories of organisms are adapted for different environments.

Name
11.Relate the complexity of behavior to the overall complexity of an organism.

Name
12.Describe the ecological roles played by organisms in each kingdom.

Name
13.Compare basic ecological principles at the population and community levels of organization.

Name
14.Describe and compare energy relationships and the cycling of materials in ecosystems.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** BIOL2610L Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory
- **Prerequisite(s)/Corequisite(s):** MATH1215 Intermediate Algebra or higher, or a Math Placement Exam score adequate to enroll in higher MATH

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 111G

BIOL 2610L - Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory

General

Subject code	Course Number	Course Title
BIOL	2610L	Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory

Description
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.

General Education Course
Area III, Academic

Learning Outcomes

Name
1.Describe and apply the scientific method to generate testable hypotheses in evolution and ecology.

Name
2.Design and conduct laboratory experiments using relevant laboratory equipment and methods.

Name
3.Analyze and report data generated during laboratory activities and experiments.

Name
4.Communicate scientific results from experiments in evolution, ecology, and biodiversity.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** BIOL2610G Principles of Biology: Biodiversity, Ecology, and Evolution
- **Prerequisite(s)/Corequisite(s):** MATH1215 Intermediate Algebraor higher, or a Math Placement Exam score adequate to enroll in higher MATH

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 111GL

BIOL 2996 - Topics in Biology

General

Subject code	Course Number	Course Title
BIOL	2996	Topics in Biology

Description
Specific subjects to be announced in the Schedule of Classes. Repeatable: for a maximum of 6 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BIOL 250

BLAW 2110 - Business Law I

General

Subject code	Course Number	Course Title
BLAW	2110	Business Law I

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Describe the sources of law.

Name
2.Describe and explain dispute resolution and the court systems in the United States.

Name
3.Describe the concepts of negligence, intentional torts and strict liability.

Name
4.Describe and apply the essential aspects of contracts from creation, performance, breach and remedies, including basic contract law from Article 2 of the Uniform Commercial Code.

Name
5.Explain the concept of ethics.

Common Course Numbering Crosswalk

Past Course Numbers
BLAW 230/BMGT 231

BLED 1110 - Introduction with Internship in Bilingual Education/ESL

General

Subject code	Course Number	Course Title
BLED	1110	Introduction with Internship in Bilingual Education/ESL

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Complete 24 hours field observations in a classroom.

Name
2. Articulate the attributes of an education professional entering the field.

Name
3. Construct an individualized map to teacher licensure in the State of New Mexico.

Name
4. Differentiate and summarize the major educational philosophies and historical events that have influenced the progression of educational practice.

Common Course Numbering Crosswalk

Past Course Numbers
EDUC 103

BLED 2110 - Introduction to Bilingual and ESL Education

General

Subject code	Course Number	Course Title
BLED	2110	Introduction to Bilingual and ESL Education

Description
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.
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Develops awareness in the learner of the value of cultural diversity.

Name
2. Prepares and assists students to interact successfully in cross cultural settings.

Name
3. Recognizes and accepts different patterns of child development within and between cultures in order to formulate realistic instructional strategies.

Name
4. Recognizes the similarities and differences between mainstream American and other cultures and the potential conflicts and opportunities they may create for students.

Name
5. Demonstrates knowledge of the effects of culture and socio-economic variables in learning styles.

Name
6. Demonstrates knowledge of the basic nature of language, language acquisition, language variation, language change, and the relation of language to society and culture.

Name
7. Demonstrates knowledge of the nature of bilingualism and the process of becoming bilingual.

Name
8. Demonstrates knowledge of the historical, legal, theoretical, and sociological foundations of programs of instruction for second language learners.

Name
9. Demonstrates knowledge of theories of first and second language acquisition.

Name
10. Utilizes teaching methods appropriate to various age and language groups.

Common Course Numbering Crosswalk

Past Course Numbers
EDUC 204

BMGT 225 - Introduction to Commercial Lending

General

Subject code	Course Number	Course Title
BMGT	225	Introduction to Commercial Lending

Description
Commercial lending overview, the lending process, portfolio management, and regulation and business development.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in BFIN1210 Principles of Banking

BMGT 250 - Diversity in the Workplace

General

Subject code	Course Number	Course Title
BMGT	250	Diversity in the Workplace

Description
Concepts of culture, diversity, prejudice, and discrimination within the domestic workforce/society.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in BUSA1110 Introduction to Business

BMGT 285 - Introduction to Manufacturing Operations

General

Subject code	Course Number	Course Title
BMGT	285	Introduction to Manufacturing Operations

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in BUSA1110 Introduction to Business and MGMT2110 Principles of Management

BMGT 286 - Introduction to Logistics

General

Subject code	Course Number	Course Title
BMGT	286	Introduction to Logistics

Description
Overview on the planning, organizing, and controlling of transportation, inventory maintenance, order processing, purchasing, warehousing, materials, handling, packaging, customer service standards, and product scheduling.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

BMGT 287 - Introduction to Export/Import

General

Subject code	Course Number	Course Title
BMGT	287	Introduction to Export/ Import

Description
Procedures and documentation for exporting and importing products. Emphasis on NAFTA regulations and other U.S. border operations crossings.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in BUSA1110 Introduction to Business

BUSA 1110 - Introduction to Business

General

Subject code	Course Number	Course Title
BUSA	1110	Introduction to Business

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Explain how business and entrepreneurship affect the quality of life and the world around us.

Name
2.Explain the characteristics of the different forms of business ownership.

Name
3.Perform basic stakeholder analysis concerning accountability, ethics and social responsibility of business.

Name
4.Demonstrate knowledge of the various dimensions of the business environment including political and legal, socio-cultural, environmental, diversity, economic, technological, and global.

Name
5.Describe the purpose and functions of finance, operations, marketing, management, accounting, and information systems.

Name
6.Demonstrate basic skills such as use of common business terminology, information search skills, presentation and writing skills, and team skills.

Name
7.Describe the purpose and content of a business plan.

Common Course Numbering Crosswalk

Past Course Numbers
BMGT 110

BUSA 1115 - Business English I

General

Subject code	Course Number	Course Title
BUSA	1115	Business English I

Description
This course focuses on the skill development with an emphasis on correct grammar, punctuation, sentence structure, vocabulary, preparation of business letters and reports, and on presenting information in a logical, forceful and acceptable form.

General Education Course
Academic

Learning Outcomes

Name
1.Identify basic parts of speech.

Name
2.Use nouns, pronouns, verbs, prepositions, and conjunctions correctly.

Name
3.Use subject/verb agreement principles correctly.

Name
4.Demonstrate proper use of phrases and clauses and compose simple, compound, complex, and compound/complex sentence structures.

Name
5.Demonstrate proper use of commas, semicolons and colons correctly in sentences and paragraphs.

Name
6.Demonstrate proper grammatical usage for effective spoken and written English, in the business environment.

Name
7.Develop coherent sentences and paragraphs using transitions, pronouns, and repetition of key words.

Name
8.Utilize English skills in proofreading, editing, and writing business documents and various forms of communication such as emails, text messages, letters, reports, etc.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 105/OATS 105

BUSA 1180 - Business Math

General

Subject code	Course Number	Course Title
BUSA	1180	Business Math

Description
Applies basic mathematical operations to business and accounting applications.

General Education Course
Academic

Learning Outcomes

Name
1.Select and interpret relevant information in narrative problems to solve a given business situation.

Name
2.Choose appropriate formulas to solve quantitative business-related problems.

Name
3.Use formulas accurately to solve quantitative business-related problems.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 106/BMGT 216/OATS 106

BUSA 1210 - Records Management

General

Subject code	Course Number	Course Title
BUSA	1210	Records Management

Description
Principles, methods and procedures for the selection, operation and control of manual and automated records systems.

General Education Course
Academic

Learning Outcomes

Name
1.Recognize Records Control and Management systems.

Name
2.Utilize vocabulary pertaining to records management.

Name
3.Recognize the importance of using organized, efficient records management systems.

Name
4.Recognize various kinds of filing equipment and supplies (paper and electronic).

Name
5.Apply ARMA (Association for Records Managers and Administrators) rules in alphabetic card and correspondence filing exercises.

Name
6.Apply procedures for maintaining and controlling records including: requisitioning, charging-out, returning, and reserving files.

Name
7.Discuss records retention cycle including: control procedures for transferring, storing, and destruction of files.

Name
8.Recognize the use of color as a method for improving efficiency in filing systems.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 110/OATS 110

BUSA 1320 - Principles of Supervision

General

Subject code	Course Number	Course Title
BUSA	1320	Principles of Supervision

Description
Principles of supervision emphasizing planning, organization, rating of employees and procedures to develop good morale. Introduction to interpretation of case studies.

General Education Course
Academic

Learning Outcomes

Name
1. Describe the roles of a supervisor and identify general supervisor functions, and what makes a successful supervisor.

Name
2. Discuss the supervisor as a leader, explaining leadership theories and management styles presented through examples.

Name
3. Develop and communicate guidelines for groups and teams in the workplace, emphasizing social responsibility and ethics in the workplace.

Name
4. Discuss in detail the function of the supervisor by creating goals, problem solving, and decision-making.

Name
5. Identify, examine, and discuss the core skills of a supervisor.

Name
6. Distinguish and describe the role of supervision in human resources in an organization and discuss effective processes in the selection of employees, training employees, and conducting performance appraisals.

Name
7. Define modern communication theory and discuss the importance of effective communication.

Name
8. Describe human motivation theory and effective methods for building relationships.

Name
9. Identify the techniques of managing change and stress.

BUSA 2120 - Introduction to Global Business

General

Subject code
BUSA

Course Number
2120

Course Title
Introduction to Global Business

Description
Introduces international business and the globalization of the economy. The students are introduced to objectives, opportunities and challenges facing those who engage in business in foreign countries. Foreign organizations, cultural dynamics, trade channels, legal environment and political considerations are discussed.

General Education Course
Academic

Learning Outcomes

Name
1.Describe important differences between international business and domestic business.

Name
2.Synthesize the concept of globalization.

Name
3.Define and use key terms relating to international business.

Name
4.Identify basic trade patterns and underlying assumptions of trade theories.

Name
5.Differentiate the major forms of operations, agreements, and organizational strategies firms may use to meet international objectives.

Name
6.Discuss how home country, host country, and organizational cultures interact and how small business and the multinational enterprise are influenced by cultural variables.

Name
7. Apply the strategy and structure of international business.

Common Course Numbering Crosswalk

Past Course Numbers
BUSA 111

BUSA 2175 - Personal Development

General

Subject code
BUSA

Course Number
2175

Course Title
Personal Development

Description
Development of a marketable, employable office systems person, to include interview, voice, manners, and apparel.

General Education Course
Academic

Learning Outcomes

Name
1.Plan, compose and create a resume, list of references, letter of application and other job search documents.

Name
2.Research job leads.

Name
3.Prepare for job interviews.

Name
4.Perform self-assessment and self-examination in order to improve soft skills.

Name
5.Develop soft skills to improve employability and job success.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 239/OATS 239

BUSA 2220 - Human Resource Management

General

Subject code
BUSA

Course Number
2220

Course Title
Human Resource Management

Description
This course covers those topics, which would be relevant to the role of human resource department in today's firm. Topics include: human resource management, compensation and benefits, labor relations, E.E.O., affirmative action, employment and placement, training and development, and other related topics.

General Education Course
Academic

Learning Outcomes

Name
1. To present the relevant details of human resource management as it applies to organizational effectiveness and competitive advantage.

Name
2. To provide a framework to describe the ramifications of human resource decisions upon the organizational environment.

Name
3. To understand the legal and ethical aspects of human resources in manner that highlights the relevance of these aspects in human resources and the business environment.

Name
4. Describe how firms can use human resource (HR) initiatives to cope with workplace changes and trends such as a more diverse workforce, the global economy, downsizing, and new legislation, including how a firms human resources can influence its performance.

Name
5. Formulate and implement HR strategies that can help the firm achieve a sustained competitive advantage.

Name
6. Describe the different organizational structures and the business environments as it related to human resources.

Name
7. List the factors influencing worker motivation that are under a managers control.

BUSA 2230G - Human Relations in Business

General

Subject code	Course Number	Course Title
BUSA	2230G	Human Relations in Business

Description
This course is an examination and application of personal and interpersonal competencies and skills needed in a business setting to understand oneself, one's co-workers, employers, and customers.
Students will investigate and examine attitudes, behavior, ethical behavior and cultural influences that affect the business environment. It offers structured situations in which interpersonal relationships and communication skills are explored.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Identify and describe the relevance and development of human relations theories as they apply to management, interpersonal interactions, leadership, conflict resolution and other behaviors in the workplace.

Name
2.Critically examine how individual beliefs, values, attitudes and perceptions of the world are formed and discuss how they affect self-esteem and human interactions in the workplace individually and in formal and informal groups.

Name
3. Recognize differing communication styles and apply effective communication skills to various workplace situations.

Name
4. Examine the interrelationships between self, culture, ethnicity, gender and personal environment and analyze their effects on the development of individual work behaviors.

Name
5. Articulate the factors that influence the development of communication, self-esteem, motivation, trust, leadership and conflict resolution skills.

Name
6. Apply knowledge of human behavior and its origins to the analysis of workplace case studies and the development of solutions to workplace dilemmas.

Name
7. Apply ethical decision-making in business situations.

Common Course Numbering Crosswalk

Past Course Numbers
BGMT 240

BUSA 2250 - Work Readiness

General

Subject code	Course Number	Course Title
BUSA	2250	Work Readiness

Description
Instruction in methods of selecting, seeking, acquiring and retaining employment. Work success skills, business etiquette, employer expectations and workplace norms are addressed.

General Education Course
Academic

Learning Outcomes

Name
1.Catalog personal and professional information that will be aid in career planning and job search processes.

Name
2.Develop methods of establishing short- and long-term career goals.

Name
3.Recognize the strengths of the various kinds of resumes and how they are used based on the ones career status and type of job being sought.

Name
4.Explain the importance of good communication and work etiquette in job success.

Name
5.Demonstrate how to create a professional image to increase job search success.

Name
6.Explore career management opportunities and practices.

Name
7.Demonstrate successful interview techniques.

Name
8.Compare and contrast employee and employer expectations.

Name
9.Discuss and ethical and appropriate work practices.

Name
10.Prepare a job specific resume, cover letter, and follow up/thank you letter which are professional and appropriate.

Common Course Numbering Crosswalk

Past Course Numbers
BMGT 201

BUSA 2996 - Topics in Business Administration

General

Subject code
BUSA

Course Number
2996

Course Title
Topics in Business Administration

Description
Varies

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

BUSA 2999 - Capstone in Business Managment

General

Subject code
BUSA

Course Number
2999

Course Title
Capstone in Business Managment

Description
Focuses on assessment of Student Learning Outcomes for Business program of study.

General Education Course
Academic

Learning Outcomes

Name
1.Apply general business, marketing and management concepts in a global environment.

Name
2.Create and interpret financial documents (income statements, balance sheet, and profit and loss statements).

Name
3.Work and interact with others as part of a team.

Name
4.Systematically research and evaluate issues and problems and develop and apply possible solution.

Name
5.Organize and express ideas clearly in verbal and written form; and

Name
6.Apply solutions using technology to general business, marketing, and management situation.

Common Course Numbering Crosswalk

Past Course Numbers
BMGT 290

C E 151 - Introduction to Civil Engineering

General

Subject code	Course Number	Course Title
CE	151	Introduction to Civil Engineering

Description
Problem solving and use of computer software for civil engineering applications.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Effective communication skills in reading, writing, listening, and speaking.

Name
2.Basic critical thinking skills.

Name
3.An understanding of the obligations of effective citizenship in a democratic society.

Name
4.An understanding of the fundamental concepts of mathematics and science.

Name
5.Appropriate technological literacy and skills for personal and professional use.

Name
6. An understanding of the fundamental concepts for analyzing significant primary texts and/or works of art, including fine arts, literature music, theater, and film.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): MATH1220G College Algebra

C E 233 - Mechanics-Statics

General

Subject code	Course Number	Course Title
CE	233	Mechanics-Statics

Description
Engineering mechanics using vector methods.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1.To understand the physical principles required for static equilibrium.

Name
2.To become skillful with the mathematical and graphical techniques of vector analysis.

Name
3.To be able to apply these principles and techniques to rigid structures of importance in engineering.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1521G Calculus and Analytic Geometry II, PHYS1310G Calculus -Based Physics I and cumulative GPA of 2.0

C E 234 - Mechanics-Dynamics

General

Subject code	Course Number	Course Title
CE	234	Mechanics-Dynamics

Description
Kinematics and dynamic behavior of solid bodies utilizing vector methods.
Repeatable: up to 3 credits.
Crosslist: M E 234.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors and MATH1511G Calculus and Analytic Geometry I or ENGR190 Introduction to Engineering Mathematics

C S 111 - Computer Science Principles

General

Subject code	Course Number	Course Title
CS	111	Computer Science Principles

Description

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.

General Education Course

Technical

Learning Outcomes

Name

1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in MATH1215 Intermediate Algebra or higher

C S 117 - Introduction to Computer Animation

General

Subject code	Course Number	Course Title
CS	117	Introduction to Computer Animation

Description

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.

General Education Course

Technical

Learning Outcomes

Name

1. Varies, please see course syllabus.

C S 153 - Python Programming I

General

Subject code	Course Number	Course Title
CS	153	Python Programming I

Description

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.

General Education Course

Technical

Learning Outcomes

Name

1. Apply programming concepts to design and develop solutions for computational problems.

Name

2. Utilize optimal flow-control strategy for solving a given problem.

Name

3. Design and implement functions to support organization, decomposition and reusability of code.

Name

4. Evaluate and select data structures to efficiently organize and store information for a given problem.

Name

5. Demonstrate the concept of scope to control access to global, local, and class variables.

Name

6. Create and use a simple class to demonstrate object-oriented programming principles.

Name

7. Utilize basic file input/output with text-based files.

C S 158 - R Programming I

General

Subject code
CS

Course Number
158

Course Title
R Programming I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

CCDE 105 N - Effective Communication Skills

General

Subject code
CCDE

Course Number
105 N

Course Title
Effective Communication Skills

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Structure and logically organize a written paragraph using a topic sentence and appropriate transitions.

Name
2. Support a point or claim using at least three examples, details, facts, or other appropriate evidence without inappropriate digression.

CCDE 110 N - General Composition

General

Subject code
CCDE

Course Number
110 N

Course Title
General Composition

Description
Instruction and practice in preparation for college-level writing. Students will develop and write short essays. Provides laboratory.

General Education Course
Academic

Learning Outcomes

Name
1. Avoid the most common and problematic editing errors, including spelling errors, use of inappropriate verb form, and major sentence errors.

Name
2.Demonstrate the ability to successfully plan an essay with a detailed outline that includes a limited thesis statement and planning for sufficient content for well-developed body paragraphs.

Name
3.Identify at least two types of plagiarism and the most common strategies for avoiding them.

CCDM 100 N - Mathematics Preparation for College Success

General

Subject code
CCDM

Course Number
100 N

Course Title
Mathematics Preparation for College Success

Description
Mathematics skills course designed for college students with math skills insufficient for success in CCDM 103N.
Repeatable: for a maximum of 4 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Add, subtract, multiply and divide using whole numbers, fractions, decimals, and percentages.

Name
2. Solve problems involving ratios, percentages, and proportions.

Name
3. Add, subtract, multiply and divide integers.

CCDM 103 N - Pre-Algebra

General

Subject code	Course Number	Course Title
CCDM	103 N	Pre-Algebra

Description
Fundamental mathematics operations and arithmetic computations. Introduction to algebra and applied geometry. Provides laboratory and individualized instruction.

General Education Course
Academic

Learning Outcomes

Name
1.Evaluate algebraic expression containing exponents, polynomials and rational expressions.

Name
2.Use the order of operation.

Name
3.Solve linear equations in one variable using the addition and multiplication properties.

Name
4.Add, subtract, multiply and divide integers, fractions, decimals and percentages.

Name
5.Solve problems involving ratios and percentages.

Name
6.Calculate square roots and use Pythagorean Theorem in problem solving.

Name
7.Determine Congruent and Similar Triangles.

Name
8.Use formulas to find perimeter, area, surface area and volume of some basic geometric shapes.

CCDM 105 N - Mathematics Preparation and Pre-Algebra

General

Subject code	Course Number	Course Title
CCDM	105 N	Mathematics Preparation and Pre-Algebra

Description
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. (4+2P)

General Education Course
Academic

Learning Outcomes

Name
1. Solve linear equations in one variable using the addition and multiplication properties.

Name
2. Add, subtract, multiply and divide integers.

Name
3. Solve problems involving ratios and proportions.

CCDM 112 N - Developmental Algebra I

General

Subject code	Course Number	Course Title
CCDM	112 N	Developmental Algebra I

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Evaluate and simplify exponential expressions.

Name
2. Add, subtract, multiply and divide polynomials.

Name
3. Factor all forms of polynomials.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CCDM103 N Pre-Algebra or CCDM105 N Mathematics Preparation and Pre-Algebra , or an appropriate placement score

CCDM 113 N - Developmental Algebra II

General

Subject code	Course Number	Course Title
CCDM	113 N	Developmental Algebra II

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Graph linear equations and inequalities in two variables.

Name
2. Solve systems of linear equations by graphing, substitution, and addition.

Name
3. Simplify, add, subtract, multiply and divide radicals, and solve radical equations.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CCDM103 N Pre-Algebra

CCDM 114 N - Algebra Skills

General

Subject code	Course Number	Course Title
CCDM	114 N	Algebra Skills

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Solve application and modeling problems using appropriate methods such as linear equations, formulas, and linear inequalities.

Name
2. Simplify exponential expressions using exponent rules.

Name
3. Factor quadratic polynomials.

Name
4. Add rational expressions with different denominators, and write answers in the lowest terms.

Name
5. Graph linear equation in two variables.

Name
6. Solve the systems of equations by graphing, substitution, and addition.

Name
7. Add, subtract, multiply and divide radicals.

Name
8. Solve quadratic equations by factoring, using square root property and the Quadratic formula.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in CCDM103 N Pre-Algebra or CCDM105 N Mathematics Preparation and Pre-Algebra, or an appropriate placement score

CCDR 103 N - Comprehensive Reading Development

General

Subject code	Course Number	Course Title
CCDR	103 N	Comprehensive Reading Development

Description

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.
Repeatable: up to 4 credits.

General Education Course

Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

CCDR 105 N - Fundamentals of Academic Reading

General

Subject code	Course Number	Course Title
CCDR	105 N	Fundamentals of Academic Reading

Description

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.
Repeatable: up to 3 credits.

General Education Course

Academic

Learning Outcomes

Name
1. Demonstrate the main idea and supporting details within diverse sources.

Name
2. Explain patterns of organization, detecting facts and opinions, and recognizing inferences among a variety of materials.

Name
3. Define vocabulary with word parts and in context across the disciplines.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): An appropriate placement score

CCDR 110 N - Effective College Reading

General

Subject code	Course Number	Course Title
CCDR	110 N	Effective College Reading

Description

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.
Repeatable: up to 3 credits.

General Education Course

Academic

Learning Outcomes

Name
1. Demonstrate the main idea and supporting details within diverse sources.

Name
2. Explain patterns of organization, detecting facts and opinions, and recognizing inferences among a variety of materials.

Name
3. Define vocabulary with word parts and in context across the disciplines.

Name
4. Apply reading strategies for previewing college textbook selections and comprehending content.

Name
5. Demonstrate how to use a vocabulary strategy for learning new textbook terminology.

Name
6. Demonstrate how to utilize the organization of a text selection for the purpose of locating specific information including main ideas and supporting details.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): An appropriate placement score

CCDS 109 N - Study Skills for Reading

General

Subject code	Course Number	Course Title
CCDS	109 N	Study Skills for Reading

Description
Individualized reading skill strategies necessary for success in college classroom. Repeatable: for a maximum of 3 credits.
Graded: traditional or S/U.

General Education Course
Academic

Learning Outcomes

Name
1. Demonstrate the main idea and supporting details within diverse sources.

Name
2. Explain patterns of organization, detecting facts and opinions, and recognizing inferences among a variety of materials.

Name
3. Define vocabulary with word parts and in context across the disciplines.

CCDS 111 N - Study Skills for Math

General

Subject code	Course Number	Course Title
CCDS	111 N	Study Skills for Math

Description
Individualized study skill strategies necessary for success in the math classroom. Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Implement study skills specific to mathematics by being able to identify, define, memorize, and analyze key terms an concepts.

Name
2. Create and use math study guides and other visual aids.

Name
3. Apply study skills to master concepts introduced in CCDM 114N.

Name
4. Utilize technology such as "My Math Lab" and other software programs in order to support learning in CCDM 114N.

CCDS 113 N - Study Skills for English

General

Subject code	Course Number	Course Title
CCDS	113 N	Study Skills for English

Description
Individualized study skill strategies necessary for success in the composition classroom. Repeatable: for a maximum of 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Analyze communication through reading and writing skills.

Name
2.Employ writing processes such as planning, organizing, composing, and revising.

Name
3.Express a primary purpose and organize supporting points logically.

Name
4.Use and document research evidence appropriate for college-level writing.

Name
5.Employ academic writing styles appropriate for different genres and audiences.

Name
6.Identify and correct grammatical and mechanical errors in their writing.

CCDS 119 N - College Reading and Writing

General

Subject code	Course Number	Course Title
CCDS	119 N	College Reading and Writing

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): An appropriate placement score

CCDS 104N - CMPRHNSVE RDG DVLPMNT

General

Subject code	Course Number	Course Title
CCDS	104N	CMPRHNSVE RDG DVLPMNT

General Education Course
Academic

CE FXM/FP - Special FX Makeup/Face Painting

General

Subject code	Course Number	Course Title
CEFXMFP	FXM/FP	Special FX Makeup/Face Painting

Description
In this class students will learn how to create wounds, bruises, scars and transform their faces completely! Students will learn what products are best for achieving these looks, how to use those products and different types of material to make it look realistic.

CE ART - CEArt 0001

General

Subject code	Course Number	Course Title
CEART	ART	CEArt 0001

Description
In this class children will learn about a different art medium each month it is taught. Learning proper techniques that will enhance their pieces as will as some fun facts about the subjects we are creating. This class is meant to be a gateway to different types of artwork so that children can discover what they would like to further explore are a growing new artists.

CE BASL - Beginning American Sign Language ASL

General

Subject code	Course Number	Course Title
CEBASL	BASL	Beginning American Sign Language ASL

Description
This beginner level ASL class will give you the opportunity to learn the manual alphabet, conversational signs, and develop communication skills, You will enjoy this fun and encouraging learning environment as you build your language skills in ASL! American Sign Language (ASL) is the third most widely used language in America. In this class, students will learn basic vocabulary, grammar and conversational phrases used in American Sign Language. In addition, the manual alphabet, numbers and finer-spelling will be introduced.

CE BC - Beginning Crochet

General

Subject code	Course Number	Course Title
CEBC	BC	Beginning Crochet

Description
Lean the basics of crochet over the course of 4 weeks. We'll go over how to begin your project, three of the basic stitches, how to crotchet in the round, how to increase, and how to read a pattern. By the end you will have completed 3 projects and be on your way to finishing a fourth just in time for holiday gift giving!

CE BCS - Basic Computer Skills

General

Subject code	Course Number	Course Title
CEBCS	BCS	Basic Computer Skills

Description
Are you intimidated by computers or are you a bit rusty with your skills? This class will take care of those problems as you will learn basic file formats, how to organize folders and files, how to zip and unzip files, ways to backup your data, how to set commuter preferences, and much more!

CE CB - Charcuterie Boards

General

Subject code	Course Number	Course Title
CECB	CB	Charcuterie Boards

Description
You're invited to learn the art of charcuterie in a fun and creative way. In this class you'll learn about each ingredient and the top tips and tricks on how to build a charcuterie board made for entertaining. Wow your friends with these eye-catching, photo-worthy boards that look just as good as they taste.

CE CDWRI - Cookie Decorating with Royal Icing

General

Subject code	Course Number	Course Title
CECDWRI	CDWRI	Cookie Decorating with Royal Icing

Description
In this class you will learn the basics on how to get stared with royal icing and coloring then advance to a more detailed designs such as characters and custom cookies. You will learn about shading, air brushing and many other techniques to create an amazing cookies!

CE CERAMICS - Ceramics

General

Subject code	Course Number	Course Title
CECERAMICS	CERAMICS	Ceramics

Description
This is the perfect class for beginner ceramic artists and potters who are ready to get their feet..well.. HANDS wet and try out the craft. We will be learning how to hand build pieces and the process from molding to firing allowing the ability for safe use with food and drinks, crating practical as well as decorative pieces from scratch.

CE ELP - Encanto Learn and Play

General

Subject code	Course Number	Course Title
CEELP	ELP	Encanto Learn and Play

Description
In this class your child will learn and play using curriculum from their favorite move, kids will dance and sing along to their favorite Encanto songs and make fun and creative crafts as well as learning about a different culture.

CE FMFB - French Macarons for Beginners

General

Subject code	Course Number	Course Title
CEFMFB	FMFB	French Macarons for Beginners

Description
French Macarons are a fun treat to impress your friends with! While they may appear to be a complicated confection, in this class you will learn how to make them without fail, you will learn how to get a beautiful and thick macaron shell with vibrant colors and how to make a delicious fillings.

CE ITDO - Introduction to Dog Obedience

General

Subject code	Course Number	Course Title
CEITDO	ITDO	Introduction to Dog Obedience

Description
Handlers and dogs learn together basic training and proper methods for correcting unwanted behavior. Exercises taught are: proper heel position, automatic sits, sit/stay, down/stay, come when called, attention skills, and more. All exercises in this class are done on lead. Dogs must be fully vaccinated!

CE ITW - Introduction to Word

General

Subject code	Course Number	Course Title
CEITW	ITW	Introduction to Word

Description
Microsoft Word is the most widely used word processor in the world; it is considered by many to be the single most useful application. Word has tolls and features that can help you speed up the creation of any document you might need. All you need is the desire to learn! Prerequisite: Must have some experience with computers.

CE JMFB - Jewelry Making for Beginners

General

Subject code	Course Number	Course Title
CEJMFB	JMFB	Jewelry Making for Beginners

Description
Learn to make your won basic jewelry by creating a variations of techniques in order to imagine and design your own unique jewelry creations! By the end of the class you will have 4 sets of earrings and a combo pair of dangle earrings and a matching bracelet.

CE PDC - Photography with a Digital Camera

General

Subject code	Course Number	Course Title
CEPDC	PDC	Photography with a Digital Camera

Description
Learn the basics of photography as you explore the capabilities of your digital camera. Discover what aperture, shutter speed, and white balance are and how they affect your photographs. Find out how and when to use flash, and experiment with photographic composition to get the most out of your camera and yourself! We will also cover the basics of downloading our photos to your computer or a printing station, if needed. Recommended for those new to photography as well as film photographers who want to make the switch to digital. Note: Bring our camera (any type), manual, and extra batteries to class.

CE PPDP - Paw Patrol Dance and Play

General

Subject code	Course Number	Course Title
CEPPDP	PPDP	Paw Patrol Dance and Play

Description
Kids will love to dance and sing along to Nickelodeon's catchy PAW Patrol theme songs with their favorite characters, This class will be filled with rhymes and fun. Dancers will also learn skills like balance, control and coordination.

CE RTP - Royal Tea Party

General

Subject code	Course Number	Course Title
CERTP	RTP	Royal Tea Party

Description
Your child will be invited to a royal tea party where they will learn proper tea etiquette, play royal games, build royal crafts...to name a few. There will also be a surprise royal guest at the end of the party.

CE TS - Travel Spanish

General

Subject code	Course Number	Course Title
CETS	TS	Travel Spanish

Description
This course will be an introduction to travel Spanish, you will learn phrases that every traveler needs to know which will make your trip to any Spanish-speaking country so much more fun and meaningful if you can communicate with locals.

CE YC - Young Chefs

General

Subject code	Course Number	Course Title
CEYC	YC	Young Chefs

Description
Do you like to eat? Would you like to make your own snacks? Come be a Young Chef! Young Chefs will learn how to make fun and nutritious snacks that can be made independently or with little help from a parent.

CE YOGA - Yoga

General

Subject code	Course Number	Course Title
CEYOGA	YOGA	Yoga

Description
Vinyasa/Zen yoga is a flowing, dynamic sequence of poses. This type of practice involves synchronizing the breath with a continuous flow of postures. Students will coordinate movement with breath to flow from one pose to the next in order to release toxins from the body, re-energize, and relax the chatter of the mind.

CEPY 1120G - Human Growth and Behavior

General

Subject code	Course Number	Course Title
CEPY	1120G	Human Growth and Behavior

Description
Introduction to the principles of human growth and development throughout the life span.
Repeatable: up to 3 credits.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1.Students will demonstrate an understanding of the scientific study of processes of change and stability throughout the human lifespan (i.e. Human Development).

Name
2.Students will demonstrate a familiarity with the generally recognized stages of human development from conception to death.

Name
3.Students will be able to demonstrate understanding of the normal and exceptional patterns of human development.

Name
4.Students will be able to demonstrate understanding of recent research development regarding the identified stages of human development as they relate to gender and multicultural issues

Common Course Numbering Crosswalk

Past Course Numbers
C EP 110G

CEPY 1150 - Career Excellence

General

Subject code	Course Number	Course Title
CEPY	1150	Career Excellence

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Demonstrate an understanding of the relationship between academic and professional career success.

Name
2.Express a familiarity with professionalism and career culture and communicate a comprehension of various professional career skills.

Name
3.Apply material learned to other aspects to professional excellence.

Name
4.Develop a career life plan that will highlight goals, taking into account life circumstances.

Name
5.Become competent in appropriate professional communication.

Common Course Numbering Crosswalk

Past Course Numbers
C EP 199

CEPY 1160 - Academic Excellence

General

Subject code	Course Number	Course Title
CEPY	1160	Academic Excellence

Description
This course is designed to provide 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.

General Education Course
Academic

Learning Outcomes

Name
1.Students will be able to demonstrate an understanding of the relationship between time management and academic success.

Name
2.Students will be able to express a familiarity with college culture.

Name
3.Students will be able to communicate a comprehension of study skills and test taking strategies.

Name
4.Students will be able to apply material learned to other aspects to enhance academic excellence.

Name
5.Students will be able to develop an academic life plan that will highlight goals, taking into account life circumstances.

Name
6.Become competent in appropriate academic communication.

CEPY 2110 - Learning in the Classroom

General

Subject code	Course Number	Course Title
CEPY	2110	Learning in the Classroom

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Define learning and compare and contrast the factors that cognitive, behavioral, and humanistic theories believed to influence the learning process, giving specific examples of how these principles could be used in the classroom.

Name
2.Observe and reflect upon the teaching learning processes in economically, socially, culturally and educationally diverse classroom populations in order to develop a current understanding of students and families in public and private school.

Name
3.Discuss how theories of information processing and cognitive theories of learning can impact memory, study strategies, and how certain teaching techniques can help students learn.

Name
4.Compare teacher-centered and student-centered approaches to learning, and to identify a positive learning environment.

Name
5.Identify various methods to motivate students and create effective learning environments.

Name
6.Use major concepts of child and adolescent development, human learning, and social and cultural influences in planning and implementing classroom instruction, strategies, and management.

Name
7.Evaluate the best means of accommodating instruction to meet individual needs and differences.

Name
8.Students will examine how learning style, cultural and social issues and learning disabilities impact the learners effectiveness in the classroom setting.

Name
9.Explain different types of assessment used to assess learning and provide examples of effective assessment practices.

Name
10.Discuss the relationship between motivation and classroom management.

Common Course Numbering Crosswalk

Past Course Numbers
C EP 210

CEPY 2120 - The Preschool Child

General

Subject code	Course Number	Course Title
CEPY	2120	The Preschool Child

Description
Survey of phycological development from conception to age five.

General Education Course
Academic

Learning Outcomes

Name
1.Demonstrate an understanding of major theories of early childhood development.

Name
2.Demonstrate an understanding of recognized stages of human development from prenatal to preschool years.

Name
3.Explore cultural influences that may create variability in human development.

Name
4. Apply major theories to themselves and reflect on their early childhood development.

Common Course Numbering Crosswalk

Past Course Numbers
C EP 215

CEPY 2130 - Adolescence - School Setting

General

Subject code	Course Number	Course Title
CEPY	2130	Adolescence - School Setting

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Students will become knowledgeable about the historical background of adolescent development.

Name
2.Students will become knowledgeable about the major theories related to adolescence.

Name
3.Students will evaluate different developmental theories and their fit across cultures as you reflect on your personal experiences through discussions and videos you will watch.

Name
4.Students will identify key developmental milestones, conflicts, and concepts of each chapter presented by utilizing critical thinking skills as you complete summary questions.

Name
5.Students will define relevant terms, ideas, and concepts in the study of adolescent development through quizzes and homework assignments.

Common Course Numbering Crosswalk

Past Course Numbers
C EP 240

CEPY 2140 - Explorations of Counseling & Community Psychology

General

Subject code	Course Number	Course Title
CEPY	2140	Explorations of Counseling & Community Psychology

Description
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).
Repeatable: up to 6 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Acquire knowledge of historical and contemporary issues which affect the provision of mental health services by members of diverse mental health disciplines including clinical, counseling, school, and community psychologists, clinical mental health counselors, and others.

Name
2.Acquire knowledge pertaining to education and training requirements for various disciplines.

Name
3.Acquire survey-level knowledge of psychological assessment, measurement, and treatment.

Name
4.Acquire survey-level knowledge of various inquiry approaches applicable to research pertaining to mental health and well-beingboth at the individual and community level.

Name
5.Understand the mental health recovery model and explore the lived experiences of individuals with mental health problems in contemporary society.

Name
6. Understand the principles of sensitivity and respect for diverse populations as integral to professional practice in diverse mental health disciplines and settings, including practice in educational and community settings.

Common Course Numbering Crosswalk

Past Course Numbers
C EP 298

CEPY 2140H - Explorations of Counseling & Community Psychology (Honors)

General

Subject code	Course Number	Course Title
CEPY	2140H	Explorations of Counseling & Community Psychology (Honors)

Description
Honors version of CEPY 2140. 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).

General Education Course
Academic

Learning Outcomes

Name
1. Demonstrating knowledge of the basic functions of careers in counseling, community and school psychology.

Name
2. Establishing a familiarity with the educational requirements necessary for a career in counseling, community, and school psychology.

Name
3. Acknowledging and enhancing sensitivity and respect for diverse populations in various counseling areas; including educational and community settings.

Name
4. Beginning to develop the interpersonal skills needed to succeed in the counseling, community and school psychology professions.

Common Course Numbering Crosswalk

Past Course Numbers
C EP 298 H

CHEF 101 - Culinary Arts Kitchen Orientation

General

Subject code	Course Number	Course Title
CHEF	101	Culinary Arts Kitchen Orientation

Description
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. (2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

CHEF 125 - Introductory Cake Decorating

General

Subject code	Course Number	Course Title
CHEF	125	Introductory Cake Decorating

Description
Introduction to the professional cake decorating techniques used by pastry chefs. Basic skills of piping a variety of icings into different patterns are taught. (2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

CHEF 126 - Intermediate Cake Decorating

General

Subject code	Course Number	Course Title
CHEF	126	Intermediate Cake Decorating

Description
Introduction to more advanced professional cake decorating techniques used by pastry chefs. Fondant work and more complex decorating schemes are taught.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEF125 Introductory Cake Decorating

CHEF 127 - Chocolate Work

General

Subject code	Course Number	Course Title
CHEF	127	Chocolate Work

Description
Introduction to working with chocolate utilizing a variety of methods. Tempering, forming, molding, and other professional techniques will be taught. (2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

CHEF 128 - Advanced Chocolate Work

General

Subject code	Course Number	Course Title
CHEF	128	Advanced Chocolate Work

Description
More advanced treatments of chocolate are explored and professional techniques for the chocolatier are developed.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEF127 Chocolate Work

CHEF 129 - Wedding Cake Design and Construction

General

Subject code	Course Number	Course Title
CHEF	129	Wedding Cake Design and Construction

Description
Basic skills in designing wedding (or other specialty event) cakes. Includes shaping, icing selection, decorating scheme, presentation, transportation, and remote set up. (2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEF125 Introductory Cake Decorating and CHEF126 Intermediate Cake Decorating

CHEF 155 - Special Topics

General

Subject code	Course Number	Course Title
CHEF	155	Special Topics

Description
Specific subjects to be announced in the Schedule of Classes.
Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

CHEF 165 - Math for Kitchen Operations

General

Subject code	Course Number	Course Title
CHEF	165	Math for Kitchen Operations

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

CHEF 211 - Food Production Management I

General

Subject code	Course Number	Course Title
CHEF	211	Food Production Management I

Description
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.
Crosslist: HOST 211.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

CHEF 212 - Food Production Management II

General

Subject code	Course Number	Course Title
CHEF	212	Food Production Management II

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEF211 Food Production Management I

CHEF 213 - Bakery Management

General

Subject code	Course Number	Course Title
CHEF	213	Bakery Management

Description
Fundamentals of baking from a supervisory/management perspective. Exposure to commercial equipment and processes. Introduction to commercial alternatives to scratch-preparation methods. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

CHEF 214 - Bakery Management II

General

Subject code	Course Number	Course Title
CHEF	214	Bakery Management II

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEF213 Bakery Management

CHEF 233 - Culinary Arts Fundamentals I

General

Subject code	Course Number	Course Title
CHEF	233	Culinary Arts Fundamentals I

Description
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.
Repeatable: up to 4 credits.
CHEF, HOST, majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

CHEF 234 - Culinary Arts Fundamentals II

General

Subject code	Course Number	Course Title
CHEF	234	Culinary Arts Fundamentals II

Description
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.
Repeatable: up to 4 credits.
HOST, CHEF majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEF233 Culinary Arts Fundamentals I

CHEF 235 - Advanced Culinary Arts I

General

Subject code	Course Number	Course Title
CHEF	235	Advanced Culinary Arts I

Description
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.
Repeatable: up to 4 credits.
CHEF majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): CHEF234 Culinary Arts Fundamentals II

CHEF 236 - Advanced Culinary Arts II

General

Subject code	Course Number	Course Title
CHEF	236	Advanced Culinary Arts II

Description
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.
CHEF majors. (1+9P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEF235 Advanced Culinary Arts I

CHEF 237 - Banquet/Catering Production

General

Subject code	Course Number	Course Title
CHEF	237	Banquet/Catering Production

Description
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.
Repeatable: up to 6 credits.
CHEF, HOST majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEF233 Culinary Arts Fundamentals I

CHEF 240 - Baking Fundamentals I

General

Subject code	Course Number	Course Title
CHEF	240	Baking Fundamentals I

Description
Introduction to baking techniques, measurement and use of ingredients; equipment use and chemical reactions inherent in the baking process. Production of simple desserts and baked goods. Introduction to working with bread doughs. HOST, CHEF majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): CHEF233 Culinary Arts Fundamentals I

CHEF 241 - Baking Fundamentals II

General

Subject code	Course Number	Course Title
CHEF	241	Baking Fundamentals II

Description
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. HOST, CHEF majors. (1+9P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEF240 Baking Fundamentals I

CHEF 242 - Intermediate Baking I

General

Subject code	Course Number	Course Title
CHEF	242	Intermediate Baking I

Description
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. HOST, CHEF majors. (1+9P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEF241 Baking Fundamentals II

CHEF 243 - Intermediate Baking II

General

Subject code	Course Number	Course Title
CHEF	243	Intermediate Baking II

Description
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. (1+9P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEF242 Intermediate Baking I

CHEF 255 - Special Topics

General

Subject code	Course Number	Course Title
CHEF	255	Special Topics

Description
Specific subjects to be announced in the Schedule of Classes. Repeatable: up to 6 credits. HOST majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

CHEF 256 - International Cuisine

General

Subject code	Course Number	Course Title
CHEF	256	International Cuisine

Description
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.
Repeatable: up to 6 credits.
CHEF, HOST majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEF233 Culinary Arts Fundamentals I

CHEF 257 - Garde Manger

General

Subject code	Course Number	Course Title
CHEF	257	Garde Manger

Description
Traditional garde manger skills are taught, including plated salads, cold foods, entremets, pates, forcemeat, terrines, charcuterie and chaud froid work. The art and craft of food design, preparation and service are emphasized.
Repeatable: up to 3 credits.
CHEF, HOST majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEF233 Culinary Arts Fundamentals I

CHEF 260 - Nutrition for Chefs

General

Subject code	Course Number	Course Title
CHEF	260	Nutrition for Chefs

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

CHEM 1111 - Basic Chemistry

General

Subject code	Course Number	Course Title
CHEM	1111	Basic Chemistry

Description
For students whose preparatory science or math training has been deficient. Does not meet the chemistry requirement in any curriculum.

General Education Course
Academic

Learning Outcomes

Name
1. The goals and objectives for CHEM 1111 are to equip students with the necessary problem solving skills to be successful in CHEM 1216C/1226C

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CCDM114 N Algebra Skills or an appropriate placement score

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 100

CHEM 1120G - Introduction to Chemistry Lecture and Laboratory (non majors)

General

Subject code	Course Number	Course Title
CHEM	1120G	Introduction to Chemistry Lecture and Laboratory (non majors)

Description
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.

General Education Course
Area III, Academic

Learning Outcomes

Name
1.Use the different systems of measurements and perform conversions within the same system of measurement and between different systems of measurements.

Name
2.Identify elements from their name or symbol, use the periodic table to describe reactivity patterns of elements and to predict compound formation.

Name
3.Describe the basic structure of an atom using subatomic particles, and apply these concepts to nuclear reactions.

Name
4.Describe ion formation and the difference between covalent and ionic compounds. Name and write formulas for ionic and simple molecular compounds.

Name
5.Write and balance chemical reactions. Use balanced reactions in stoichiometric calculations.

Name
6.Describe the differences between the solid, liquid and gas phases. Use the gas laws in calculations, and apply these laws to everyday situations.

Name
7.Explain different types of energy, and how energy is released or absorbed in a reaction.

Name
8.Describe acid and base behavior and the nature of buffer solutions.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CCDM114 N Algebra Skills or MATH1215 Intermediate Algebra or higher

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 110G

CHEM 1121 - General Supplemental Instruction I

General

Subject code	Course Number	Course Title
CHEM	1121	General Supplemental Instruction I

Description
Collaborative workshop for students in General Chemistry I. Course does not count toward departmental degree requirements.
Repeatable: for a maximum of 2 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 101

CHEM 1122 - General Supplemental Instruction II

General

Subject code	Course Number	Course Title
CHEM	1122	General Supplemental Instruction II

Description
Collaborative workshop for students in General Chemistry II. Course does not count toward departmental degree requirements.
Repeatable: for a maximum of 2 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): CHEM1225G General Chemistry II Lecture and Laboratory for STEM Majors

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 102

CHEM 1123 - Principles of Supplemental Instruction III

General

Subject code	Course Number	Course Title
CHEM	1123	Principles of Supplemental Instruction III

Description
Collaborative workshop for students in CHEM 110G, Principles and Applications of Chemistry. Does not count toward departmental degree requirements.
Repeatable: for maximum of 2 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors)

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 103

CHEM 1215G - General Chemistry I Lecture and Laboratory for STEM majors

General

Subject code	Course Number	Course Title
CHEM	1215G	General Chemistry I Lecture and Laboratory for STEM majors

Description
This course covers descriptive and theoretical chemistry.

General Education Course
Area III, Academic

Learning Outcomes

Name
1.Use dimensional analysis, the SI system of units and appropriate significant figures to solve quantitative calculations in science.

Name
2.Explain the structure of atoms, isotopes and ions in terms of subatomic particles.

Name
3.Understand the differences between physical and chemical changes to matter, and utilize the IUPAC system of nomenclature and knowledge of reaction types to describe chemical changes, predict products and represent the process as a balanced equation.

Name
4.Apply the mole concept to amounts on a macroscopic and a microscopic level and use this to perform stoichiometric calculations including for reactions in solution, gases and thermochemistry.

Name
5.Apply the gas laws and kinetic molecular theory to relate atomic level behavior to macroscopic properties.

Name
6.Describe the energy conversions that occur in chemical reactions and state changes, relating heat of reaction to thermodynamic properties such as enthalpy and internal energy, and apply these principles to measure and calculate energy changes in reaction.

Name
7.Use different bonding models to describe formation of compounds (ionic and covalent), and apply knowledge of electronic structure to determine molecular spatial arrangement and polarity.

Name
8.Analyze how periodic properties (e.g. electronegativity, atomic and ionic radii, ionization energy, electron affinity, metallic character) and reactivity of elements results from electron configurations of atoms.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1215 Intermediate Algebra or higher, or a Math Placement Exam score adequate to enroll in higher MATH

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 111G

CHEM 1216 - General Chemistry

General

Subject code	Course Number	Course Title
CHEM	1216	General Chemistry

Description
This course explores all the realms of basic chemistry. Students will examine and explore such topics as the periodic table, the structure of atoms and molecules, chemical properties, chemical reactions, chemical equations, bonding, chemical equilibrium and scientific laboratory procedures. Laboratory exercises are included. Provides lab.

General Education Course
Academic

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 115

CHEM 1225G - General Chemistry II Lecture and Laboratory for STEM Majors

General

Subject code	Course Number	Course Title
CHEM	1225G	General Chemistry II Lecture and Laboratory for STEM Majors

Description
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.

General Education Course
Area III, Academic

Learning Outcomes

Name
1.Explain the intermolecular attractive forces that determine physical properties and phase transitions, and apply this knowledge to qualitatively evaluate these forces from structure and to predict the physical properties that result.

Name
2.Calculate solution concentrations in various units, explain the effects of temperature, pressure and structure on solubility, and describe the colligative properties of solutions, and determine solution concentrations using colligative property values and vice versa.

Name
3.Explain rates of reaction, rate laws, and half-life, determine the rate, rate law and rate constant of a reaction and calculate concentration as a function of time and vice versa, as well as explain the collision model of reaction dynamics and derive a rate law from a reaction mechanism, evaluating the consistency of a mechanism of a given rate law.

Name
4.Describe the dynamic nature of chemical equilibrium and its relation to reaction rates, and apply Le Chateliers Principle to predict the effect of concentration, pressure and temperature changes on equilibrium mixtures as well as describe the equilibrium constant and use it to determine whether equilibrium has been established, and calculate equilibrium constants from equilibrium concentrations and vice versa.

Name
5.Describe the different models of acids and base behavior and the molecular basis for acid strength, as well as apply equilibrium principles to aqueous solutions, including acid base and solubility reactions, and calculate pH and species concentrations in buffered and unbuffered solutions.

Name
6.Explain titration curves and speciation diagrams, as well as calculate concentrations of reactants from the former and determine dominant species as a function of pH from the latter.

Name
7.Explain and calculate the thermodynamic functions, enthalpy, entropy and Gibbs free energy, for a chemical system, and relate these functions to equilibrium constants and reaction spontaneity; balance redox equations, express them as two half reactions and evaluate the potential, free energy and equilibrium K for the reaction, as well as predict the spontaneous direction.

Name
8.Construct a model of a galvanic or electrolytic cell; or describe organic reactions.

Name
9.Describe bonding theories, such as valence and molecular orbital theory.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 112G

CHEM 1226 - General Chemistry II

General

Subject code	Course Number	Course Title
CHEM	1226	General Chemistry II

Description
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/Lab will introduce students to techniques for obtaining and analyzing experimental observations pertaining to chemistry using diverse methods and equipment. (3+3P)

Learning Outcomes

Name
1. Describe the colligative properties of solutions and explain them using intermolecular forces. Determine solution concentrations using colligative property values and vice versa.

Name
2. Explain rates of reactions, rate laws, and half-life; determine the rate, rate law and rate constant of a reaction and calculate concentration as a function of time and vice versa. Understand the principle of catalysis.

Name
3. Explain the collision model of reaction dynamics, including activation energy, catalysts and temperature; Derive a rate law from a reaction mechanism and evaluate the consistency of a mechanism with a given rate law.

Name
4. Describe the dynamic nature of chemical equilibrium and its relation to reaction rates; apply Le Chateliers Principle to predict the effect of concentration, pressure and temperature changes on equilibrium mixtures.

Name
5. Describe the equilibrium constant and use it to determine whether equilibrium has been established; calculate equilibrium constants from equilibrium concentrations (including pressures) and vice versa.

Name
6. Describe the different models of acids and base behavior, and the molecular basis for acid strength.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEM1216 General Chemistry

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 116

CHEM 2111 - Explorations in Chemistry

General

Subject code	Course Number	Course Title
CHEM	2111	Explorations in Chemistry

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Understand how to use the road map for the B.S. or B.A. in Chemistry to develop a curriculum plan toward degree completion.

Name
2. Become familiar with Chemistry and related student organizations for potential participation.

Name
3. Understand the breadth of available undergraduate research opportunities and related training programs.

Name
4. Identify potential career paths for students graduating with a degree in Chemistry.

Name
5. Become familiar with resources available for exploring current topics in Chemistry.

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 242

CHEM 2115 - Survey of Organic Chemistry and Laboratory

General

Subject code	Catalog Code	Course Number	Course Title
CHEM	CHEM 2115C	2115	Survey of Organic Chemistry and Laboratory

Description
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. (3+3P)
Provides lab.

General Education Course
Academic

Learning Outcomes

Name
1.Identify common organic functional groups.

Name
2.Translate between the IUPAC names and structures of simple organic molecules.

Name
3.Predict the products of certain organic chemical reactions from reagents and conditions presented.

Name
4.Predict physical and chemical behavior of organic molecules based on structure.

Name
5.Synthesize several classes of organic compounds in the laboratory that were previously studied in the lecture component of this course.

Name
6.Recognize and name the four basic bioorganic units and certain of their derivatives and macromolecules.

Name
7.Construct 3 dimensional models of organic compounds.

Name
8.Understand and apply safety principles associated with Organic Chemistry laboratory operations and activities.

Name
9.Present experimental results in laboratory reports of appropriate length, style and depth, or through other modes as required.

Name
10.Draw/recognize stereochemistry and explain its relevance to bioorganic molecules.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEM1225G General Chemistry II Lecture and Laboratory for STEM Majors or CHEM1226 General Chemistry II

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 211

CHEM 2120 - Integrated Organic Chemistry and Biochemistry

General

Subject code	Course Number	Course Title
CHEM	2120	Integrated Organic Chemistry and Biochemistry

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Identify and name basic organic compounds.

Name
2.Construct/draw organic compounds from the names.

Name
3.Predict the products of certain organic chemical reactions from reagents and conditions presented.

Name
4.Recognize and name the four basic bioorganic units and certain of their derivatives and macromolecules.

Name
5.Compare and contrast the function and location of the four bioorganic units and their macromolecules and cofactors.

Name
6.Draw/recognize stereochemistry and explain its relevance to bioorganic molecules.

Name
7.Discuss the pathways and functions of some of the cellular metabolic processes.

Name
8.Recognize and describe metabolic cellular processes and macromolecular structure with respect to health and/or disease states.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEM1120G Introduction to Chemistry Lecture and Laboratory (non majors) or CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 210

CHEM 2226 - General Chemistry III

General

Subject code	Course Number	Course Title
CHEM	2226	General Chemistry III

Description
Quantitative aspects of general chemistry: solid state structure, equilibrium, thermodynamics, and kinetics. Required of chemical science majors who have taken CHEM 1215G/1225G.

General Education Course
Academic

Learning Outcomes

Name
1.Describe the process of scientific inquiry.

Name
2.Solve problems scientifically.

Name
3.Communicate scientific information.

Name
4.Apply quantitative analysis to scientific problems.

Name
5.Apply scientific thinking to real world problems.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHEM1225G General Chemistry II Lecture and Laboratory for STEM Majors

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 217

CHEM 2991 - Directed Research in Chemistry

General

Subject code	Course Number	Course Title
CHEM	2991	Directed Research in Chemistry

Description
Techniques and procedures of chemical research. (3+9P)
Repeatable: for a maximum of 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 241

CHEM 2996 - Topics in Chemistry

General

Subject code	Course Number	Course Title
CHEM	2996	Topics in Chemistry

Description
Specific subjects in Chemistry. These subjects will be announced in the Schedule of Classes.
Repeatable: under different topics for a maximum of 12 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
CHEM 251

CHIN 1110 - Mandarin Chinese I

General

Subject code	Course Number	Course Title
CHIN	1110	Mandarin Chinese I

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Approach a novice-mid proficiency (ACTFL) in speaking, listening, reading, writing, as well as to develop their cultural awareness.

Name
2. Demonstrate knowledge of the phonetic system in Mandarin Chinese.

Name
3. Pronounce Chinese pinyin in correct tones.

Name
4. Demonstrate the mastery of the most commonly used characters (approximately 400-500).

Name
5. Understand basic Chinese grammatical concepts.

Name
6. Use basic Mandarin vocabulary, introductory phrases and sentences in both oral and written forms.

Name
7. Understand greetings in China, countries and nationalities, Chinese family values, hobbies, and being someone's guest in China.

Name
8. Apply the language to greet each other, identify countries and nationalities, talk about his/her family, discuss important dates, talk about hobbies, and visit a friend in China.

Name
9. Develop basic reading and writing skills in Chinese.

Name
10. Develop initial understanding of Chinese culture, compare aspects of different cultures, make connections to their daily life, and build links among communities.

Common Course Numbering Crosswalk

Past Course Numbers
CHIN 111

CHIN 1120 - Mandarin Chinese II

General

Subject code	Course Number	Course Title
CHIN	1120	Mandarin Chinese II

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Maintain a novice-mid and approach a novice-high proficiency (ACTFL) in speaking, listening, reading and writing, as well as to enhance their cultural awareness.

Name
2.Demonstrate continued mastery of the four tones used in Mandarin Chinese.

Name
3.Demonstrate continued mastery of the most commonly used characters (approximately 500-600).

Name
4.Apply basic grammatical concepts and structures, and begin exploring intermediate grammatical concepts.

Name
5.Demonstrate continued growth in vocabulary and expressions necessary for conversation in and about real life situations.

Name
6.Understand basic phone calls, discussion of studies, school life, shopping and transportation.

Name
7.Apply the language to make simple phone calls, discuss studies, talk about school life, go shopping and use transportation.

Name
8.Continue developing basic reading and writing skills in Chinese.

Name
9.Develop further understanding of Chinese culture, compare aspects of different cultures, make connections to their daily life, and build links among communities.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHIN1110 Mandarin Chinese I

Common Course Numbering Crosswalk

Past Course Numbers
CHIN 112

CHIN 2110 - Mandarin Chinese III

General

Subject code	Course Number	Course Title
CHIN	2110	Mandarin Chinese III

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Maintain a novice-high and approach an intermediate-low proficiency (ACTFL) in speaking, listening, reading and writing, as well as to enhance their cultural understanding.

Name
2.Pronounce the four tones used in Mandarin Chinese comfortably.

Name
3.Demonstrate continued mastery of the most commonly used characters (approximately 600-800).

Name
4.Apply intermediate grammatical concepts and structures.

Name
5.Demonstrate continued growth in vocabulary and expressions in a variety for conversation in and about real life situations.

Name
6.Understand topics including but not limited to simple weather reports, dinning, directions, birthday party stories, and seeing a doctor.

Name
7.Apply the language to talk about weather, order food, ask and give directions, describe birthday parties, and see a doctor (these are suggested topics, no intention to limit the topic range).

Name
8.Continue developing paragraph-length reading and writing skills in Chinese.

Name
9.Deepen understanding of Chinese culture, compare aspects of different cultures, make further connections to their daily life, and build stronger links among communities.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHIN1120 Mandarin Chinese II

Common Course Numbering Crosswalk

Past Course Numbers
CHIN 211

CHIN 2120 - Mandarin Chinese IV

General

Subject code	Course Number	Course Title
CHIN	2120	Mandarin Chinese IV

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Maintain an intermediate-low and approach an intermediate-mid proficiency (ACTFL) in speaking, listening, reading and writing, as well as to strengthen their cultural understanding.

Name
2.Pronounce the four tones used in Mandarin Chinese fluently.

Name
3.Demonstrate continued mastery of the most commonly used characters (approximately 800-1000).

Name
4.Apply more intermediate grammatical concepts and structures.

Name
5.Demonstrate continued growth in vocabulary and expressions in a variety for conversation in and about real life situations as well as simple academic settings.

Name
6.Demonstrate language skills that would help them travel or live in China.

Name
7.Understand topics including but not limited to dating, renting an apartment, sports, traveling, conversations at an airport.

Name
8.Apply the language to extend/ decline invitations, rent an apartment, talk about sports, travel, check in and arrive at an airport (these are suggested topics, no intention to limit the topic range).

Name
9.Continue developing multiple-paragraph-length reading and writing skills in Chinese.

Name
10.Deepen understanding of Chinese culture, compare aspects of different cultures, make further connections to their daily life, and build stronger links among communities.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CHIN2110 Mandarin Chinese III

Common Course Numbering Crosswalk

Past Course Numbers
CHIN 212

CIST 1110 - Introduction to Operating Systems

General

Subject code	Course Number	Course Title
CIST	1110	Introduction to Operating Systems

Description
This course offers a comprehensive introduction to operating systems, covering topics such as process and memory management, file systems, I/O systems, security, mobile computing, and networking. With a focus on Windows-based systems, students will learn the implementation, configuration, installation, and maintenance of operating systems, gaining a deeper understanding of current systems.

General Education Course
Technical

Learning Outcomes

Name
1. Identify and explain computer hardware including the components of a computer system and its functions.

Name
2. Install, configure, and troubleshoot hardware components such as CPUs, RAM, motherboards, hard drives, and expansion cards.

Name
3. Identify and explain the different types of computer operating systems, including Windows, macOS, and Linux, and their respective features and functions.

Name
4. Install, configure, and troubleshoot operating systems and software applications, and use various system tools and utilities to diagnose and resolve common hardware and software issues.

Name
5. Understand and implement basic networking concepts, including IP addressing, subnetting, and network protocols.

Name
6. Implement security concepts, including user authentication, access controls, firewalls, encryption and resolve common security threats and vulnerabilities.

CIST 1115 - Principles of Computer Science Information Systems

General

Subject code	Course Number	Course Title
CIST	1115	Principles of Computer Science Information Systems

Description
This course is an introduction to the fundamental concepts and terminology in the computing field, including computer history, algorithms, computer architecture, programming languages, applications, social issues, and ethics. It covers both computer science and computer information systems and aims to prepare students for further studies in these disciplines. Students should have prior knowledge of basic computer usage and software, such as MS Word, MS Excel, Power BI, and the Internet. Additionally, the course may cover topics such as problem-solving, computer organization, and information assurance.

General Education Course
Technical

Learning Outcomes

Name
1. Understand the fundamental concepts and terminology of computer science and computer information systems, including computer history, algorithms, and computer architecture.

Name
2. Analyze and apply problem-solving strategies to different computing problems using various programming languages.

Name
3. Evaluate and assess the social and ethical implications of computing technologies.

Name
4. Describe and differentiate between various computer applications, software, and hardware components.

Name
5. Understand the importance of information assurance and security in the computing field.

Name
6. Apply the knowledge gained from this course to further studies and future career paths in the computing field.

CIST 1217 - Overview of Web Technologies

General

Subject code	Course Number	Course Title
CIST	1217	Overview of Web Technologies

Description
Identify the markup, style, and coding languages common to web development. Apply HTML and Cascading Style Sheets (CSS) to create web documents. Use a content management system to develop a website. Distinguish between browser and server-side coding. Explore the interactions between the web server, network, and web browser.

CIST1261 - JavaScript Web Programming

General

Subject code	Catalog Code	Course Number	Course Title
CIST	CIST 1261	1261	JavaScript Web Programming

Description
Use JavaScript libraries and frameworks including jQuery to implement web widgets and validate form data. Create interactive web pages with JavaScript manipulation of HTML and CSS. Use AJAX and other technologies for browser-to-server interactions.

CIST1261 - JavaScript Web Programming

General

Subject code	Catalog Code	Course Number	Course Title
CIST	CIST 1261	1261	JavaScript Web Programming

Description
Use JavaScript libraries and frameworks including jQuery to implement web widgets and validate form data.
Create interactive web pages with JavaScript manipulation of HTML and CSS. Use AJAX and other technologies
for browser-to-server interactions.

General Education Course
Technical Courses

Learning Outcomes

Name	Objective
1. Describe JavaScript, browser, and HTML DOM objects.	1. Describe JavaScript, browser, and HTML DOM objects.

Name	Objective
2. Implement control structures, expressions, and functions.	2. Implement control structures, expressions, and functions.

Name	Objective
3. Demonstrate declaring variables, calculating values and displaying the results.	3. Demonstrate declaring variables, calculating values and displaying the results.

Name	Objective
4. Analyze and debug an application.	4. Analyze and debug an application.

Name	Objective
5. Utilize JavaScript Frameworks and Libraries.	5. Utilize JavaScript Frameworks and Libraries.

Prerequisites/Corequisites

No Requirements

CIST1263 - PHP Web Programming

General

Subject code	Course Number	Course Title
CIST	1263	PHP Web Programming

Description

Use PHP/MySQL libraries and frameworks to develop dynamic database-driven websites. Explore a range of
PHP solutions including image management, network socket data transfer, and XML parsing.

Learning Outcomes

Objective
1. Create functions and PHP control structures.

Objective
2. Formulate PHP variables.

Objective
3. Operate databases with PHP.

Objective
4. Apply query strings, cookies and sessions to state information.

Prerequisites/Corequisites

Free Form Requirements

Pre-requisites: CIST1217 Overview of Web Technologies - Overview of Web Technologies

CIST 1411 - Introduction to Networks

General

Subject code	Course Number	Course Title
CIST	1411	Introduction to Networks

Description

An introduction to the TCP/IP and OSI networking models and concepts for implementing those models in Wide Area and Local Area Networks. TCP/IP network fundamentals will be presented. Topics include network device configuration, IPv4 and IPv6 network addressing, basic security administration and network troubleshooting principles. This course uses the Cisco Networking Academy curriculum and is preparation for current industry certifications.

CIST 1412 - Network Device Configuration

General

Subject code	Course Number	Course Title
CIST	1412	Network Device Configuration

Description

This course covers the architecture, components, and operations of routers and switches in a small network and introduces wireless local area networks (WLAN) and security concepts. Students learn how to configure routers and switches, perform basic network configuration and troubleshooting, identify and mitigate LAN security threats, configure static and dynamic addressing, and configure and secure a basic WLAN. This course uses the Cisco Networking Academy curriculum and is preparation for current industry certifications.

CIST 1413 - Network Administration Concepts

General

Subject code	Course Number	Course Title
CIST	1413	Network Administration Concepts

Description

Students will learn to design, configure, and troubleshoot various types of networks, implement security measures to protect network assets, analyze network protocols and services, diagnose network issues, and monitor network performance. Students will engage in hands-on/virtual lab exercises, performance-based assessments, and written assessments to apply their knowledge and skills. Upon completion of this course, students will be equipped for a successful career in network administration. The course aligns with the domains and objectives of the CompTIA Network+ and TestOut Network Pro certification exams.

CIST 1680 - Linux Essentials

General

Subject code
CIST

Course Number
1680

Course Title
Linux Essentials

Description
Introduces the Linux operating system with emphasis on command line application. Students will learn management of the Linux file system, processes, storage devices, users and groups. Learning objectives also include configuration of boot activity, network, and printers.

General Education Course
Technical

Learning Outcomes

Name
1. Install and maintain Linux operating systems.

Name
2. Locate Help resources in the Linux operating systems.

Name
3. Use the package management utility to administer the Linux operating systems.

Name
4. Explain the fundamental properties of the shell.

Name
5. Administrate Linux operating systems using Command Line Interface (CLI) and Graphic User Interface (GUI).

CIST 1996 - Special Topics in Computer Information System Technology

General

Subject code
CIST

Course Number
1996

Course Title
Special Topics in Computer Information System Technology

Description
Varies.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

CIST 2210 - Introduction to SQL (Structured Query Language)

General

Subject code
CIST

Course Number
2210

Course Title
Introduction to SQL (Structured Query Language)

Description
Introduction to Structured Query Language (SQL) within the context of an Oracle database. Students will create basic and complex queries (joining, sub-queries, aggregate functions, grouping data) and learn to manipulate data using insert, update and delete statements. Students will create tables, views, and constraints and benefit by learning the industry standards while utilizing the latest database software and online training materials. This course also prepares students to pass the 1st Oracle Associate Certification Test.

CIST 2215 - iPhone Programming with Swift

General

Subject code
CIST

Course Number
2215

Course Title
iPhone Programming with Swift

Description
Swift is a programming language created by Apple for building apps for iOS, Mac, Apple TV and Apple Watch. Students will learn to develop apps using the Swift language. The course is taught with Apple Equipment. Students can use their own equipment or check out the appropriate hardware.

General Education Course
Technical

Learning Outcomes

Name
1. Use the Apples IDE for IOS development in the Swift language.

Name
2. Implement Model-View-Controller Design Pattern.

Name
3. Design, implement, test, and deploy a fully featured, graphically rich IOS phone application that creates persistent data.

Name
4. Implement common and advanced controls, such as UITableView, CollectionViews, AutoLayout and StackView.

Name
5. Use JSON or XML data to download data from a web site to display in an app.

Name
6. Create an application that reads a list of views from a site on the Web, stores it persistently on the device, downloads selected image data and displays it to the user.

CIST 2251 - Python Programming II

General

Subject code	Course Number	Course Title
CIST	2251	Python Programming II

Description
In this course, students will take Python machine learning ideas and create serverless web applications accessible by anyone with an Internet connection. Students will work through a series of common Python data science problems in an increasing order of complexity. Students will learn to create a web application around numerical or categorical predictions, Machine Learning tools like TensorFlow, understand the analysis of text, create powerful and interactive presentations, serve restricted access to data, and leverage web plugins to accept credit card payments and donations.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate how to use Serverless Technologies.

Name
2. Demonstrate how to use client-side intelligence using regression coefficients.

Name
3. Demonstrate how to use Real-Time Intelligence with Logistic Regression.

Name
4. Demonstrate how to use Pretrained Intelligence with Gradient Boosting Machine.

Name
5. Demonstrate how to Support Both Web and Mobile Browsers.

Name
6. Demonstrate how to Display Predictions with Google Maps.

Name
7. Demonstrate how to Forecast with Naive Bayes and OpenWeather.

Name
8. Demonstrate how to use Interactive Drawing Canvas and Digit Predictions Using TensorFlow.

Name
9. Demonstrate how to display dynamic charts.

Name
10. Demonstrate how to use Recommending with Singular Value Decomposition.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CSCI1220 Computer Programming Fundamentals: Python

CIST 2620 - Windows Server Administration

General

Subject code	Course Number	Course Title
CIST	2620	Windows Server Administration

Description
This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Window Servers(s). It provides in-depth, hands-on training for IT professionals responsible for the planning, implementation, management, and support of Windows Server operating systems(s). Assists in preparation for the Microsoft certification.

CIST 2811 - Foundations of Security

General

Subject code	Course Number	Course Title
CIST	2811	Foundations of Security

Description
This course is a study of encryption technologies, system and network security, firewall implementation, intrusion detection and prevention. It also covers operating system, user account, and file resource security, assessing risk, auditing, and security control procedures.

CIST2816 - Penetration Testing

General

Subject code	Catalog Code	Course Number	Course Title
CIST	CIST 2816	2816	Penetration Testing

Description
This hands-on course focuses on offense through penetration testing and vulnerability assessment. Students will learn penetration testing, and vulnerability assessment and management skills necessary to determine the resiliency of the network against attacks. Students will also learn skills required to customize assessment frameworks to effectively collaborate on and report findings. May be preparation for an industry certification exam.

CIST2816 - Penetration Testing

General

Subject code	Catalog Code	Course Number	Course Title
CIST	CIST 2816	2816	Penetration Testing

Description
This hands-on course focuses on offense through penetration testing and vulnerability assessment. Students will learn penetration testing, and vulnerability assessment and management skills necessary to determine the resiliency of the network against attacks. Students will also learn skills required to customize assessment frameworks to effectively collaborate on and report findings. May be preparation for an industry certification exam.

General Education Course
Technical Courses

Learning Outcomes

Name	Objective
1. Explain the importance of planning for an engagement	1. Explain the importance of planning for an engagement.

Name	Objective
2. Conduct information gathering using appropriate techniques	2. Conduct information gathering using appropriate techniques.

Name	Objective
3. Compare and contrast social engineering attacks	3. Compare and contrast social engineering attacks.

Name	Objective
4. Recommend mitigation strategies for discovered vulnerabilities	4. Recommend mitigation strategies for discovered vulnerabilities.

Name	Objective
5. Explain the importance of communication during the penetration testing process.	5. Explain the importance of communication during the penetration testing process

Prerequisites/Corequisites

No Requirements

CIST2860 - Digital Forensics and Incident Response

General

Subject code	Catalog Code	Course Number	Course Title
CIST	CIST 2860	2860	Digital Forensics and Incident Response

Description
This course offers students a structured approach to the field of computer forensics and the analysis of digital
evidence. Through a combination of theoretical knowledge and hands-on practical exercises, students will
develop the skills necessary to conduct effective computer forensic investigations. The course will cover
various forensic investigation techniques and utilize standard forensic tools to successfully gather, preserve
and analyze digital evidence. This class prepares students for a position as a cybersecurity incident handler.

CIST2860 - Digital Forensics and Incident Response

General

Subject code	Catalog Code	Course Number	Course Title
CIST	CIST 2860	2860	Digital Forensics and Incident Response

Description
This course offers students a structured approach to the field of computer forensics and the analysis of digital
evidence. Through a combination of theoretical knowledge and hands-on practical exercises, students will
develop the skills necessary to conduct effective computer forensic investigations. The course will cover
various forensic investigation techniques and utilize standard forensic tools to successfully gather, preserve
and analyze digital evidence. This class prepares students for a position as a cybersecurity incident handler.

General Education Course
Technical Courses

Learning Outcomes

Name	Objective
1. Understand core concepts in digital forensics, incident response and chain of custody.	1. Understand core concepts in digital forensics, incident response and chain of custody.

Name	Objective
2. Execute data analysis for forensic or incident purposes.	2. Execute data analysis for forensic or incident purposes.

Name	Objective
3. Explain the relationship between digital forensics and incident response.	3. Explain the relationship between digital forensics and incident response.

Name	Objective
4. Conduct and report on system investigations across different platforms.	4. Conduct and report on system investigations across different platforms.

Name	Objective
5. Apply cryptographic hash functions to forensic artifacts.	5. Apply cryptographic hash functions to forensic artifacts.

Name	Objective
6. Employ steganography for data hiding and recovery in media files.	6. Employ steganography for data hiding and recovery in media files.

Prerequisites/Corequisites

Free Form Requirements
Pre-requisite(s): CIST 2881 Cybersecurity Fundamentals

CIST2881 - Cybersecurity Fundamentals

General

Subject code	Catalog Code	Course Number	Course Title
CIST	CIST 2881	2881	Cybersecurity Fundamentals

Description
This course covers a range of topic including network and computer security, general security concepts, communication security, infrastructure security, operational and organizational security, encryption technologies, system and network security types of attacks, risk management, intrusion detection and prevention, assessing risk, auditing, and security control procedures. The course is designed to prepare students for an industry certification exam.

General Education Course
Technical Courses

Learning Outcomes

Name	Objective
1. Identify and mitigate various types of security threats, such as malware, social engineering, and network attacks.	1. Identify and mitigate various types of security threats, such as malware, social engineering, and network attacks.

Name	Objective
2. Utilize security technologies, including firewalls, intrusion detection and prevention systems, and VPNs, to secure a network.	2. Utilize security technologies, including firewalls, intrusion detection and prevention systems, and VPNs, to secure a network.

Name	Objective
3. Implement security principles and practices in the design and implementation of secure networks and systems.	3. Implement security principles and practices in the design and implementation of secure networks and systems.

Name	Objective
4. Manage user authentication, authorization, and access control to secure sensitive data.	4. Manage user authentication, authorization, and access control to secure sensitive data.

Name	Objective
5. Respond to security incidents and have a disaster recovery plan in place.	5. Respond to security incidents and have a disaster recovery plan in place.

CIST2881 - Cybersecurity Fundamentals

General

Subject code	Catalog Code	Course Number	Course Title
CIST	CIST 2881	2881	Cybersecurity Fundamentals

Description
This course covers a range of topic including network and computer security, general security concepts, communication security, infrastructure security, operational and organizational security, encryption technologies, system and network security types of attacks, risk management, intrusion detection and prevention, assessing risk, auditing, and security control procedures. The course is designed to prepare students for an industry certification exam.

CIST 2887 - Ethical Hacking

General

Subject code	Course Number	Course Title
CIST	2887	Ethical Hacking

Description
This course introduces the essential concepts and practices of ethical hacking. Students will learn to use various ethical hacking tools and techniques to assess the security posture of a network and identify potential vulnerabilities that could be exploited by malicious actors. The course is based on the EC Council Ethical Hacking ECH Version 12 and TestOut Ethical Hacker Pro certification exam

domains/objectives. By the end of the course, students will have a solid understanding of network security threats and vulnerabilities, and the ability to perform a comprehensive security assessment of a network. The course is suitable for students interested in pursuing a career in cybersecurity or who want to improve their understanding of network security and ethical hacking.

CIST 2999 - Computer Technology Capstone

General

Subject code
CIST

Course Number
2999

Course Title
Computer Technology Capstone

Description
Varies

CJUS 1110G - Introduction to Criminal Justice

General

Subject code
CJUS

Course Number
1110G

Course Title
Introduction to Criminal Justice

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1.Describe the history, structure and function of the criminal justice system in the United States.

Name
2.Discuss the role of law enforcement, court systems, corrections, and security in maintaining social order.

Name
3.Identify and describe crime causation theories, various measures of crime and their reliability and victimization theories.

Name
4.Relate fundamental principles, concepts and terminology used in criminal justice to current events.

Name
5.Apply basic analytical and critical thinking skills in evaluating criminal justice issues, policies, trends and disparities.

Common Course Numbering Crosswalk

Past Course Numbers
C J 101G

CJUS 1120 - Criminal Law

General

Subject code
CJUS

Course Number
1120

Course Title
Criminal Law

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Explain the concepts of substantive criminal liability in the United States, including actus reas, mens rea, causation, concurrence, and parties to crime.

Name
2.Define the differences between criminal law and civil law in the United States.

Name
3.Demonstrate basic knowledge of legal terminology as it relates to criminal law.

Name
4.Identify the elements of crimes against persons, property, public order and the administration of justice, public morality, and the inchoate crimes.

Name
5.Describe the various defenses to crimes.

Common Course Numbering Crosswalk

Past Course Numbers
C J 205

CJUS 1996 - Topics in Criminal Justice

General

Subject code	Course Number	Course Title
CJUS	1996	Topics in Criminal Justice

Description
Specific subjects to be announced in the Schedule of Classes.
Repeatable: under different topics for a maximum of 6 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
C J 199

CJUS 2120 - Criminal Courts and Procedure

General

Subject code	Course Number	Course Title
CJUS	2120	Criminal Courts and Procedure

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Explain the application of the Constitutional Amendments that apply to criminal justice.

Name
2.Explain and describe the dual court system in the U.S. and how courts enforce the rule of law.

Name
3.Identify and list the duties and requirements of the courtroom workgroup.

Name
4.Describe courtroom procedures, rules of the court, and due process of law.

Name
5.Articulate basic knowledge of the U.S. criminal court system.

Name
6.Define legal terms.

Name
7.Explain the use of discretion in criminal procedure.

Name
8.Differentiate the role of courts of limited jurisdiction, courts of general jurisdiction, and the appellate courts in the processing of criminal cases.

Common Course Numbering Crosswalk

Past Course Numbers
C J 250

CJUS 2140 - Criminal Investigations

General

Subject code	Course Number	Course Title
CJUS	2140	Criminal Investigations

Description
This course introduces criminal investigations within 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.

General Education Course
Academic

Learning Outcomes

Name
1.Identify developments in investigation technology.

Name
2.Identify common types of criminal investigations and their key components.

Name
3.Apply proper crime scene investigative protocols.

Name
4.Explain proper evidentiary gathering and handing procedures, and utilize various interviewing techniques.

Name
5.Identify and compare different law enforcement agencies and the role they play in criminal investigations.

Name
6.Describe proper collection, evidence preservation, documentation, and court presentation.

Name
7.Develop effective search authorization.

Common Course Numbering Crosswalk

Past Course Numbers
C J 221

CJUS 2150 - Corrections System

General

Subject code	Course Number	Course Title
CJUS	2150	Corrections System

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Describe the purposes of the corrections system and the issues facing the corrections system.

Name
2.Explain the components of the corrections system and describe their functions.

Name
3.Compare and contrast the different forms of correction practices.

Name
4.Explain the goals of corrections, the different factors affecting the sentencing process, the legal rights of prisoners, and the issues concerning prison violence.

Name
5.Explain the impact of reentry into society.

Name
6.Identify the issues concerning capital punishment.

Name
7.Describe the effectiveness of various correction programs on offenders.

Common Course Numbering Crosswalk

Past Course Numbers
C J 230

CJUS 2160 - Field Experience in Criminal Justice

General

Subject code	Course Number	Course Title
CJUS	2160	Field Experience in Criminal Justice

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Obtain practical experience by observing, researching, and working in a criminal justice agency.

Name
2.Apply the knowledge of principles, theories, and methods that were learned in the classroom to situation in which field experience will be devoted.

Name
3.Instill an understanding for general and specific problems that criminal justice agencies encounter on a daily basis.

Name
4.Develop a professional work ethic and attitudes, including reliability, professional responsibility, and the ability to work cooperatively with others.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CJUS1110G Introduction to Criminal Justice

Common Course Numbering Crosswalk

Past Course Numbers
C J 293

CJUS 2220 - The American Law Enforcement System

General

Subject code	Course Number	Course Title
CJUS	2220	The American Law Enforcement System

Description
This course covers the historical and philosophical foundations of law and order, with an in-depth examination of the various local, state, and federal law enforcement agencies and how they interact within the criminal justice system.

General Education Course
Academic

Learning Outcomes

Name
1.Discuss, evaluate, and analyze the role of police in the democratic society today, and the historical development of modern day law enforcement

Name
2.Define and explain the different types of community policing and the valid reasons behind their application within a community

Name
3.List and discuss the ways to overcome the barriers to change within a police organization, good recruitment, screening, and retention of employees

Name
4.Analyze and discuss the history of and the different types of police patrol, as well as the use of force and deadly force, and methods used for controlling police behavior

Name
5.Describe and discuss the different types of police behavior, potential oversight, and remedy and their limitations

Name
6.List and discuss the benefits of higher and continued education, along with the minimum educational requirements for police officers

Name
7.Evaluate and discuss the reasons for police stress and the methods of dealing with stressors

Name
8.Interpret current court cases, both state and federal, that affect police procedures

Common Course Numbering Crosswalk

Past Course Numbers
C J 210

CNST 1110 - General Carpentry or Building Trades I

General

Subject code	Course Number	Course Title
CNST	1110	General Carpentry or Building Trades I

Description
This course will have two components: a classroom segment, where carpentry concepts will be explored, and a hands-on segment where students will be able to participate in the actual construction of a structure. Habitat for Humanity has generously offered one of their projects as a "hands-on" site.

General Education Course
Technical

Learning Outcomes

Name
1. Identify and define various elements of a Structural Wood Wall.

Name
2. Build Structural and non-load bearing Walls and Partitions using OSHA compliant safety practices.

Name
3. Size floor joists and roof rafters according to local building codes.

Name
4. Hang and Trim Out Doors and Windows for Residential Construction Projects

Name
5. Choose construction project foundations.

CNST 1120 - Construction Drawings

General

Subject code	Course Number	Course Title
CNST	1120	Construction Drawings

Description
An introduction to the various construction documents with symbols. Emphasizing extraction of information and specifications from drawings.

General Education Course
Technical

Learning Outcomes

Name
1. Interpret construction documents.

Name
2. Identify and navigate the basic views commonly displayed in a technical drawings.

Name
3. Identify and describe common components on construction documents.

Name
4. Demonstrate the use of measuring devices.

Name
5. Use appropriate construction terminology.

CNST 1170 - Construction Methods I

General

Subject code	Course Number	Course Title
CNST	1170	Construction Methods I

Description
This course will focus on carpentry industry, skills, materials, drawings, and documents. Overall safety will be addressed, including the use of hand and power tools. An applied course in foundation, footing, and stem-wall construction. Other topics include cutting and assembly of structural material for floor, wall, and roof systems in accordance with the International Building Code (IBC).

General Education Course
Technical

Learning Outcomes

Name
1. Identify the skills, responsibilities, and job opportunities in carpentry.

Name
2. Explain safety hazards and hazard mitigation in carpentry.

Name
3. Identify various materials and calculate materials needed for a given construction drawing.

Name
4. Demonstrate correct installation and fastening of common building materials in carpentry.

Name
5. Safely use hand and power tools common to carpentry.

Name
6. Interpret common carpentry construction documents.

CNST 1270 - Construction Methods II

General

Subject code	Course Number	Course Title
CNST	1270	Construction Methods II

Description
This course is a continuation in construction methods and will focus on both Commercial & Residential carpentry. The proper safety use of hand and power tools will continue in the new subject areas. The student will enhance their skills in the installation of exterior wall and roof finishes, windows, and doors in accordance with the International Building Code (IBC). Students also practice insulation techniques, drywall installation, taping and texture of drywall, trim work, and other finish work in a safety-focused environment.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate the correct methods for measuring, to identify the correct materiel to installed.

Name
2. Identify various materials that are needed per the drawing blueprint. (Take off List).

Name
3. Demonstrate correct installation and fastening of common building materials in commercial and residential carpentry.

Name
4. Safely use hand and power tools common in commercial carpentry.

Name
5. Interpret common commercial/ residential carpentry construction documents.

CNST 2995 - Construction Co-op

General

Subject code	Course Number	Course Title
CNST	2995	Construction Co-op

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

CNST 2996 - Topics in Constructions

General

Subject code	Course Number	Course Title
CNST	2996	Topics in Constructions

Description
Varies.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

CNST 2997 - Special Problems in Building Technology

General

Subject code	Course Number	Course Title
CNST	2997	Special Problems in Building Technology

Description
Varies

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

COMM 1115G - Introduction to Communication

General

Subject code	Course Number	Course Title
COMM	1115G	Introduction to Communication

Description
This survey course introduces the principles of communication in the areas of interpersonal, intercultural, small group, organizational, public speaking, and mass and social media. (1+2P) Repeatable: up to 3 credits.

General Education Course
Area I, Academic

Learning Outcomes

Name
1. Describe basic communication terms, forms and concepts.

Name
2. Identify basic communication research methods and theories.

Name
3. Explain the significance of ethics and diversity in communication processes.

Name
4. Apply various concepts and skills in multiple communication contexts.

Common Course Numbering Crosswalk

Past Course Numbers
COMM 265G

COMM 1130G - Public Speaking

General

Subject code	Course Number	Course Title
COMM	1130G	Public Speaking

Description
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.

General Education Course
Area I, Academic

Learning Outcomes

Name
1. Demonstrate effective speech preparation.

Name
2. Demonstrate effective speech delivery through use of language, nonverbal elements and the creation of presentation aids.

Name
3. Analyze a potential audience and tailor a speech to that audience.

Name
4. Evaluate presentations according to specific criteria.

Name
5. Explain common propaganda techniques and logical fallacies, and identify them in the speeches of others.

Name
6. Recognize diversity and ethical considerations in public speaking.

Common Course Numbering Crosswalk

Past Course Numbers
COMM 253G

COMM 2110 - Communication Theory

General

Subject code	Course Number	Course Title
COMM	2110	Communication Theory

Description
This course provides an exploration of major theories, concepts and methods of research in the study of human communication.

General Education Course
Academic

Learning Outcomes

Name
1. Identify, explain, and illustrate key concepts and principles of the major traditions of communication theory.

Name
2. Analyze practical problems and situations using theories.

Name
3. Integrate research correctly and ethically from credible sources to support the primary purpose of communication.

Common Course Numbering Crosswalk

Past Course Numbers
COMM 285

COMM 2111 - Introduction to the Communication Major

General

Subject code	Course Number	Course Title
COMM	2111	Introduction to the Communication Major

Description
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 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.

General Education Course
Academic

Learning Outcomes

Name
1. To give you some knowledge about your major and this department.

Name
2. To help you learn more about the study of human communication in general and we approach it in our various courses.

Name
3. To make you comfortable with the department, its professors and graduate students, as well as staff.

Name
4. To assist you in finding important resources for earning your degree in Communication Studies with a high GPA.

Name
5. To engage you and your concerns in earning your degree.

Name
6. To advise you in ways that match your goals with the department goals.

Common Course Numbering Crosswalk

Past Course Numbers
COMM 250

COMM 2996 - Topics in Communication

General

Subject code	Course Number	Course Title
COMM	2996	Topics in Communication

Description
Specific subjects and credits to be announced in the Schedule of Classes. Repeatable: for a maximum of 12 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
COMM 291

COMM 2997 - Independent Study in Communication

General

Subject code
COMM

Course Number
2997

Course Title
Independent Study in Communication

Description
Individualized, self-paced projects for students with a special interest in communication topics.
Repeatable: for a maximum of 6 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
COMM 290

CSCI 1220 - Computer Programming Fundamentals: Python

General

Subject code
CSCI

Course Number
1220

Course Title
Computer Programming Fundamentals: Python

Description
This course is an introduction to fundamental programming concepts, with a focus on problem-solving techniques and algorithm development using the Python programming language. Students will learn how to create basic scripts, work with data types and variables, use control structures, and build functions. The course is designed for students with little or no prior experience in programming and is intended to provide a foundation in programming that can be applied in a variety of fields.

General Education Course
Technical

Learning Outcomes

Name
1. Apply programming concepts to design and develop solutions for computational problems.

Name
2. Utilize optimal flow-control strategy for solving a given problem.

Name
3. Design and implement functions to support organization, decomposition and reusability of code.

Name
4. Evaluate and select data structures to efficiently organize and store information for a given problem.

Name
5. Demonstrate the concept of scope to control access to global, local, and class variables.

Name
6. Create and use a simple class to demonstrate object-oriented programming principles.

Name
7. Utilize basic file input/output with text-based files.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1215 Intermediate Algebra or higher

CSCI 1240 - C++ Programming I

General

Subject code
CSCI

Course Number
1240

Course Title
C++ Programming I

Description
This course is an introduction to problem-solving methods and algorithm development using C++. Students will learn how to design, code, debug, and document programs. Students will explore basic programming concepts including variables, data types, operators and expressions. They will also learn how to work with the C++ preprocessor directives and libraries. Students will learn about input/output mechanisms, including command prompt interaction, reading and writing data to files. Students will be introduced to control structures such as branching, conditionals, iteration, and loops and arrays. They will also learn how to define and use functions to structure code and improve code reuse.

General Education Course
Technical

Learning Outcomes

Name
1. Implement programs which employ structured programming techniques.

Name
2. Implement control flow structures.

Name
3. Apply modularization principles by defining and using functions/methods to structure code and improve code reuse and maintainability.

Name
4. Write code utilizing data structures such as arrays, using pointers, and simple classes to provide useful access to, and operations on, data.

Name
5. Use input/output mechanisms to collect user input and display data, including implementing error handling mechanisms to handle invalid input and output operations.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1215 Intermediate Algebra or higher

CSCI 1260 - Computer Programming Fundamentals Java I

General

Subject code	Course Number	Course Title
CSCI	1260	Computer Programming Fundamentals Java I

Description
This course is an introduction to problem-solving methods and algorithm development using Java. Students will learn how to design, code, debug, and document programs. Students will explore basic programming concepts including variables, data types, operators and expressions. They will also learn how to work with the Java preprocessor directives and libraries. Students will learn about input/output mechanisms, including command prompt interaction, reading and writing data to files. Students will be introduced to control structures such as branching, conditionals, iteration, and loops and arrays. They will also learn how to define and use functions to structure code and improve code reuse.

General Education Course
Technical

Learning Outcomes

Name
1. Implement programs which employ structured programming techniques.

Name
2. Implement control flow structures.

Name
3. Apply modularization principles by defining and using functions/methos to structure code and improve code reused and maintainability.

Name
4. Write code utilizing data structures such as arrays, using pointer, and simple classes to provide useful access to, and operations on data.

Name
5. Use input/output mechanisms to handle invalid input and output operations.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1215 Intermediate Algebra or higher

CSCI 2210 - Object-Oriented Programming

General

Subject code	Course Number	Course Title
CSCI	2210	Object-Oriented Programming

Description
This course is an introduction to object-oriented programming. Including: Classes and objects, and associated topics such as constructors, properties, and methods, inheritance, polymorphism, encapsulation, abstraction, exception handling and best practices.

General Education Course
Technical

Learning Outcomes

Name
1. Implement object-oriented designs based on project requirements.

Name
2. Use encapsulation to write programs that are loosely coupled and easy to debug, maintain and modify.

Name
3. Use inheritance to define simple class hierarchies that allow code to be reused by distinct subclasses.

Name
4. Implement and reason about control flow in a program using polymorphism to solve common programming problems.

CSCI 2220 - Introduction to Data Structures and Algorithms

General

Subject code	Course Number	Course Title
CSCI	2220	Introduction to Data Structures and Algorithms

Description
Design, implement, and use fundamental abstract data types including linked lists, stacks, queues, and trees. Analyze the time and space complexity of algorithms, such as sorting.

General Education Course
Technical

Learning Outcomes

Name
1. Implement basic data structures such as linked lists, stacks, queues, and trees in a high-level programming language.

Name
2. Compare alternative implementations of data structures with respect to time and space complexity.

Name
3. Explain the advantages and disadvantages of a variety of sorting algorithms.

CSCI 2230 - Assembly Language and Machine Organization

General

Subject code	Course Number	Course Title
CSCI	2230	Assembly Language and Machine Organization

Description
Computer structure and system organization, instruction execution, memory addressing modes, hardware/software interface. Programming in assembly language.

General Education Course
Technical

Learning Outcomes

Name
1. Describe the architecture of a microcontroller, the interconnections between the components, and the major units inside the CPU.

Name
2. Use signed and unsigned numbers, bitwise operations, branching instructions, and the corresponding flags in the status register.

Name
3. Use immediate, direct, indirect addressing modes in assembly instructions.

Name
4. Map high-level programming language features to assembly instructions, such as loops, conditionals, procedure calls, value and reference parameter passing, return values, and recursion.

Name
5. Interface with input/output devices via instructions, memory addressing, or interrupts.

Name
6. Design and implement an assembly language program.

CSCI 2260 - Computer Programming Fundamentals: Java 2

General

Subject code	Course Number	Course Title
CSCI	2260	Computer Programming Fundamentals: Java 2

Description
This course is a continuation of Java object-oriented programming. This course is a deeper exploration of object-oriented programming. Including: Classes and objects, and associated topics such as constructors, properties, and methods, inheritance, polymorphism, encapsulation, abstraction, excerption handling and best practices.

General Education Course
Technical

Learning Outcomes

Name
1. Implement appropriate object-oriented designs based on project requirements.

Name
2. Use encapsulation to write programs that are loosely coupled and easy to debug, maintain, and modify.

Name
3. Use polymorphism to solve common programming problems.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CSCI1260 Computer Programming Fundamentals Java I or a Math Placement Exam score adequate to enroll in higher MATH

CSCI 2310 - Discrete Mathematics for Computer Science

General

Subject code	Course Number	Course Title
CSCI	2310	Discrete Mathematics for Computer Science

Description
Discrete mathematics required for Computer Science, including topics such as the basics of logic, number theory, methods of proof, sequences, mathematical induction, set theory, counting and functions.

General Education Course
Technical

Learning Outcomes

Name
1. Use the concept of sets and functions to reason about application domain problems.

Name
2. Apply counting principles to determine the number of various combinatorial problems.

Name
3. Use logic to specify precise meaning of statements, demonstrate the equivalence of statements, and test the validity of arguments.

Name
4. Use summations, formulas for the sum of arithmetic and geometric sequences.

Name
5. Construct and recognize valid proofs using different techniques including the principle of mathematical induction.

CSCI 2996 - Topics in Computer Science

General

Subject code	Course Number	Course Title
CSCI	2996	Topics in Computer Science

Description
Varies. Repeatable: for a maximum of 12 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

CSEC 110 - Principles of Cybersecurity

General

Subject code	Course Number	Course Title
CSEC	110	Principles of Cybersecurity

Description
Course covers contemporary trends in cybersecurity including understanding characteristics of security vulnerabilities as they relate to hardware, software, data, procedures, and user actions.

General Education Course
Academic

Learning Outcomes

Name
1. Formulate an industry-standard design to protect infrastructure against cybersecurity threats.

Name
2. Apply advanced filtering methodologies such as user, application, and content ID to protect against all known and unknown attack vectors.

Name
3. Describe the basics of cryptography including synchronous/asynchronous encryption, PKI, and certificates.

Name
4. Demonstrate ability to assess and harden endpoints based on security policies.

Name
5. Describe uses of advanced malware research and analysis to provide enhanced protection for enterprise networks.

Name
6. Examine mobile and cloud-based connection technologies.

CSEC 275 - Introductory to Cryptography

General

Subject code	Course Number	Course Title
CSEC	275	Introductory to Cryptography

Description
Introduction to the foundation of cryptography, principles behind cryptographic design, and cryptographic applications. Topics include encryption techniques, common cryptographic protocols and security functions.

General Education Course
Academic

Learning Outcomes

Name
1. Students will evaluate cryptography environments.

Name
2. Students will demonstrate individualized basic hacking program skills.

Name
3. Students will develop integrated information system solutions.

Name
4. Students will apply information technology to support workplace performance.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1215 Intermediate Algebra or higher

CSEC 280 - Introduction to Cyber Defense

General

Subject code	Course Number	Course Title
CSEC	280	Introduction to Cyber Defense

Description
Introduction to the foundation of cryptography, principles behind cryptographic design, and cryptographic applications. Topics include encryption techniques, common cryptographic protocols and security functions.

General Education Course
Academic

Learning Outcomes

Name
1. Demonstrate effective written business communication skills.

Name
2. Demonstrate collaborative problem-solving skills.

Name
3. Categorize current data information systems technology.

Name
4. Demonstrate individualized problem-solving skills.

Name
5. Develop integrated information system solutions.

Name
6. Apply information technology to support workplace performance.

Name
7. Demonstrate application of social responsibility and ethical standards.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): MATH1215 Intermediate Algebra or higher

CSEC 285 - Introduction to Managing Information Security

General

Subject code	Course Number	Course Title
CSEC	285	Introduction to Managing Information Security

Description
Managerial aspects of information security and assurance including access control models, information security governance, accountability metrics, legal responsibilities, and information security program assessment.

General Education Course
Academic

Learning Outcomes

Name
1.Be able to understand the legal, investigatory, ethical requirements, and certification programs associated with Information Security within Information Technology (IT).

Name
2.Will recognize the evolving role of IT security for improving physical and operational security by implementing effective security policies and standards using effective written business communication skills.

CSEC 286 - Information Security Certification Preparation

General

Subject code	Course Number	Course Title
CSEC	286	Information Security Certification Preparation

Description
Covers the examination objectives and detailed preparation to prepare students to take the CompTia Security+ exam.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

DANC 1110G - Dance Appreciation

General

Subject code	Course Number	Course Title
DANC	1110G	Dance Appreciation

Description
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. Student will learn the fundamentals of dance technique, dance history, and a variety of dance aesthetics.

General Education Course
Area VI, Activity

Learning Outcomes

Name
1. Explain a range of ideas about the place of dance in our society.

Name
2. Identify and apply critical analysis while looking at significant dance works in a range of styles.

Name
3. Identify dance as an aesthetic and social practice and compare/contrast dances across a range of historical periods and locations.

Name
4. Recognize dance as an embodied historical and cultural artifact, as well as a mode of nonverbal expression, within the human experience across historical periods and cultures.

Name
5. Use dance to consider contemporary issues and modes of thought.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 101G

DANC 1130 - Ballet I

General

Subject code	Course Number	Course Title
DANC	1130	Ballet I

Description
This course is the beginning level of ballet technique. Students learn the basic fundamentals and performance skills of ballet technique, which may include flexibility, strength, body alignment, coordination, range of motion, vocabulary, and musicality.

General Education Course
Activity

Learning Outcomes

Name
1.Apply fundamental movements of ballet techniques.

Name
2.Enhance flexibility, strength, body alignment, coordination, balance, kinesthetic awareness, range of motion, and musicality.

Name
3.Employ basic theories of classical ballet placement and proper alignment.

Name
4.Develop basic ballet terminology, variations in timing and changes of facing, and barre and center combinations.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 123

DANC 1131 - Introduction to Ballroom Dance

General

Subject code	Course Number	Course Title
DANC	1131	Introduction to Ballroom Dance

Description
An introduction to ballroom dance at the beginning level. Students will learn the fundamentals of technique including carriage, common movement vocabulary, and partnering, and will be introduced to steps and dances from the Bronze Syllabus of American Smooth and International Standard dances.

General Education Course
Activity

Learning Outcomes

Name
1.Execute the basic figures of various Ballroom dances in American and International styles.

Name
2.Demonstrate an understanding of the elements of technique of these forms, including posture, use of the hips and legs, and lead and follow.

Name
3.Develop the skills of style and performance quality within the dance.

Name
4.Demonstrate improved overall physical capability, musicality, and movement memory.

Name
5.Appreciate Ballroom dancing as an artform and a discipline.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 125

DANC 1135 - Argentine Tango

General

Subject code	Course Number	Course Title
DANC	1135	Argentine Tango

Description
Repeatable: once for a maximum of 2 credits. Offered Spring of even years.

General Education Course
Activity

Learning Outcomes

Name
1. Execute the basic figures of Tango and Argentine Tango.

Name
2. Demonstrate an understanding of the elements of technique of these forms, including posture, use of the hips and legs, and lead and follow.

Name
3. Develop the skills of style and performance quality within the dance.

Name
4. Articulate the cultural and historical underpinnings of these forms as World dances.

Name
5. Demonstrate improved overall physical capability, musicality, and movement memory.

Name
6. Appreciate Tango as an artform and a discipline.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 109

DANC 1140 - Flamenco I

General

Subject code	Course Number	Course Title
DANC	1140	Flamenco I

Description
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.

General Education Course
Activity

Learning Outcomes

Name
1. Demonstrate a basic level of competency in the principles of alignment, anatomy, coordination, mobility, stability, and stamina.

Name
2. Demonstrate fundamental flamenco techniques relative to spatial awareness, rhythm, phrasing, and sequencing.

Name
3. Demonstrate competency with basic flamenco movement vocabulary.

Name
4. Perform a variety of flamenco dances, poses, steps, hand movements, and combinations.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 129

DANC 1150 - Modern Dance I

General

Subject code	Course Number	Course Title
DANC	1150	Modern Dance I

Description
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.

General Education Course
Activity

Learning Outcomes

Name
1. Use a more developed sense of muscle control and strength, stretch and balance, coordination.

Name
2. Demonstrate and verbalize an increased awareness of Modern Dance techniques.

Name
3. Execute dance phrases, combining several movements and in more than one rhythm.

Name
4. Demonstrate an increased awareness of musicality while dancing and use Modern Dance Techniques creatively.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 126

DANC 1185 - Introduction to Country Western Dance

General

Subject code	Course Number	Course Title
DANC	1185	Introduction to Country Western Dance

Description
An introduction to Country Western Dance at the beginning level. Students will learn the fundamentals of technique and several dances, including Country Western Two-Step, Nightclub Two-Step, Polka, and Line Dance.

General Education Course
Activity

Learning Outcomes

Name
1. Execute the basic figures of various Country Western social dances.

Name
2. Demonstrate an understanding of the elements of technique of these forms, including posture, use of the hips and legs, and lead and follow.

Name
3. Develop the skills of style and performance quality within the dance.

Name
4. Demonstrate improved overall physical capability, musicality, and movement memory.

Name
5. Appreciate Country Western dancing as an artform and a discipline.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 121

DANC 1220 - Introduction to Latin Social Dance

General

Subject code	Course Number	Course Title
DANC	1220	Introduction to Latin Social Dance

Description
An introduction to Latin social dance at the beginning level. Students will learn the fundamentals of technique including carriage, common movement vocabulary, and partnering, and will be introduced to steps and dances from the Bronze Syllabus of American Rhythm and International Latin dances.

General Education Course
Activity

Learning Outcomes

Name
1. Execute the basic figures of various Latin dances in American and International styles.

Name
2. Demonstrate an understanding of the elements of technique of these forms, including posture, use of the hips and legs, and lead and follow.

Name
3. Develop the skills of style and performance quality within the dance.

Name
4. Demonstrate improved overall physical capability, musicality, and movement memory.

Name
5. Appreciate Latin dancing as an artform and a discipline.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 122

DANC 1235 - Introduction to West Coast Swing Dance

General

Subject code	Course Number	Course Title
DANC	1235	Introduction to West Coast Swing Dance

Description
An introduction to West Coast Swing dancing at the beginning level. Students will learn the fundamentals of technique of several Swing forms and the Hustle, including basic steps, partnering, and musical forms.

General Education Course
Activity

Learning Outcomes

Name
1. Execute the basic figures of both West Coast Swing and the Hustle.

Name
2. Demonstrate an understanding of the elements of technique of these forms, including posture, use of the hips and legs, and lead and follow.

Name
4. Demonstrate improved overall physical capability, musicality, and movement memory.

Name
5. Appreciate Swing dancing as an artform and a discipline.

Name
6. Expand your knowledge of other dance forms.

Name
7. Enjoy the process!

Common Course Numbering Crosswalk

Past Course Numbers
DANC 118

DANC 2130 - Ballet II

General

Subject code	Course Number	Course Title
DANC	2130	Ballet II

Description
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.

General Education Course
Activity

Common Course Numbering Crosswalk

Past Course Numbers
DANC 223

DANC 2130L - Ballet II Lab

General

Subject code	Course Number	Course Title
DANC	2130L	Ballet II Lab

Description
This course is designed for the acquisition of intermediate level ballet technique and skill development. May be repeated up to 2 credits.

General Education Course
Activity

Common Course Numbering Crosswalk

Past Course Numbers
DANC 223 L

DANC 2150 - Modern Dance II

General

Subject code	Course Number	Course Title
DANC	2150	Modern Dance II

Description
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.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 226

DANC 2157 - Hip-Hop Dance

General

Subject code	Course Number	Course Title
DANC	2157	Hip-Hop Dance

Description
An introduction to hip hop dance and its relationship to other aspects of hip-hop culture, music, and media, with an emphasis on creativity, individuality, and expression. Coursework may include street styles, breaking, and various regional forms.

Learning Outcomes

Name
1. Recognize and articulate the fundamentals of various styles of hip hop dance technique and vocabulary.

Name
2. Contextualize the history and cultural aspects of hip hop.

Name
3. Examine the relationship between dance and other aspects of hip hop culture such as music and media representation.

Name
4. Demonstrate improvement in overall physical capability, musicality, and movement memory.

Name
5. Appreciate hip hop dance as an artform and a discipline.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 212

DANC 2270 - Dance Improvisation I

General

Subject code	Course Number	Course Title
DANC	2270	Dance Improvisation I

Description
An introduction to the practice of dance improvisation focusing on play and discovery as methods for generating movement and exploring the full potential of the communicative, authentic body in motion. Course content includes concepts in Body, Effort, Shape, Space, Kinesthetic Response, Scoring, and Contact.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 280

DANC 2310 - Bronze American Rhythm

General

Subject code	Course Number	Course Title
DANC	2310	Bronze American Rhythm

Description
Bronze level American Rhythm patterns, techniques, and partnering with emphasis on elements of dance.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 222

DANC 2311 - Bronze American Smooth

General

Subject code	Course Number	Course Title
DANC	2311	Bronze American Smooth

Description
Bronze level American Smooth patterns, technique, and partnering with an emphasis on the elements of dance.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 225

DANC 2320 - Bronze International Latin

General

Subject code	Course Number	Course Title
DANC	2320	Bronze International Latin

Description
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, Samba & Jive.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 232

DANC 2321 - Bronze International Standard

General

Subject code	Course Number	Course Title
DANC	2321	Bronze International Standard

Description
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.

Common Course Numbering Crosswalk

Past Course Numbers
DANC 235

DANC 2460 - Dance for Musical Theatre

General

Subject code	Course Number	Course Title
DANC	2460	Dance for Musical Theatre

Description
This course will supplement the dance technique curriculum specifically in support of the study of Musical Theatre. Students will practice various social, world, and theatrical dance forms, learn selections from iconic choreography, experience mock dance auditions, and explore the skill of dance composition for musical theatre repertory.

Learning Outcomes

Name
1. Participate successfully in dance techniques and styles outside of the basic tap, jazz, ballet, and modern dance curriculum.

Name
2. Recognize and contextualize musical theatre history and repertory through exposure to significant historical choreography and choreographers.

Name
3. Understand and excel at the skill of taking part in a musical theatre dance audition.

Name
4. Demonstrate improvement in overall physical capability, musicality, and movement memory.

Name
5. Appreciate the practice of musical theatre dance as an artform and a discipline.

DRFT 100 - Introduction to Architecture, Engineering, & Construction

General

Subject code	Course Number	Course Title
DRFT	100	Introduction to Architecture, Engineering, & Construction

Description
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.
Crosslist: ARCH 1310.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

DRFT 101 - Introduction to Drafting and Design Technologies

General

Subject code	Course Number	Course Title
DRFT	101	Introduction to Drafting and Design Technologies

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

DRFT 105 - Technical Drawing for Industry

General

Subject code	Course Number	Course Title
DRFT	105	Technical Drawing for Industry

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate . application of construction drawings in the field.

Name
2. Explain proper use of drawings and measurements on the job.

Name
3. Define particular drawings in use of hands on work.

DRFT 108 - Drafting Concepts/Descriptive Geometry

General

Subject code	Course Number	Course Title
DRFT	108	Drafting Concepts/ Descriptive Geometry

Description
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. (1+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

DRFT 109 - Computer Drafting Fundamentals

General

Subject code	Course Number	Course Title
DRFT	109	Computer Drafting Fundamentals

Description
Introduction to principles and fundamentals of drafting using both manual drawing techniques and computer-aided drafting (CAD) applications.
Repeatable: up to 3 credits.
Crosslist: E T 109 and C E 109.

General Education Course
Technical

Learning Outcomes

Name
1. To be able to draw and modify basic geometric shapes using Autocad.

Name
2. To be able to work with blocks and groups.

Name
3. To be able to properly set up and use dimension styles and text styles.

Name
4. To be able to prepare and setup a drawing for printing.

DRFT 112 - Drafting Concepts/Computer Drafting Fundamentals I

General

Subject code	Course Number	Course Title
DRFT	112	Drafting Concepts/ Computer Drafting Fundamentals I

Description
Basic drafting skills, terminology, and visualization. Introduction to principles and fundamentals of computer-aided drafting.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate the ability to use CAD techniques.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in OECS207 Windows and OECS125 Operating Systems

DRFT 113 - Drafting Concepts/Computer Drafting Fundamentals II

General

Subject code	Course Number	Course Title
DRFT	113	Drafting Concepts/ Computer Drafting Fundamentals II

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Create and draw a logo and title block.
2. Design living spaces.
3. Design and draw a workable floor plan, fully dimensioned with schedules.
4. Locate and draw the floor plan on a site plan.
5. Draw interior and exterior elevations.
6. Draw sections and details.
7. Save and plot.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT112 Drafting Concepts/Computer Drafting Fundamentals I

DRFT 114 - Introduction to Solid Modeling

General

Subject code	Course Number	Course Title
DRFT	114	Introduction to Solid Modeling

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Upon successful completion of this course, the student will have an understanding of and the ability to use CAD techniques.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT109 Computer Drafting Fundamentals

DRFT 115 - General Construction Safety

General

Subject code	Course Number	Course Title
DRFT	115	General Construction Safety

Description
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. Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

DRFT 124 - Introduction to Geometric Dimensioning and Tolerancing

General

Subject code	Course Number	Course Title
DRFT	124	Introduction to Geometric Dimensioning and Tolerancing

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): DRFT114 Introduction to Solid Modeling

DRFT 130 - General Building Codes

General

Subject code	Course Number	Course Title
DRFT	130	General Building Codes

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Define the role the modern day building inspector/ codes enforcement officer plays in maintaining property values and public safety.

DRFT 135 - Electronics Drafting I

General

Subject code	Course Number	Course Title
DRFT	135	Electronics Drafting I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT108 Drafting Concepts/Descriptive Geometry and DRFT109 Computer Drafting Fundamentals

DRFT 143 - Civil Drafting Fundamentals

General

Subject code	Course Number	Course Title
DRFT	143	Civil Drafting Fundamentals

Description
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.
Crosslist: E T 143.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT109 Computer Drafting Fundamentals

DRFT 151 - Construction Principles and Print Reading

General

Subject code
DRFT

Course Number
151

Course Title
Construction Principles and Print Reading

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

DRFT 153 - Survey Drafting Applications

General

Subject code
DRFT

Course Number
153

Course Title
Survey Drafting Applications

Description
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.
Crosslist: SUR 143.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT109 Computer Drafting Fundamentals

DRFT 160 - Construction Take-Offs and Estimating

General

Subject code
DRFT

Course Number
160

Course Title
Construction Take-Offs and Estimating

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. It is also to obtain a greater understanding of the universal language of Drafters, Estimators, Builders and Owners, including terminology and symbols used to communicate in the construction/ design field as accepted in the industry.

Name
2. Students will be able to prepare written technical documents.

Name
3. Students will be able to use appropriate drafting/technical terminology.

Name
4. Students will be able to produce documents that are technically sound.

Name
5. Students will be able to analyze information to develop solutions to technical aspects of a problem/ situation.

Name
6. Students will be able to produce projects that respect the intellectual property of others.

Name
7. Students will be able to demonstrate professionalism with regard to attendance, punctuality and contribution to course.

Name
8. Students will be able to demonstrate professional demeanor.

Name
9. Students will be able to practice productive work skills.

Name
10. Students will be able to demonstrate Local vs. National costing.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT151 Construction Principles and Print Reading

DRFT 163 - Civil Infrastructure Detailing

General

Subject code	Course Number	Course Title
DRFT	163	Civil Infrastructure Detailing

Description
Infrastructure detailing related to civil engineering projects including ponding, roadway, sewer, and storm-water structures; concrete foundations; and related utility details. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT109 Computer Drafting Fundamentals

DRFT 164 - Intermediate Mechanical Drafting/ Solid Modeling

General

Subject code	Course Number	Course Title
DRFT	164	Intermediate Mechanical Drafting/Solid Modeling

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT114 Introduction to Solid Modeling

DRFT 165 - Introduction to Building Information Modeling

General

Subject code	Course Number	Course Title
DRFT	165	Introduction to Building Information Modeling

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

DRFT 180 - Residential Drafting

General

Subject code	Course Number	Course Title
DRFT	180	Residential Drafting

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Create and draw a logo and title block.

Name
2. Design living spaces.

Name
3. Design and draw a workable floor plan, fully dimensioned with schedules.

Name
4. Locate and draw the floor plan on a site plan.

Name
5. Draw interior and exterior elevations.

Name
6. Draw sections and details.

Name
7. Save and plot.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT109 Computer Drafting Fundamentals

DRFT 181 - Commercial Drafting

General

Subject code	Course Number	Course Title
DRFT	181	Commercial Drafting

Description
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.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Upon successful completion of this course, the student will understand and the ability to use CAD techniques in construction.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT109 Computer Drafting Fundamentals

DRFT 190 - Finding and Maintaining Employment

General

Subject code	Course Number	Course Title
DRFT	190	Finding and Maintaining Employment

Description
Techniques in self-evaluations, resume writing, application completion, job interviewing, and job retention. Exposure to work ethics, employee attitudes, and employer expectations.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate the personal growth and changes are integral parts of career development by reflecting on past experiences and projecting future activities.

Name
2. Explain to identify personal qualities needed to identify an appropriate career.

Name
3. Define the proficiency in job seeking through updating a rsum, refining the process for writing a high quality cover letter and preparing for interviews.

DRFT 204 - Geographic Information Systems Technology

General

Subject code	Course Number	Course Title
DRFT	204	Geographic Information Systems Technology

Description
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.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

DRFT 214 - Advanced Solid Modeling

General

Subject code	Course Number	Course Title
DRFT	214	Advanced Solid Modeling

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate the ability to use CAD techniques in architectural construction.

Name
2. Create and draw a logo and title block.

Name
3. Design living spaces.

Name
4. Design and draw a workable floor plan, fully dimensioned with schedules.

Name
5. Locate and draw the floor plan on a site plan.

Name
6. Draw interior and exterior elevations.

Name
7. Draw sections and details.

Name
8. Save and plot.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): DRFT114 Introduction to Solid Modeling

DRFT 222 - Introduction to Geomatics

General

Subject code	Course Number	Course Title
DRFT	222	Introduction to Geomatics

Description
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.
Crosslist: SUR 222.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1250G Trigonometry & Pre-Calculus or MATH1430G Applications of Calculus I

DRFT 230 - Building Systems Drafting

General

Subject code	Course Number	Course Title
DRFT	230	Building Systems Drafting

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in DRFT180 Residential Drafting or DRFT181 Commercial Drafting

DRFT 240 - Structural Systems Drafting

General

Subject code	Course Number	Course Title
DRFT	240	Structural Systems Drafting

Description

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.
Repeatable: up to 3 credits.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s)/Corequisite(s): DRFT180 Residential Drafting or DRFT181 Commercial Drafting

DRFT 242 - Roadway Development Drafting

General

Subject code	Course Number	Course Title
DRFT	242	Roadway Development Drafting

Description

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.
Repeatable: up to 3 credits.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in DRFT143 Civil Drafting Fundamentals

DRFT 243 - Land Development Drafting

General

Subject code	Course Number	Course Title
DRFT	243	Land Development Drafting

Description

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.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in DRFT143 Civil Drafting Fundamentals and DRFT153 Survey Drafting Applications

DRFT 250 - Principles of Detailing and Design

General

Subject code	Course Number	Course Title
DRFT	250	Principles of Detailing and Design

Description

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.
Repeatable: up to 3 credits.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): DRFT180 Residential Drafting or DRFT181 Commercial Drafting

DRFT 254 - Spatial Data Processing

General

Subject code	Course Number	Course Title
DRFT	254	Spatial Data Processing

Description
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. Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT204 Geographic Information Systems Technology

DRFT 255 - Independent Study

General

Subject code	Course Number	Course Title
DRFT	255	Independent Study

Description
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. Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Be able to clearly understand the content of chosen course of study.

DRFT 258 - Introduction to Infraworks

General

Subject code	Course Number	Course Title
DRFT	258	Introduction to Infraworks

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT143 Civil Drafting Fundamentals

DRFT 265 - Advanced Building Information Modeling Applications

General

Subject code	Course Number	Course Title
DRFT	265	Advanced Building Information Modeling Applications

Description
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.(2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT165 Introduction to Building Information Modeling

DRFT 274 - GIS Theory and Analysis

General

Subject code	Course Number	Course Title
DRFT	274	GIS Theory and Analysis

Description
Analyzes the hypothesis in which location and spatial data sufficiently quantities the appropriate statistical methodology.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT254 Spatial Data Processing

DRFT 276 - Computer Rendering and Animation I

General

Subject code	Course Number	Course Title
DRFT	276	Computer Rendering and Animation I

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

DRFT 288 - Portfolio Development

General

Subject code	Course Number	Course Title
DRFT	288	Portfolio Development

Description
Production of a portfolio consisting of previously produced student work. Process shall include the compilation and organization of working and presentation drawings, construction documents, mechanical drafting/solid modeling, and renderings. 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.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Compile a professional portfolio including working drawings, presentation drawings, construction documents, models, and renderings.

Name
2. Demonstrate the ability to select and organize work to demonstrate technical competence, range of skills, and design sensibility.

Name
3. Demonstrate the ability to produce new content or refine past work to fill gaps or highlight areas of strength.

Name
4. Demonstrate the ability to apply principles of design layout, graphic presentation, and clarity for both print and online portfolios.

Name
5. Demonstrate proficiency with digital tools for portfolio publishing (online portfolio platforms, pdf assembling, rendering, etc.).

Name
6. Demonstrate the ability to craft a professional resume and cover letter targeted to roles in drafting, CAD, or graphics technology.

Name
7. Prepare for job search: interview preparation, understanding employer expectations, setting up mock interviews or presentation of portfolio.

DRFT 290 - Special Topics

General

Subject code	Course Number	Course Title
DRFT	290	Special Topics

Description
Topics subtitled in the Schedule of Classes.
Repeatable: for a maximum of 12 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

DRFT 291 - Cooperative Experience

General

Subject code	Course Number	Course Title
DRFT	291	Cooperative Experience

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

DRFT 295 - Professional Development and Leadership DAGA

General

Subject code	Course Number	Course Title
DRFT	295	Professional Development and Leadership DAGA

Description
Students gain experience in leadership, team building, performing community service, and membership and/or leadership in a student organization. Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

E T 101 - Introduction to Engineering Technology and Geomatics

General

Subject code	Course Number	Course Title
ET	101	Introduction to Engineering Technology and Geomatics

Description
An introduction to geomatics and the various engineering technology 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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

E T 104 - Soldering Techniques

General

Subject code	Course Number	Course Title
ET	104	Soldering Techniques

Description
Fundamentals of soldering, desoldering, and quality inspection of printed circuit boards. (3P)

General Education Course
Technical

Learning Outcomes

Name
1. Reading-locates understands and interprets written information in prose and in documents such as manuals, graphs, and schedules.

Name
2. Listening-receives, attends to, interprets, and responds to verbal messages and other cues.

Name
3. Speaking-organizes ideas and communicates orally.

Name
4. Upon successful completion of this course students will be able to solder electronic components to a PC board and demonstrate assembly results by having unit work. If students wants to complete a higher skill project then they will be allowed only after showing competency with first project.

E T 109 - Computer Drafting Fundamentals

General

Subject code	Course Number	Course Title
ET	109	Computer Drafting Fundamentals

Description
Introduction to principles and fundamentals of drafting using both manual drawing techniques and computer-aided drafting (CAD) applications.
Repeatable: up to 3 credits.
Crosslist: DRFT 109 and C E 109.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate a working knowledge basic drafting skills.

Name
2. Demonstrate a working knowledge of Inventor.

Name
3. Demonstrate a working knowledge of measuring tools.

E T 110 - Introduction to 3-D Modeling (Solid Works)

General

Subject code	Course Number	Course Title
ET	110	Introduction to 3-D Modeling (Solid Works)

Description
Introduction to SolidWorks, a 3-D modeling software. The foundation for designing mechanical parts and assemblies. (2+3P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

E T 120 - Computation Software

General

Subject code	Course Number	Course Title
ET	120	Computation Software

Description
The use of spreadsheet software in the field of engineering technology.

General Education Course
Technical

Learning Outcomes

Name
1. Use functions and cell reference in Excel spreadsheet.

E T 125 - Introduction to Renewable Energy

General

Subject code	Course Number	Course Title
ET	125	Introduction to Renewable Energy

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

E T 143 - Civil/Survey Drafting I

General

Subject code	Course Number	Course Title
ET	143	Civil/Survey Drafting I

Description
Introduction to drafting in the field of Civil Engineering. Drawings, projects, and terminologies related to topographic mapping, contour drawings, plan, and profiles as street/highway layout.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ET109 Computer Drafting Fundamentals or DRFT109 Computer Drafting Fundamentals

E T 153 - Fundamentals of Networking Communications

General

Subject code	Course Number	Course Title
ET	153	Fundamentals of Networking Communications

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Students will identify network types/protocols utilizing the OSI reference model and compute numbering system network problems.

Name
2. Students will explain issues related to managing and documenting network environments. Students will list, compare, and discuss industry standards for addressing computers on a network.

Name
3. Students will list and distinguish between computer networking historical milestones. Students will identify, compare, and evaluate networking data transport techniques.

Name
4. Students will identify and compare network transmission media and build/evaluate network cabling. Students will discuss IT industry certifications and summarize current technology trends.

E T 154 - Construction Methods and Communications

General

Subject code	Course Number	Course Title
ET	154	Construction Methods and Communications

Description
Blueprint reading, specifications, and introduction to materials used in construction.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

E T 156 - Introduction to Information Security

General

Subject code	Course Number	Course Title
ET	156	Introduction to Information Security

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): ET120 Computation Software

E T 160 - Windows Fundamentals for IET

General

Subject code	Course Number	Course Title
ET	160	Windows Fundamentals for IET

Description
Fundamental review of the Windows operating system including installation and upgrades as well as managing applications, files, folders, devices and maintenance.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

E T 182 - Digital Logic

General

Subject code	Course Number	Course Title
ET	182	Digital Logic

Description
The use of truth tables, Boolean equations, and diagrams to define, simplify, and implement logic-valued functions.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate a working knowledge of Karaugh mapping.

Name
2. Explain how to use various logic families.

Name
3. Define work/power relationships and apply concepts to problem solving.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): MATH1220G College Algebra or higher

E T 183 - Applied DC Circuits

General

Subject code	Course Number	Course Title
ET	183	Applied DC Circuits

Description
Application of Ohm's law, Kirchhoff's laws, Thevenin's, and Norton's theorems to the analysis of DC passive circuits. Embedded Lab. (2+2P).

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate a working knowledge of DC Circuits.

Name
2. Explain how to use Ohms Law.

Name
3. Define work/power relationships and apply concepts to problem solving.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): ET183L Applied DC Circuits Lab

E T 183L - Applied DC Circuits Lab

General

Subject code	Course Number	Course Title
ET	183L	Applied DC Circuits Lab

Description
DC applied circuits lab. (2P).

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): ET183 Applied DC Circuits

E T 184 - Applied AC Circuits

General

Subject code	Course Number	Course Title
ET	184	Applied AC Circuits

Description
Application of circuit laws and theorems to analysis of AC passive circuits. Resonant circuit, polyphase circuit and magnetic circuit topics are introduced. Embedded Lab.

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate a working knowledge of the electron theory and Ohm's law.

Name
2.Describe the basic relationships of voltage, current, and resistance in series and parallel circuits and apply Ohms laws to find unknown quantities.

Name
3.Solve problems involving series-parallel circuits.

Name
4.Discuss work/power relationships and apply power-energy concepts to problem solving.

Name
5.A general understanding of magnetism and magnetic units.

Name
6.A basic knowledge of various electrical devices.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ENGR120 DC Circuit Analysis (L)

E T 190 - Applied Circuits

General

Subject code	Course Number	Course Title
ET	190	Applied Circuits

Description
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.
Repeatable: up to 4 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): MATH1250G Trigonometry & Pre-Calculus or higher

E T 191 - Applied Circuits Laboratory

General

Subject code	Course Number	Course Title
ET	191	Applied Circuits Laboratory

Description
Applied Circuits Lab. (2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

E T 210 - Intermediate 3-D Modeling (Solid Works)

General

Subject code	Course Number	Course Title
ET	210	Intermediate 3-D Modeling (Solid Works)

Description
Intermediate 3-D modeling. Applied modeling of techniques to prepare for SolidWorks certification (CSWA).

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in ENGR110 Introduction to Engineering Design

E T 217 - Manufacturing Processes

General

Subject code	Course Number	Course Title
ET	217	Manufacturing Processes

Description

Introduction to manufacturing and processing, including casting, forming, and machining. Emphasis on creating products with the appropriate techniques. Crosslist: I E 217.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** ET217L Manufacturing Processes Lab
- '**Prerequisite(s):** A grade of C or better in ET110 Introduction to 3-D Modeling (Solid Works) and MATH1220G College Algebra

E T 217L - Manufacturing Processes Lab

General

Subject code	Course Number	Course Title
ET	217L	Manufacturing Processes Lab

Description

Hands-on laboratory in machine shop to apply topics from E T 217, including: casting, forming, and machining.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Corequisite(s): ET217 Manufacturing Processes

E T 220 - Internship

General

Subject code	Course Number	Course Title
ET	220	Internship

Description

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. Repeatable: up to 6 credits.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in ET183 Applied DC Circuits

E T 240 - Applied Statics

General

Subject code	Course Number	Course Title
ET	240	Applied Statics

Description

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.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

- **Prerequisite(s):** A grade of C or better in PHYS1230G Algebra-Based Physics I or PHYS1310G Calculus -Based Physics I
- '**Prerequisite(s)/Corequisite(s):** MATH1430G Applications of Calculus I or MATH1511G Calculus and Analytic Geometry I

E T 241 - Applied Dynamics

General

Subject code	Course Number	Course Title
ET	241	Applied Dynamics

Description
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 impulse and momentum.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

- **Prerequisite(s):** A grade of C or better in ET240 Applied Statics or ENGR233 Engineering Mechanics I
- **Prerequisite(s)/Corequisite(s):** MATH1440 Applications of Calculus II
- or MATH1521G Calculus and Analytic Geometry II

E T 246 - Electronic Devices I

General

Subject code	Course Number	Course Title
ET	246	Electronic Devices I

Description
Solid-state devices including diodes, bipolar-transistors, and field effect transistors. Use of these devices in rectifier circuits, small signal and power amplifiers.

General Education Course
Technical

Learning Outcomes

Name
1. Understand solid state devices including diodes, bipolar transistor and field-effect transistor.
2. Demonstrate a working knowledge of these devices in rectifier circuits, small signal and power amplifiers.
3. Demonstrate troubleshooting techniques used with solid state electronics.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ET190 Applied Circuits, ET184 Applied AC Circuits or ENGR120 DC Circuit Analysis (L)

E T 253 - Networking Operating Systems II

General

Subject code	Course Number	Course Title
ET	253	Networking Operating Systems II

Description
Introduction to a computer network operating system.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ET120 Computation Software and ET153 Fundamentals of Networking Communications

E T 254 - Concrete Technology

General

Subject code	Course Number	Course Title
ET	254	Concrete Technology

Description
Fundamentals of aggregates, Portland cement, and asphalt used in design and construction. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

E T 255 - Linux System Administration

General

Subject code	Course Number	Course Title
ET	255	Linux System Administration

Description
Operating systems applications and interfacing with an introduction to systems administration. Topics include Shell Programming, Programming Tools, Database Management, System Backups, Security, Setup and Maintenance of Linux Servers.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

E T 256 - Networking Operating Systems III

General

Subject code	Course Number	Course Title
ET	256	Networking Operating Systems III

Description
Introduction to a computer network operating system.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ET253 Networking Operating Systems II

E T 262 - Software Technology I

General

Subject code	Course Number	Course Title
ET	262	Software Technology I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Solve problems using basic programming structures.

Name
2. Solve problems using classes and methods by object-oriented approaches.

Name
3. Design event-driven GUI programs.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): ET182 Digital Logic or ENGR130 Digital Logic and MATH1250G Trigonometry & Pre-Calculus or MATH1430G Applications of Calculus I

E T 272 - Electronic Devices II

General

Subject code	Course Number	Course Title
ET	272	Electronic Devices II

Description
Operational amplifiers, positive and negative feedback, computer aided circuit analysis. In addition circuits include integrator, differentiators and phase shift networks.

General Education Course
Technical

Learning Outcomes

Name
1.Understand solid state devices including field-effect transistors, op-amps, and thyristors.

Name
2.Demonstrate a working knowledge of these devices in rectifier circuits, small signal amplifiers, and their applications.

Name
3.Demonstrate troubleshooting techniques used with solid state electronics.

Prerequisites/Corequisites

Free Form Requirements
- **Prerequisite(s):** A grade of C or better in ET246 Electronic Devices I
- '**Prerequisite(s)/Corequisite(s):** MATH1435 Applications of Calculus I or MATH1511G Calculus and Analytic Geometry I

E T 273 - Advanced Networking Communications

General

Subject code	Course Number	Course Title
ET	273	Advanced Networking Communications

Description
Explores advanced networking communications to include Wireless Networking, Virtualization and Cloud Computing, Subnets and VLANs, Network Risk Management, Network Security Design, Network Performance, and WANS. The course covers the examination objectives and detailed preparation for students to take the CompTIA Network+ exam.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ET153 Fundamentals of Networking Communications

E T 276 - Electronic Communications

General

Subject code	Course Number	Course Title
ET	276	Electronic Communications

Description
Antennas, transmission devices, A-M and F-M transmission and detection, pulse systems, microwave systems.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ET246 Electronic Devices I

E T 282 - Digital Electronics

General

Subject code	Course Number	Course Title
ET	282	Digital Electronics

Description
Applications of digital integrated circuits, multiplexers, counters, arithmetic circuits, and microprocessors.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate a working knowledge of Karaugh mapping.

Name
2. Explain how to use various logic families.

Name
3. Define work/power relationships and apply concepts to problem solving.

Prerequisites/Corequisites

Free Form Requirements

- **Prerequisite(s):** A grade of C or better in ET182 Digital Logic
- **Prerequisite(s)/Corequisite(s):** ET190 Applied Circuits or ET184 Applied AC Circuits

E T 283 - Hardware PC Maintenance

General

Subject code	Course Number	Course Title
ET	283	Hardware PC Maintenance

Description
Installing, configuring, troubleshooting, and maintaining personal computer hardware components.

General Education Course
Technical

Learning Outcomes

Name
1.Identify and understand the functioning of various hardware components in computer system installation and configuration.

Name
2.Describe common hardware problem symptoms/causes and troubleshooting methods.

Name
3.Understand the basics of networking fundamentals and security issues.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ET120 Computation Software

E T 284 - Software PC Maintenance

General

Subject code	Course Number	Course Title
ET	284	Software PC Maintenance

Description
Installing, configuring, troubleshooting, and maintaining personal computer operating systems.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ET120 Computation Software

E T 285 - Advanced Information Security

General

Subject code	Course Number	Course Title
ET	285	Advanced Information Security

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ET156 Introduction to Information Security

E T 286 - Information Security Certification Preparation

General

Subject code	Course Number	Course Title
ET	286	Information Security Certification Preparation

Description
The course covers the examination objectives and detailed preparation for a certification in information security.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ET285 Advanced Information Security

E T 290 - Networking Wireless Communication

General

Subject code	Course Number	Course Title
ET	290	Networking Wireless Communication

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ET273 Advanced Networking Communications

E T 291 - PC Forensics and Investigation

General

Subject code	Course Number	Course Title
ET	291	PC Forensics and Investigation

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ET120 Computation Software

ECED 1110 - Child Growth, Development, and Learning

General

Subject code	Course Number	Course Title
ECED	1110	Child Growth, Development, and Learning

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Incorporate understanding of developmental stages, processes, and theories of growth, development, and learning into developmentally appropriate practice. A.1

Name
2. Demonstrate knowledge of the interaction between maturation and environmental factors that influence physical, social, emotional, cognitive, and cultural domains in the healthy development of each child. A.2

Name
3. Demonstrate knowledge of the significance of individual differences in development and learning.

Name
4. Demonstrate knowledge of how certain differences may be associated with rate of development and developmental patterns associated with developmental delays and/or specific disabilities. A.3

Name
5. Demonstrate knowledge of the similarities between children who are developing typically and those with diverse abilities. A.4

Name
6. Demonstrate knowledge of the many functions that language serves in the cognitive, social, and emotional aspects of development in the formative years. A.7

Name
7. Demonstrate knowledge of the developmental sequence of language and literacy, including the influence of culture and home factors. A.8

Name
8. Demonstrate knowledge of how children acquire and use verbal, non-verbal, and alternative means of communication. A.9

Name
9. Demonstrate knowledge of the relationship among emotions, behaviors, and communication skills to assist children in identifying and expressing their feelings in appropriate ways. A.10

Name
10. Demonstrate knowledge of the relationship among emotions, behaviors, and communication skills to assist children in identifying and expressing their feelings in appropriate ways. A.10

Name
11. Use appropriate guidance to support the development of self-regulatory capacities in young children. A.11

Common Course Numbering Crosswalk

Past Course Numbers
ECED 115

ECED 1115 - Health, Safety, and Nutrition

General

Subject code	Course Number	Course Title
ECED	1115	Health, Safety, and Nutrition

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Recognize and respond to each childs physical health, intellectual and emotional well-being, and nutritional and safety needs. B.1

Name
2. Articulate an understanding of indoor and outdoor learning environments that provide opportunities for children to put into practice healthy behaviors (physically, socially and emotionally). B.2

Name
3. Use appropriate health appraisal and management procedures and makes referrals when necessary. B.3

Name
4. Recognize signs of emotional distress, child abuse, and neglect in young children and use procedures appropriate to the situation, such as initiating discussions with families, referring to appropriate professionals, and, in cases of suspected abuse or neglect, reporting to designated authorities. B.4

Name
5. Establish an environment that provides opportunities and reinforcement for childrens practice of healthy behaviors that promote appropriate nutrition and physical and psychological wellbeing. B.5

Name
6. Provide a consistent daily schedule for rest/sleep, as developmentally appropriate. B.6

Name
7. Implement health care and educational activities for children and families based on health and; nutritional information that is responsive to diverse cultures. B.7

Name
8. Assist young children and their families, as individually appropriate, in developing decision- making and interpersonal skills that enable them to make healthy choices and establish health-promoting behaviors. B.8

Common Course Numbering Crosswalk

Past Course Numbers
ECED 125

ECED 1120 - Guiding Young Children

General

Subject code	Course Number	Course Title
ECED	1120	Guiding Young Children

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Apply knowledge of cultural and linguistic diversity and the significance of socio-cultural and political contexts for development and learning and recognize that children are best understood in the contexts of family, culture and society. A.6

Name
2. Demonstrate knowledge of the many functions that language serves in the cognitive, social, and emotional aspects of development in the formative years. A.7

Name
3. Demonstrate knowledge of the relationship among emotions, behaviors, and communication skills to assist children in identifying and expressing their feelings in appropriate ways. A.10

Name
4. Use appropriate guidance to support the development of self-regulatory capacities in young children. A.11

Name
5. Recognize and respond to each childs physical health, intellectual and emotional well-being, and nutritional and safety needs. B.1

Name
6. Demonstrate knowledge and skill in building positive, reciprocal relationships with families. C.1

Name
7. Demonstrate knowledge of and respect for variations across cultures, in terms of family strengths, expectations, values, and child-rearing practices. C.4

Name
8. Demonstrate the ability to incorporate the families desires and goals for their children into classroom or intervention strategies. C.7

Name
9. Demonstrate knowledge and skills in developmentally appropriate guidance techniques and strategies that provide opportunities to assist children in development positive thoughts and feelings about themselves and others through cooperative interaction with peers and adults. E.3

Name
10. Demonstrate understanding of the influence of the physical setting, schedule, routines, and transitions on children and use these experiences to promote childrens development and learning. E.7

Name
11. Demonstrate knowledge of assessment techniques, interpretation of assessment information in the application of this.

Common Course Numbering Crosswalk

Past Course Numbers
ECED 265

ECED 1125 - Assessment of Children and Evaluation of Programs

General

Subject code	Course Number	Course Title
ECED	1125	Assessment of Children and Evaluation of Programs

Description
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.
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Demonstrate ability to choose valid tools that are developmentally, culturally, and linguistically appropriate; use the tools correctly; make appropriate referrals; and interpret assessment results, with the goal of obtaining valid, useful information to inform practice and decision making. F.1

Name
2. Demonstrate knowledge of maintaining appropriate records of childrens development and behavior that safeguard confidentiality and privacy. F.2 3.

Name
3. Demonstrate knowledge of the educators role as a participating member of the assessment process as described and mandated by state and federal regulations for Individual family service plans (IFSP) and individual education plans (IEP). F.3

Name
4. Demonstrate understanding of the influences of environmental factors, cultural/linguistic differences, and diverse ways of learning on assessment outcomes. F.4 5.

Name
5. Involve the family and, as appropriate, other team members in assessing the childs development, strengths, and needs in order to set goals for the child. F.5 6.

Name
6. Articulate an understanding of the distinctions and definitions of assessment concepts (e.g., screening, diagnostic assessment, standardized, testing, accountability assessment). F.6 7.

Name
7. Apply understanding of assessment concepts toward selection of appropriate formal assessment measures, critiquing the limitations of inappropriate measures, and discussing assessment issues as part of interdisciplinary teams. F.7

Name
8. Articulate an understanding that responsible assessment is legally and ethically grounded and guided by sound professional. It standards is collaborative and open with the goal of supporting diverse children and families. F.8

Name
9. Demonstrate knowledge of assessment techniques, interpretation of assessment information in the Application of this data to curriculum development and/or intervention planning. F.9

Name
10. Demonstrate knowledge of a variety of techniques and procedures to evaluate and modify program goals for young children and their families. F.10.

Name
11. Demonstrate knowledge and use of program evaluation to ensure comprehensive quality of the total Environment for children, families, and the community. F.11

Name
12. Use both self and collaborative evaluations as part of ongoing program evaluations. F.12

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in ECED1110 Child Growth, Development, and Learning and ENGL1110G Composition I or ENGL1110H Composition I Honors

Common Course Numbering Crosswalk

Past Course Numbers

ECED 255

ECED 1130 - Family and Community Collaboration

General

Subject code	Course Number	Course Title
ECED	1130	Family and Community Collaboration

Description

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.
Repeatable: up to 3 credits.

General Education Course

Academic

Learning Outcomes

Name
1. Demonstrate knowledge and skill in building positive, reciprocal relationships with families. C.1

Name
2. Articulate an understanding of a safe and welcoming environment for families and community members. C.2

Name
3. Develop and maintain ongoing contact with families through a variety of communication strategies. C.3

Name
4. Demonstrate knowledge of and respect for variations across cultures, in terms of family strengths, expectations, values, and child-rearing practices. C.4

Name
5. Articulate understanding of the complexity and dynamics of family systems. C.5

Name
6. Demonstrate understanding of the importance of families as the primary educator of their child. C.6

Name
7. Involve families and community members in contributing to the learning environment. C.9

Name
8. Demonstrate ability to communicate to families the programs policies, procedures, and those procedural safeguards that are mandated by state and federal regulations. C.11

Name
9. Apply knowledge of family theory and research to understand family and community characteristics including socioeconomic conditions; family structures, relationships, stressors, and supports (including the impact of having a child with diverse abilities); home language and ethnicity. C.12

Name
10. Demonstrate knowledge of and skill to access community resources that assist families and contribute directly or indirectly to childrens positive development such as mental health services, health care, adult education, English language instruction, and economic assistance. C.13

Name
11. Demonstrate effective written and oral communication skills when working with children, families, and early care, education, and family support professionals. E.14

Name
12. Demonstrate a commitment to leadership and advocacy for excellence in programs and services for young children and their families. G.6

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ECED1110 Child Growth, Development, and Learning and ENGL1110G Composition I or ENGL1110H Composition I Honors

Common Course Numbering Crosswalk

Past Course Numbers
ECED 135

ECED 2110 - Professionalism

General

Subject code	Course Number	Course Title
ECED	2110	Professionalism

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Recognize signs of emotional distress, child abuse, and neglect in young children and use procedures appropriate to the situation, such as initiating discussions with families, referring to appropriate professionals, and, in cases of suspected abuse or neglect, reporting to designated authorities. B.4

Name
2. Demonstrate ability to communicate to families the programs policies, procedures, and those procedural safeguards that are mandated by state and federal regulations. C.11

Name
3. Use both self and collaborative evaluations as part of ongoing program evaluations. F.12

Name
4. Demonstrate ability to adhere to early childhood professional codes of ethical conduct and issues of confidentiality. G.1

Name
5. Demonstrate awareness of federal, state, and local regulations, and public policies regarding programs and services for children birth through eight years of age. G.2

Name
6. Demonstrate understanding of conditions of children, families, and professionals; the historical and current issues and trends; legal issues; and legislation and other public policies affecting children, families, and programs for young children and the early childhood profession. G.3

Name
7. Demonstrate critical reflection of ones own professional and educational practices from community, state, national, and global perspectives. G.4

Name
8. Demonstrate understanding of the early childhood profession, its multiple historical, philosophical, and social foundations, and how these foundations influence current thought and practice. G.5

Name
9. Demonstrate knowledge in technology resources to engage in ongoing professional development. G.7

Common Course Numbering Crosswalk

Past Course Numbers
ECED 245

ECED 2115 - Introduction into Language, Literacy, and Reading

General

Subject code
ECED

Course Number
2115

Course Title
Introduction into Language, Literacy, and Reading

Description
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.
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Demonstrate knowledge of the many functions that language serves in the cognitive, social, and emotional aspects of development in the formative years. A.7

Name
2. Demonstrate knowledge of the developmental sequence of language and literacy, including the influence of culture and home factors. A.8

Name
3. Demonstrate knowledge of how children acquire and use verbal, non-verbal, and alternative means of communication. A.9

Name
4. Develop partnerships with family members to promote early literacy in the home. C.8

Name
5. Establish partnerships with community members in promoting literacy. C.10

Name
6. Demonstrate knowledge of the reading and writing components of emergent literacy at each developmental level. D.4

Name
7. Provide and use anti-bias materials/ literature and experiences in all content areas of the curriculum. D.7

Name
8. Create and manage a literacy-rich environment that is responsive to each childs unique path of development. E.9

Name
9. Use a variety of strategies during adult-child and child-child interactions and facilitate communication and dialogue of expressive language and thought. E.10

Name
10. Demonstrate a variety of developmentally appropriate instructional strategies that facilitate the development of literacy skills. E.11

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ECED1110 Child Growth, Development, and Learning and ENGL1110G Composition I or ENGL1110H Composition I Honors

Common Course Numbering Crosswalk

Past Course Numbers
ECED 235

ECED 2120 - Curriculum Development through Play Birth through Age 4 (PreK)

General

Subject code
ECED

Course Number
2120

Course Title
Curriculum Development through Play Birth through Age 4 (PreK)

Description
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. Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Use appropriate guidance to support the development of self-regulatory capacities in young children. A.11

Name
2. Demonstrate knowledge of relevant content for young children and developmentally appropriate ways of integrating content into teaching and learning experiences for children from birth to four (0-4) years of age. D.1

Name
3. Demonstrate the integration of knowledge of how young children develop and learn with knowledge of the concepts, inquiry tools, and structure of content areas appropriate for different developmental levels. D.2

Name
4. Adapt content to meet the needs of each child, including the development of individualized family service plans (IFSP) or individualized education plans (IEP) for children with diverse abilities through the team process with families and other team members. D.6

Name
5. Demonstrate knowledge of varying program models and learning environments that meet the individual needs of all young children, including those with diverse abilities. E.1

Name
6. Create environments that encourage active involvement, initiative, responsibility, and a growing sense of autonomy through the selection and use of materials and equipment that are suitable to individual learning, developmental levels, diverse abilities, and the language and cultures in New Mexico. E.2

Name
7. Create and manage inclusive learning environments that provide individual and cooperative opportunities for children to construct their own knowledge through various strategies that include decision-making, problem solving, and inquiry experiences. E.4

Name
8. Demonstrate understanding that each childs creative expression is unique and can be encouraged through diverse ways, including creative play. E.5

Name
9. Plan blocks of uninterrupted time for children to persist at self-chosen activities, both indoors and outdoors. E.6

Name
10. Demonstrate understanding of the influence of the physical setting, schedule, routines, and transitions on children and use these experiences to promote childrens development and learning. E.7

Name
11. Use and explain the rationale for developmentally appropriate methods that include play, small group projects, open-ended questioning, group discussion, problem solving, cooperative learning and inquiry experiences to help young children develop intellectual curiosity, solve problems, and make decisions. E.8

Name
12. Demonstrate a variety of developmentally appropriate instructional strategies that facilitate the development of emergent literacy skills. E.11

Name
13. Demonstrate knowledge of assessment techniques, interpretation of assessment information in the application of this data to curriculum development of intervention planning. F.9

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** ECED2121 Curriculum Development through Play Birth through Age 4 (PreK) Practicum
- **Prerequisite(s):** A grade of C or better in ECED1110 Child Growth, Development, and Learning and ENGL1110G Composition I or ENGL1110H Composition I Honors

Common Course Numbering Crosswalk

Past Course Numbers
ECED 215

ECED 2121 - Curriculum Development through Play Birth through Age 4 (PreK) Practicum

General

Subject code	Course Number	Course Title
ECED	2121	Curriculum Development through Play Birth through Age 4 (PreK) Practicum

Description
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. Repeatable: up to 2 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Provide a variety of activities that facilitate development of the whole child in the following areas: Physical/ motor, social/emotional, language/ cognitive and adaptive/living skills. A.5

Name
2.Develop, implement and evaluate an integrated curriculum that focuses on childrens development and interests, using their language, home experiences, and cultural values. D.5

Name
3.Provides and uses anti-bias materials and literature, and experiences in all content areas of the curriculum. D.7

Name
4.Create and manage inclusive learning environments that provide individual and cooperative opportunities for children to construct their own knowledge through various strategies that include decision-making, problem solving, and inquiry experiences. E.4

Name
5.Demonstrate understanding that each childs creative expression is unique and can be encouraged through diverse ways, including creative play. E.5

Name
6.Plan blocks of uninterrupted time for children to persist at self-chosen activities, both indoors and outdoors. E.6

Name
7.Demonstrate understanding of the influence of the physical setting, schedule, routines, and transitions on children and use these experiences to promote childrens development and learning. E.7

Name
8.Use and explain the rationale for developmentally appropriate methods that include play, small group projects, open-ended questioning, group discussion, problem solving, cooperative learning and inquiry experiences to help young children develop intellectual curiosity, solve problems, and make decisions. E.8

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** ECED2120 Curriculum Development through Play Birth through Age 4 (PreK)
- **Prerequisite(s):** A grade of C or better in ECED1110 Child Growth, Development, and Learning and ENGL1110G Composition I or ENGL1110H Composition I Honors

Common Course Numbering Crosswalk

Past Course Numbers
ECED 220

ECED 2130 - Curriculum Development and Implementation Age 3 (PreK) through Grade 3

General

Subject code	Course Number	Course Title
ECED	2130	Curriculum Development and Implementation Age 3 (PreK) through Grade 3

Description
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 IEPs is included.
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Use appropriate guidance to support the development of self-regulatory capacities in young children. A.11

Name
2.Demonstrate the integration of knowledge of how young children develop and learn with knowledge of the concepts, inquiry tools, and structure of content areas appropriate for different developmental levels. D.2

Name
3.Demonstrate knowledge of what is important in each content area, why it is of value, and how it links with early and later understandings within and across areas. D.3

Name
4.Demonstrate knowledge of the language, reading and writing components of emergent literacy at each developmental level. D.4

Name
5.Adapt content to meet the needs of each child, including the development of individualized family service plans (IFSP) or individualized education plans (IEP) for children with diverse abilities through the team process with families and other team members. D.6

Name
6.Demonstrate knowledge of varying program models and learning environments that meet the individual needs of all young children, including those with diverse abilities. E.1

Name
7.Create environments that encourage active involvement, initiative, responsibility, and a growing sense of autonomy through the selection and use of materials and equipment that are suitable to individual learning, developmental levels, diverse abilities, and the language and cultures in New Mexico. E.2

Name
8.Create and manage inclusive learning environments that provide individual and cooperative opportunities for children to construct their own knowledge through various strategies that include decision-making, problem solving, and inquiry experiences. E.4

Name
9.Demonstrate understanding that each childs creative expression is unique and can be encouraged through diverse ways, including creative play. E.5

Name
10.Plan blocks of uninterrupted time for children to persist at self-chosen activities, both indoors and outdoors. E.6

Name
11.Demonstrate understanding of the influence of the physical setting, schedule, routines, and transitions on children and use these experiences to promote childrens development and learning. E.7

Name
12.Demonstrate knowledge of developmentally appropriate uses of technology, including assistive technology. E.12

Name
13.Demonstrate knowledge of assessment techniques, interpretation of assessment information in the application of this data to curriculum development of intervention planning. F.9

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** ECED2131 Curriculum Dvlpmnt & Implementation Age 3 (PreK) through Grade 3 Practicum
- **Prerequisite(s):** A grade of C or better in ECED1110 Child Growth, Development, and Learning, ECED2120 Curriculum Development through Play Birth through Age 4 (PreK) and ECED2121 Curriculum Development through Play Birth through Age 4 (PreK) Practicum

Common Course Numbering Crosswalk

Past Course Numbers
ECED 225

ECED 2131 - Curriculum Dvlpmnt & Implementation Age 3 (PreK) through Grade 3 Practicum

General

Subject code	Course Number	Course Title
ECED	2131	Curriculum Dvlpmnt & Implementation Age 3 (PreK) through Grade 3 Practicum

Description
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.
Repeatable: up to 2 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Provide a variety of activities that facilitate development of the whole child in the following areas: Physical/ motor, social/emotional, language/ cognitive and adaptive/living skills. A.5

Name
2.Develop, implement and evaluate an integrated curriculum that focuses on childrens development and interests, using their language, home experiences, and cultural values. D.5

Name
3.Provides and uses anti-bias materials and literature, and experiences in all content areas of the curriculum. D.7

Name
4.Create and manage inclusive learning environments that provide individual and cooperative opportunities for children to construct their own knowledge through various strategies that include decision-making, problem solving, and inquiry experiences. E.4

Name
5.Demonstrate understanding that each childs creative expression is unique and can be encouraged through diverse ways, including creative play. E.5

Name
6.Plan blocks of uninterrupted time for children to persist at self-chosen activities, both indoors and outdoors. E.6

Name
7.Demonstrate understanding of the influence of the physical setting, schedule, routines, and transitions on children and use these experiences to promote childrens development and learning. E.7

Name
8.Use and explain the rationale for developmentally appropriate methods that include play, small group projects, open-ended questioning, group discussion, problem solving, cooperative learning and inquiry experiences to help young children develop intellectual curiosity, solve problems, and make decisions. E.8

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** ECED2130 Curriculum Development and Implementation Age 3 (PreK) through Grade 3
- **Prerequisite(s):** A grade of C or better in ECED1110 Child Growth, Development, and Learning, ECED2120 Curriculum Development through Play Birth through Age 4 (PreK) and ECED2121 Curriculum Development through Play Birth through Age 4 (PreK) Practicum

Common Course Numbering Crosswalk

Past Course Numbers
ECED 230

ECED 2140 - Effective Program Development for Diverse Learners and their Families

General

Subject code	Course Number	Course Title
ECED	2140	Effective Program Development for Diverse Learners and their Families

Description
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. Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Describe important aspects of leadership that an administrator in an early childhood setting must demonstrate.

Name
2.Identify and describe ways in which classrooms can have a multicultural environment.

Name
3.Observe a classroom and identify, using photographs, good practice with classroom environment.

Name
4.Describe important aspects of a good early childhood curriculum.

Name
5.Describe how culture and socioeconomic factors influence classroom environment.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): ECED2141 Effective Program Development for Diverse Learners and their Families Pract

Common Course Numbering Crosswalk

Past Course Numbers
ECED 275

ECED 2141 - Effective Program Development for Diverse Learners and their Families Pract

General

Subject code
ECED

Course Number
2141

Course Title
Effective Program Development for Diverse Learners and their Families Pract

Description
Provides opportunities for students to apply knowledge gained from Curriculum for Diverse Learners and their Families in a practicum setting. Restricted to: ECED majors.
Repeatable: up to 2 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Describe the requirements to maintain and enhance the physical and mental health, safety, and nutrition components of a program.

Name
2. Demonstrate knowledge of facility management to include evaluation, maintenance, security, and meeting applicable codes.

Name
3. Demonstrate knowledge of planning for appropriate indoor and outdoor environments; Identify ways to support early childhood educators in the selection of appropriate materials and equipment for the environment.

Name
4. Demonstrate knowledge of the impact of the environment on childrens learning and development.

Name
5. Demonstrate knowledge of early care and education curriculum that is individually, culturally linguistically, and developmentally responsive.

Name
6. Describe a variety of curriculum goals and teaching strategies.

Name
7. Describe the importance of ongoing curriculum assessment and planning, and collaboration with teachers, families and community entities; Identify ways to support early childhood educators in curriculum assessment and planning.

Name
8. Demonstrate knowledge of family/ community involvement in effective program development.

Name
9. Describe the importance of supporting families as partners in early care and education program development.

Name
10. Describe both informal and formal communication systems with families that encourage information sharing and joint decision making.

Name
11. Identify strategies for resolving conflicts and supporting families with diverse backgrounds and parenting expectations.

Name
12. Identify the range of family needs including transitional periods.

Name
13. Identify within the community the network to support families with their special need.

Name
14. Describe a family friendly inclusive philosophy.

Name
15. Demonstrate knowledge of a directors role as an educational leader in an inclusive setting.

Name
16. Describe what a director does in supporting the instructional component of the program for children, staff, and families.

Name
17. Identify resources that a director might use to keep current with information relating to the instructional component of the program.

Name
18. Describe ways to involve teachers in instructional decision making.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): ECED2140 Effective Program Development for Diverse Learners and their Families

Common Course Numbering Crosswalk

Past Course Numbers
ECED 276

ECED 2215 - Program Management

General

Subject code	Course Number	Course Title
ECED	2215	Program Management

Description
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.
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Develop a comprehensive program philosophy.

Name
2.Demonstrate the ability to develop systems that are effective for quality program operation.

Name
3.Create a program budget and understand the Income and Expense sides and what affects each part.

Name
4.Model best practices that integrate various leadership styles.

Common Course Numbering Crosswalk

Past Course Numbers
ECED 270

ECED 2280 - Professional Relationships

General

Subject code	Course Number	Course Title
ECED	2280	Professional Relationships

Description
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.
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Interview an administrator and write a paper describing personnel management, staff support, supervision, and professional development.

Name
2.Identify and describe ethical and legal requirements in maintaining a professional relationship with subordinates, the community, clients, and fellow administrators.

Name
3.Identify and describe technologies which may be used in an early childhood setting.

Prerequisites/Corequisites

Free Form Requirements

Corequisite(s): ECED2281 Professional Relationships Practicum

Common Course Numbering Crosswalk

Past Course Numbers
ECED 280

ECED 2281 - Professional Relationships Practicum

General

Subject code	Course Number	Course Title
ECED	2281	Professional Relationships Practicum

Description
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. Restricted to ECED majors.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): ECED2280 Professional Relationships

Common Course Numbering Crosswalk

Past Course Numbers
ECED 281

ECON 1110G - Survey of Economics

General

Subject code	Course Number	Course Title
ECON	1110G	Survey of Economics

Description
This course will develop students' economics literacy and teach 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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Gain and demonstrate a contextual understanding of economic terms and concepts.

Name
2. Recognize and analyze common economic issues which relate to individual markets and the aggregate economy.

Name
3. Learn basic economic principles that influence global trading and challenges relating to globalization.

Name
4. Outline the implications of various economic policies on individuals and on economies.

Name
5. Demonstrate ability to use diagrams and graphs to explain economic principles, policies and their applications.

Name
6. Appreciate and understand how individual decisions and actions, as a member of society, affect economies locally, nationally and internationally.

Name
7. Explain the roles of governments in influencing buyer and seller behavior in the market and how government failure occurs when intervention fails to improve or actually worsens economic outcomes.

Name
8. Be able to apply course concepts to interpret, evaluate and think critically about economic events and policies, especially as regularly reported in the media and other public forums.

Common Course Numbering Crosswalk

Past Course Numbers
ECON 201G

ECON 2110G - Macroeconomic Principles

General

Subject code	Course Number	Course Title
ECON	2110G	Macroeconomic Principles

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Explain the concepts of opportunity cost, comparative advantage and exchange.

Name
2. Demonstrate knowledge of the laws of supply and demand and equilibrium and use supply and demand curves to analyze responses of markets to external events.

Name
3. Explain the circular flow model and use the concepts of aggregate demand and aggregate supply to analyze the response of the economy to disturbances.

Name
4. Explain the concepts of gross domestic product, inflation and unemployment and how they are measured.

Name
5. Describe the determinants of the demand for money, the supply of money and interest rates and the role of financial institutions in the economy.

Name
6. Define fiscal policy and monetary policies and how these affect the economy.

Name
7. Students will be able to identify the causes of prosperity, growth, and economic change over time and explain the mechanisms through which these causes operate in the economy.

Common Course Numbering Crosswalk

Past Course Numbers
ECON 251G

ECON 2110H - Macroeconomic Principles (Honors)

General

Subject code	Course Number	Course Title
ECON	2110H	Macroeconomic Principles (Honors)

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Explain the concepts of opportunity cost, comparative advantage and exchange.

Name
2. Demonstrate knowledge of the laws of supply and demand and equilibrium and use supply and demand curves to analyze responses of markets to external events.

Name
3. Explain the circular flow model and use the concepts of aggregate demand and aggregate supply to analyze the response of the economy to disturbances.

Name
4. Explain the concepts of gross domestic product, inflation and unemployment and how they are measured.

Name
5. Describe the determinants of the demand for money, the supply of money and interest rates and the role of financial institutions in the economy.

Name
6. Define fiscal policy and monetary policies and how these affect the economy.

Name
7. Students will be able to identify the causes of prosperity, growth, and economic change over time and explain the mechanisms through which these causes operate in the economy.

Common Course Numbering Crosswalk

Past Course Numbers
ECON 251GH

ECON 2120G - Microeconomic Principles

General

Subject code	Course Number	Course Title
ECON	2120G	Microeconomic Principles

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Explain the concept of opportunity cost.

Name
2. Demonstrate knowledge of the laws of supply and demand and equilibrium.

Name
3. Use supply and demand curves to analyze responses of markets to external events.

Name
4. Use supply and demand analysis to examine the impact of government intervention.

Name
5. Explain and calculate price elasticity of demand and other elasticities.

Name
6. Demonstrate an understanding of producer choice, including cost and break-even analysis.

Name
7. Compare and contrast the following market structures: perfect competition, monopoly, monopolistic competition, and oligopoly.

Common Course Numbering Crosswalk

Past Course Numbers
ECON 252G

ECON 2120H - Microeconomic Principles (Honors)

General

Subject code	Course Number	Course Title
ECON	2120H	Microeconomic Principles (Honors)

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Explain the concept of opportunity cost.

Name
2. Demonstrate knowledge of the laws of supply and demand and equilibrium.

Name
3. Use supply and demand curves to analyze responses of markets to external events.

Name
4. Use supply and demand analysis to examine the impact of government intervention.

Name
5. Explain and calculate price elasticity of demand and other elasticities.

Name
6. Demonstrate an understanding of producer choice, including cost and break-even analysis.

Name
7. Compare and contrast the following market structures: perfect competition, monopoly, monopolistic competition, and oligopoly.

Common Course Numbering Crosswalk

Past Course Numbers
ECON 252GH

EDLT 2110 - Integrating Technology with Teaching

General

Subject code	Course Number	Course Title
EDLT	2110	Integrating Technology with Teaching

Description
Considers impact of technology on communication and knowledge development; engages students in the design of technology-integrated lessons with a constructivist approach.

General Education Course
Academic

Learning Outcomes

Name
1. Demonstrate a sound understanding of technology operations and concepts.

Name
2. Plan and design effective learning environments and experiences supported by technology.

Name
3. Implement curriculum plans that include methods and strategies for applying technology to maximize learning.

Name
4. Apply technology to facilitate a variety of effective assessment and evaluation strategies.

Name
5. Use technology to enhance their productivity and professional practice.

Name
6. Better understand the social, ethical, legal, and human issues surrounding the use of technology in PreK-12 schools and apply that knowledge into future practice.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ENGL1110G Composition I

Common Course Numbering Crosswalk

Past Course Numbers
EDLT 268

EDUC 1110 - Freshman Orientation

General

Subject code	Course Number	Course Title
EDUC	1110	Freshman Orientation

Description
Introduction to the University and the College of Education. Discussion of planning for individualized education program and field experience. Repeatable: up to 1 credit.

General Education Course
Academic

Learning Outcomes

Name
1.Demonstrates knowledge of and uses theories, approaches, methods, and techniques for teaching, reading, writing, and other academic skills in English and the native language.

Name
2.Demonstrates knowledge of and applies management techniques appropriate to classrooms containing students who have varying levels of proficiency and academic experience in both languages.

Name
3.Community/Family Involvement-The bilingual teacher: Recognizes the importance of parental and community involvement for facilitating the learners successful integration to his/her school environment.

Name
4.Community/Family Involvement-The bilingual teacher: Demonstrates knowledge of the teaching and learning patterns of the students home environment and incorporates these into the instructional areas of program.

Name
5.Assessment-The bilingual teacher: Assesses oral and written language proficiency in academic areas in both languages utilizing the results for instructional placement, prescription, and evaluation.

Name
6.Assessment-The bilingual teacher: Evaluates the growth of the learners native and second language in the context of the curriculum.

Name
7.Assessment-The bilingual teacher: Continuously assesses and adjusts her or his own language use in the classroom in order to maximize learner comprehension and verbal participation.

Common Course Numbering Crosswalk

Past Course Numbers
EDUC 101

EDUC 1120 - Introduction to Education

General

Subject code	Course Number	Course Title
EDUC	1120	Introduction to Education

Description
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. Repeatable: up to 2 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Describe the teaching and learning of various American education settings including early childhood, elementary, middle school, high school, and special education.

Name
2.Describe how teachers use educational theory and the results of research of students learning.

Name
3.Explain the techniques for establishing a positive and supportive environment in the classroom.

Name
4.Identify and describe instructional strategies supported by current research to promote thinking skills of all learners.

Name
5.Recognize the teachers role and responsibilities in an increasingly diverse, multicultural society.

Common Course Numbering Crosswalk

Past Course Numbers
EDUC 250

EDUC 1140 - Math for Paraprofessionals

General

Subject code	Course Number	Course Title
EDUC	1140	Math for Paraprofessionals

Description
Applied math skills for paraprofessionals working with children. Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Students will plan developmentally appropriate math activities for young children.

Name
2.Students will plan adaptations to math activities for children with diverse abilities.

Name
3.Students will demonstrate understanding of recent research in methods of teaching mathematics.

Name
4.Students will demonstrate understanding of early childhood theories as they relate to the teaching of mathematics.

Name
5.Students will demonstrate understanding of unique needs of children from diverse economic or cultural backgrounds.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CCDM103 N Pre-Algebra

Common Course Numbering Crosswalk

Past Course Numbers
EDUC 150

EDUC 1150 - Math for Paraprofessionals II

General

Subject code	Course Number	Course Title
EDUC	1150	Math for Paraprofessionals II

Description
Applied math skills for paraprofessionals working under the direction of a teacher. Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Students will plan developmentally appropriate math activities for young children.

Name
2.Students will plan adaptations to math activities for children with diverse abilities.

Name
3.Students will demonstrate understanding of recent research in methods of teaching mathematics.

Name
4.Students will demonstrate understanding of early childhood theories as they relate to the teaching of mathematics.

Name
5.Students will demonstrate understanding of unique needs of children from diverse economic or cultural backgrounds.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in EDUC1140 Math for Paraprofessionals

Common Course Numbering Crosswalk

Past Course Numbers
EDUC 151

EDUC 1185 - Introduction to Secondary Education and Youth

General

Subject code	Course Number	Course Title
EDUC	1185	Introduction to Secondary Education and Youth

Description
troductory 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.
Restricted to: Secondary Ed majors.

General Education Course
Academic

Learning Outcomes

Name
1.Articulate the attributes of an education professional entering the field.

Name
2.Differentiate and summarize the major educational philosophies and historical events that have influenced the progression of educational practice.

Name
3.Describe the role of law in education with emphasis on the rights and responsibilities of teachers and learners.

Name
4.Develop a preliminary personal philosophy of teaching and learning.

Name
5.Discuss the characteristics and roles of the teacher, the student, and the school in todays education.

Name
6.Identify effective teaching methods, instructional strategies and learning styles.

Name
7.Evaluate the Lesson Planning Process using various lesson planning templates, formats, and rubrics.

Name
8.Explain classroom management techniques.

Name
9.Identify different types of diversity in the classroom environment.

Name
10.Describe how learning differences are manifested in schools.

Name
11.Describe how teachers use multiple methods of assessment to engage learners in their own growth, to monitor learner progress.

Name
12.Describe how teachers use multiple methods of assessment to modify instruction and inform decision making.

Name
13.Identify the role of Standards and High Stakes Testing in the life of an educational professional.

Name
14.Complete 24 hours internship in a classroom, preferably a bilingual classroom.

Name
15.Document and reflect on your observations throughout your internship.

Name
16.Construct an individualized map to teacher licensure in the State of New Mexico.

Common Course Numbering Crosswalk

Past Course Numbers
EDUC 281

EDUC 1995 - Cooperative Education in Education

General

Subject code	Course Number	Course Title
EDUC	1995	Cooperative Education in Education

Description
Introduction to public school teaching, school visits, classroom observations and discussion seminar.
Repeatable: up to 1 credit.

General Education Course
Academic

Learning Outcomes

Name
1. Demonstrate an understanding of personal attitudes and motivations for entering the field of education.

Name
2. Identify effective teaching strategies that enhance Student Learning Outcomes.

Name
3. Identify classroom management techniques and learning styles.

Name
4. Develop observational skills and reflective thinking skills.

Name
5. Evaluate instructional methods that enhance upper level thinking skills in children.

Common Course Numbering Crosswalk

Past Course Numbers
EDUC 181

EDUC 1996 - Topics in Education

General

Subject code	Course Number	Course Title
EDUC	1996	Topics in Education

Description
Varies
Repeatable: up to 9 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
EDUC 195

EDUC 1998 - Internship in Education

General

Subject code	Course Number	Course Title
EDUC	1998	Internship in Education

Description
Supervised experience in elementary education settings.
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
EDUC 102

EDUC 2710 - Pre-Teacher Preparation

General

Subject code	Course Number	Course Title
EDUC	2710	Pre-Teacher Preparation

Description
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.
Graded: S/U.
Repeatable: up to 6 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Investigate the process and requirements of the Teacher Education Program.

Name
2.Read critically about teachers experiences and write brief reactions.

Name
3.Discuss philosophies of education and draft a written personal philosophy of education.

Name
4.Discuss the nature of education for students with diverse languages, cultures and abilities.

Name
5.Draft personal position statements concerning education for students with disabilities and diverse cultures.

Common Course Numbering Crosswalk

Past Course Numbers
EDUC 219

EDUC 2998 - Field Experience in Education

General

Subject code	Course Number	Course Title
EDUC	2998	Field Experience in Education

Description
Supervised experience in junior high settings.
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
EDUC 202

ELAD 2340 - Multicultural Leadership in Education

General

Subject code	Course Number	Course Title
ELAD	2340	Multicultural Leadership in Education

Description
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.
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Develop awareness of their own social identities.

Name
2.Students will recognize differences among various communities, perspectives, and world-views.

Name
3.Describe how privilege and biases impact our communities and systems.

Name
4.Create meaningful peer-to-peer relationships.

Name
5.Understand the impact of their actions on community members.

Name
6.Identify their leadership skills to shape social change on and off campus.

Name
7.Act on opportunities to promote social change.

Name
8.Students will use academic resources including advising, computers, printing, library, and space.

Common Course Numbering Crosswalk

Past Course Numbers
ELA 215

ELAD 2810 - Leadership and Change in Education

General

Subject code	Course Number	Course Title
ELAD	2810	Leadership and Change in Education

Description
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.
Repeatable: up to 3 credits.

General Education Course
Academic

ELAD 2996 - Topics in Education

General

Subject code	Course Number	Course Title
ELAD	2996	Topics in Education

Description
Special topics course in education for undergraduate students. Course will be identified by a subtitle.
Repeatable: up to 12 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Students will be able to engage in systems thinking which aids in seeing how individual situations are shaped by a broader contexts.

Name
2.Students will be able to understand how to apply theoretical frameworks for understanding social problems.

Name
3.Students will be able to help develop leadership capacity in others.

Name
4.Students will be able to gain an understanding of cultural competence, which recognizes that diverse perspectives strengthen the dialogue and approaches to solving social problems.

Common Course Numbering Crosswalk

Past Course Numbers
ELA 298

ELT 220 - Electronic Communication Systems

General

Subject code	Course Number	Course Title
ELT	220	Electronic Communication Systems

Description
Principles and applications of circuits and devices used in the transmission, reception, and processing of RF, microwave, digital and telecommunications systems.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

ELTR 1110 - Basic Electricity and Controls

General

Subject code	Course Number	Course Title
ELTR	1110	Basic Electricity and Controls

Description
The course presents the basic principles of electricity, measurements, safety, wiring procedures, schematics, components of basic circuits, and principles and practices in electricity.

General Education Course
Technical

Learning Outcomes

Name
1. Use Ohn's Law to solve circuit problems and calculate circuit loads.

Name
2. Identify types of electrical loads (capacitive, inductive and resistive).

Name
3. Explain environmental safety practices as applied to electricity.

Name
4. Demonstrate the use of lockout/ tagout equipment.

Name
5. Define amps, volts, ohms and watts and demonstrate safe use of tools for the basic types of electrical measurement.

Name
6. Follow electrical schematics to determine sequence of operation and troubleshooting.

ELTR 2996 - Topics in Electricity

General

Subject code	Course Number	Course Title
ELTR	2996	Topics in Electricity

Description
Varies, Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

EMSS 1XXX - Emergency Medical Services Coursedog course

General

Subject code	Course Number	Course Title
EMSS	1XXX	Emergency Medical Services Coursedog course

Description
EMSS Course to create subject code in Coursedog.

ENER 1110 - Introduction to the Energy Industry

General

Subject code	Course Number	Course Title
ENER	1110	Introduction to the Energy Industry

Description
This foundational course introduces students to the energy industry with a focus on real-world applications in the Permian Basin. Through a series of five authentic, project-based experiences, students explore how energy systems are designed, selected, and implemented to meet global and local energy demands. Students will investigate various renewable and nonrenewable energy sources, analyze geological and technical data to determine drilling locations, and propose engineering solutions to real challenges faced by professionals in oil and gas operations. Students will gain hands-on experience using industry-relevant equipment and develop critical technical skills in GIS mapping, engineering design, technical communication, and decision-making using tools such as decision matrices, engineering notebooks, and technical posters.

ENER 1120 - Energy Systems Engineering and Safety

General

Subject code	Course Number	Course Title
ENER	1120	Energy Systems Engineering and Safety

Description
This course builds on foundational knowledge from ENER 1110, focusing on technical applications in energy systems design, pipeline transport, electrical generation/distribution, and industrial safety. Students will engage in project-based learning aligned to real-world industry standards. Key skills include engineering design, cost estimation, safety analysis, and communication with authentic audiences. Students will use professional tools and industry-grade equipment such as Festo trainers to simulate and solve problems common in energy careers.

ENER 2110 - Application of Integrated Energy Systems

General

Subject code	Course Number	Course Title
ENER	2110	Application of Integrated Energy Systems

Description
In this advanced-level course, students explore the critical systems and technologies that drive modern oil and gas production. With a focus on real-world engineering applications, students investigate artificial lift systems, pipeline operations, and the role of automation in optimizing hydrocarbon production. Using industrial-grade trainers—including PLCs, pump systems, pneumatics, hydraulics, and industrial controls—students gain practical skills and technical understanding required for careers in energy production and automation. Students take on the roles of field engineers, control technicians, and operations planners in a series of industry-relevant projects. These include designing and automating artificial lift systems, optimizing pipeline infrastructure, and implementing safety-critical logic using PLCs. Emphasis is placed on systems thinking, troubleshooting, and applying technical knowledge to real production challenges in the Permian Basin.

ENGL 1110G - Composition I

General

Subject code	Course Number	Course Title
ENGL	1110G	Composition I

Description
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.

General Education Course
Area I, Academic

Learning Outcomes

Name
1. Analyze communication through reading and writing skills.

Name
2. Employ writing processes such as planning, organizing, composing, and revising.

Name
3. Express a primary purpose and organize supporting points logically.

Name
4. Use and document research evidence appropriate for college-level writing.

Name
5. Employ academic writing styles appropriate for different genres and audiences.

Name
6. Identify and correct grammatical and mechanical errors in their writing.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT standard score in English of 16 or higher, or an Accuplacer score 250 or higher, or an SAT score of 430-579 or higher or a grade of C or better in CCDE110 N General Composition with a C or better

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 111G

ENGL 1110H - Composition I Honors

General

Subject code	Course Number	Course Title
ENGL	1110H	Composition I Honors

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Analyze communication through reading and writing skills.

Name
2. Employ writing processes such as planning, organizing, composing, and revising.

Name
3. Express a primary purpose and organize supporting points logically.

Name
4. Use and document research evidence appropriate for college-level writing.

Name
5. Employ academic writing styles appropriate for different genres and audiences.

Name
6. Identify and correct grammatical and mechanical errors in their writing.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT standard score in English of 25 or higher or an SAT score of 550 or higher

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 111GH

ENGL 1120 - Composition II

General

Subject code	Course Number	Course Title
ENGL	1120	Composition II

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Analyze the rhetorical situation for purpose, main ideas, support, audience, and organizational strategies in a variety of genres.

Name
2.Employ writing processes such as planning, organizing, composing, and revising.

Name
3.Use a variety of research methods to gather appropriate, credible information.

Name
4.Evaluate sources, claims, and evidence for their relevance, credibility, and purpose.

Name
5.Quote, paraphrase, and summarize sources ethically, citing and documenting them appropriately.

Name
6.Integrate information from sources to effectively support claims as well as other purposes (to provide background information, evidence/ examples, illustrate an alternative view, etc.).

Name
7.Use an appropriate voice (including syntax and word choice).

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ENGL1110G Composition I or ENGL1110H Composition I Honors

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 112

ENGL 1410G - Introduction to Literature

General

Subject code	Course Number	Course Title
ENGL	1410G	Introduction to Literature

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Identify, define, and understand basic literary conventions and themes in fiction, poetry and drama.

Name
2. Write reasonable, well-supported analyses of literature that ethically integrate evidence from texts.

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 115G

ENGL 2130G - Advanced Composition

General

Subject code	Course Number	Course Title
ENGL	2130G	Advanced Composition

Description
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 popular press. Short works of master writers are studied for ideas, style and structure.

General Education Course
Area I, Academic

Learning Outcomes

Name
1. Students will examine and apply different writing styles and modes used by masters of personal essay and keep a reading response journal of assigned readings as demonstrated by scoring a 70% in faculty designed assignments.

Name
2. Students will develop a sense of audience by discussing their papers with each other in small groups during class or by reading each others papers and participating in positive, helpful peer reviews as demonstrated by scoring a 70% in faculty designed assignments.

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 311G

ENGL 2210G - Professional & Technical Communication

General

Subject code	Course Number	Course Title
ENGL	2210G	Professional & Technical Communication

Description
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.

General Education Course
Area I, Academic

Learning Outcomes

Name
1. Choose professional communication appropriate for audiences and situations.

Name
2. Write in different genres of professional communication.

Name
3. Identify the purpose of a work-related communication and assess the audiences' informational needs and organizational constraints.

Name
4. Employ appropriate design/visuals to support and enhance various texts.

Name
5. Demonstrate effective collaboration and presentation skills.

Name
6. Integrate research and information from credible sources into professional communication.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ENGL1110G Composition I or ENGL1110H Composition I Honors

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 218G

ENGL 2210H - Professional and Technical Communication Honors

General

Subject code	Course Number	Course Title
ENGL	2210H	Professional and Technical Communication Honors

Description
Professional and Technical Communication writing for 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.

General Education Course
Area I, Academic

Learning Outcomes

Name
1. Choose professional communication appropriate for audiences and situations.

Name
2. Write in different genres of professional communication.

Name
3. Identify the purpose of a work-related communication and assess the audiences' informational needs and organizational constraints.

Name
4. Employ appropriate design/visuals to support and enhance various texts.

Name
5. Demonstrate effective collaboration and presentation skills.

Name
6. Integrate research and information from credible sources into professional communication.

ENGL 2215G - Advanced Technical and Professional Communication

General

Subject code	Course Number	Course Title
ENGL	2215G	Advanced Technical and Professional Communication

Description
Theory and practice of writing in technical and professional fields, individualized to each student's field. Emphasizes efficient writing processes and effective written products.
Repeatable: up to 3 credits.

General Education Course
Area I, Academic

Learning Outcomes

Name
1. To complicate the definition of "technical and scientific communication" and its relationship(s) to studying and practicing "rhetoric."

Name
2. To complicate our relationship to concepts like "science", "knowledge, "objectivity," neutrality, "clarity," etc.

Name
3. To use a community-based approach to study and practice technical and scientific documents within various discourse communities.

Name
4. To study and practice different genres (i.e. memos, letters, e-mails, reports, proposals, and instruction sets) attending to issues of audience and purpose within discourse communities.

Name
5. To practice some mindful reading strategies that allow you to attend to the use of language and its material and discursive effects in different situations.

Name
6. To examine the material effects of producing, circulating, and consuming technical and scientific texts on the bodies of people within different contexts.

Name
7. To complicate our understanding of "ethics," "responsibility," and "accountability" toward ourselves and others.

Name
8. To work collaboratively and individually to research, to analyze, and to write about public debates regarding the conduct of science and technology.

Name
9. To understand and use basic principles of document design attending to issues of usability and accessibility.

Name
10. To articulate the relationship between technical and scientific communication and issues of inclusion and social justice in the world.

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 318G

ENGL 2221G - Writing in the Humanities and Social Science

General

Subject code	Course Number	Course Title
ENGL	2221G	Writing in the Humanities and Social Science

Description
Theory and practice of writing in interpreting texts from various disciplines in the humanities and social sciences. Strategies for researching, evaluating, constructing, and writing researched arguments. Courses subtitled in the Class Schedule. Repeatable: up to 3 credits.

General Education Course
Area I, Academic

Learning Outcomes

Name
1. Choose professional communication appropriate for audiences and situations.

Name
2. Write in different genres of professional communication.

Name
3. Identify the purpose of a work-related communication and assess the audiences' informational needs and organizational constraints.

Name
4. Employ appropriate design/visuals to support and enhance various texts.

Name
5. Demonstrate effective collaboration and presentation skills.

Name
6. Integrate research and information from credible sources into professional communication.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ENGL1110G Composition I or ENGL1110H Composition I Honors

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 211G

ENGL 2280 - History of Argument

General

Subject code	Course Number	Course Title
ENGL	2280	History of Argument

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Understand how rhetoric, argument, and persuasion work. Become familiar with the key terms and various contexts in which rhetoric, argument, and persuasion function and the contingencies that influence their use and effectiveness.

Name
2.Be familiar with the broad history and major figures of western rhetoric.

Name
3.Apply a number of approaches used to analyze and construct/deconstruct rhetorical arguments, including (but not limited to) Aristotelian appeals and commonplaces, stasis theory, toulmin analysis, pentadic/dramatistic analysis, fallacy analysis, and Rogerian analysis.

Name
4.Complete an analysis as well as design and present a project regarding a contemporary issue or concern about which you feel deep passion and commitment; and

Name
5.Improve general critical thinking and communication skills, both oral and written.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ENGL1110G Composition I or ENGL1110H Composition I Honors

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 263

ENGL 2310G - Introduction to Creative Writing

General

Subject code	Course Number	Course Title
ENGL	2310G	Introduction to Creative Writing

Description
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 the "workshop" course is on students revising and reflecting on their own writing. Throughout this course, students will be expected to read poetry, fiction, and non-fiction closely, and analyze the craft features employed. They will be expected to write frequently in each of these genres.
Repeatable: up to 3 credits.

General Education Course
Area VI, Academic

Learning Outcomes

Name
1. Participate in a constructive conversation and community about creative writing.

Name
2. Read and critically engage with a variety of texts.

Name
3. Compose creative works in various genres of creative writing.

Name
4. Provide respectful, honest, and critical feedback to peers about their work.

Name
5. Revise creative work based on peer feedback and critique.

Name
6. Develop thoughtful workshop reflection on students' own writing and writing process.

Name
7. Evaluate and engage with publication process.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ENGL1110G Composition I or ENGL1110H Composition I Honors

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 220G

ENGL 2381 - Script Development and Storyboarding

General

Subject code	Course Number	Course Title
ENGL	2381	Script Development and Storyboarding

Description
Examines effective writing principles for creating storyboards that communicate the overall picture of a project, timing, scene complexity, emotion and resource requirements.
Crosslist: FDMA 2381.

General Education Course
Academic

Learning Outcomes

Name
1.Develop a story idea into a complete storyboard.

Name
2.Describe and visualize the creative aspects of a media project from conception to completion.

Name
3.Write a scene in the professional script format.

Name
4.Deliver a professional verbal and visual presentation of a story idea to an audience.

Name
5.The ability to conceive, illustrate and plan a visual project.

Name
6.Proficiency in oral, written, and visual communication via storyboarding, script writing and verbal presentations.

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 232

ENGL 2382 - Narrative: Principles of Story Across the Media

General

Subject code	Course Number	Course Title
ENGL	2382	Narrative: Principles of Story Across the Media

Description
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.
Crosslist: FDMA 2382

General Education Course
Academic

Learning Outcomes

Name
1.Identify & use the building blocks of storytelling: plot, theme, character, imagery.

Name
2.Symbolism and point of view.

Name
3.Develop these building blocks into a cohesive narrative within a written document.

Name
4.Effectively communicate in different written formats.

Name
5.Create design documents for varied genres of media: narrative short, documentary.

Name
6.Animation, commercial/industrial video, computer game.

Name
7.Describe how a written narrative can be translated into a visual medium.

Name
8.Demonstrate the ability to identify and use the building blocks of storytelling: Plot, theme, character, imagery, symbolism and point of view.

Name
9.Demonstrate how these building blocks work together to create a cohesive narrative within a written document.

Name
10.Demonstrate competency in effective written communication.

Name
11.Apply the elements of storytelling in creating design documents for varied formats of media: narrative short, documentary, animation, commercial/industrial video, computer game

Name
12.Demonstrate the understanding of how a written narrative can be translated into a visual medium.

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 235

ENGL 2520G - Film as Literature

General

Subject code	Course Number	Course Title
ENGL	2520G	Film as Literature

Description
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. (3+3P)

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Develop an understanding of the cultural, historical, and technical contexts for various films.

Name
2. Identify, define, and analyze basic film techniques used in different genres and time periods.

Name
3. Analyze how film uses literature by studying different sources of adaptation.

Name
4. Demonstrate an understanding of film in its various aspects by writing film analysis, reviews, and/or other projects.

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 116G

ENGL 2521 - The Bible as Literature

General

Subject code	Course Number	Course Title
ENGL	2521	The Bible as Literature

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Develop and articulate historically informed and textually supported arguments regarding the form and meaning of biblical texts.

Name
2.Express arguments and explication in clear, organized.

Name
3.Understand the Jewish and Christian scriptures as cultural artifacts, using some fundamental techniques of literary analysis and interpretation, especially: thematic interpretation, stylistic analysis, narrative analysis, poetics, and the rhetorical analysis of figurative language.

Name
4.Use socio-historically informed interpretive methods focused on these fundamental contextual questions : who probably wrote and edited these texts; why and how they most likely did so; how their earliest audiences probably responded to them, and; why and how they were later combined to form the canonical Jewish and Christian bibles read today.

Name
5.Know in detail substantial selections of representative, influential, and historically informative biblical texts.

Name
6.Distinguish literary critical and historical analysis of the Bible from those based on faith, tradition, authority, and theology.

Name
7.Recognize, understand, and analyze the forms, genres, and techniques used by biblical authors.

Name
8.Become familiar with and be able to use essential knowledge of the historical, cultural, and geographical contexts of Biblical writing.

Name
9.Learn how evaluate texts as historical documents, as well as how doing so relates to and differs from literary critical analysis and interpretation.

Name
10.Become familiar with common and influential scholarly, critical, and aesthetic ways of reading Biblical texts from a contemporary perspective.

Name
11.Understand the cultural influence of the Bible and its relevance for other areas of scholarly and artistic work.

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 243

ENGL 2610 - American Literature I

General

Subject code	Course Number	Course Title
ENGL	2610	American Literature I

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Recognize the traditions of American literature and their connection to issues of culture, race, class, and gender.

Name
2.Demonstrate familiarity with a variety of major works by American authors.

Name
3.Explore the various influences and sources of American literature.

Name
4.Apply effective analytic and interpretive strategies to American literary works using academic conventions of citation and style.

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 251

ENGL 2620 - American Literature II

General

Subject code	Course Number	Course Title
ENGL	2620	American Literature II

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Recognize the traditions of American literature and their connection to issues of culture, race, class, and gender.

Name
2.Demonstrate familiarity with a variety of major works by American authors.

Name
3.Explore the various influences and sources of American literature.

Name
4.Apply effective analytic and interpretive strategies to American literary works using academic conventions of citation and style.

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 252

ENGL 2630 - British Literature I

General

Subject code	Course Number	Course Title
ENGL	2630	British Literature I

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Read and discuss representative works of British writers from its origins in Old English to the 18th century to understand cultural and historical movements which influenced those writers and their works.

Name
2.Identify the characteristics of various British literary genres, such as the essay, novel, short story, poetry, and dramatic literature.

Name
3.Apply effective analytic and interpretive strategies to British literary works using academic conventions of citation and style.

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 271

ENGL 2640 - British Literature II

General

Subject code	Course Number	Course Title
ENGL	2640	British Literature II

Description
This course offers a study of British literature from the 18th century to the present. This survey covers specific literary works—short stories, novels, poems, and plays—as well as the social, cultural, and intellectual currents that influenced the literature.

General Education Course
Academic

Learning Outcomes

Name
1.Read and discuss representative works of British writers from the 18th century to the present to understand cultural and historical movements, which influenced those writers, and their works.

Name
2.Identify the characteristics of various British literary genres, such as the essay, novel, short story, poetry, and dramatic literature.

Name
3.Apply effective analytic and interpretive strategies to British literary works using academic conventions of citation and style.

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 272

ENGL 2650G - World Literature I

General

Subject code	Course Number	Course Title
ENGL	2650G	World Literature I

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Identify and comprehend key authors and literary works from ancient periods to the Enlightenment.

Name
2. Understand each text's historical and cultural context.

Name
3. Identify and analyze a variety of literary forms, including poetry, plays, and philosophical and religious texts.

Name
4. Compare works from different cultures and historical periods examining genre, style, and content or theme.

Name
5. Analyze how literary works reflect historical, national, cultural, and ethnic differences.

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 244G

ENGL 2675 - Transatlantic Literatures

General

Subject code	Course Number	Course Title
ENGL	2675	Transatlantic Literatures

Description
This course tracks the production, circulation, and reception of literary works in transatlantic contexts over at least 150 years. Students examine a variety of documents to map transformations in form, genre, and medium across historical and geographic contexts. Students consider how colonization, exile, displacement, and migration have track the production, circulation, and reception of literary works in transatlantic contexts over at least 150 years reinforced or contested national literary traditions.

General Education Course
Academic

Learning Outcomes

Name
1.Track the production, circulation, and reception of literary works in transatlantic contexts over at least 150 years.

Name
2.Identify and analyze a variety of documents to map transformations in form, genre, and medium across historical and geographic contexts.

Name
3.Explain how colonization, exile, displacement, and migration have reinforced or contested national literary traditions.

ENGL 2996 - Topics in English

General

Subject code	Course Number	Course Title
ENGL	2996	Topics in English

Description
Emphasis on a literary and/or writing subject chosen for the semester. Repeatable for a unlimited credit under different subtitles.
Repeatable: for a unlimited credit under different subtitles.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
ENGL 299

ENGR 100G - Introduction to Engineering (L)

General

Subject code	Course Number	Course Title
ENGR	100G	Introduction to Engineering (L)

Description
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.
Repeatable: up to 3 credits.

General Education Course
Area, VII, Academic

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): MATH1220G College Algebra or higher

ENGR 100GH - Introduction to Engineering Honors

General

Subject code	Course Number	Course Title
ENGR	100GH	Introduction to Engineering Honors

Description
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.
Repeatable: up to 3 credits.
Crosslist: ENGR 100.

General Education Course
Academic

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): MATH1220G College Algebraor higher

ENGR 110 - Introduction to Engineering Design

General

Subject code	Course Number	Course Title
ENGR	110	Introduction to Engineering Design

Description
Sketching and orthographic projection. Covers detail and assembly working drawings, dimensioning, tolerance specification, and design project. (2+3)

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

ENGR 111 - Mathematics for Engineering Applications

General

Subject code	Course Number	Course Title
ENGR	111	Mathematics for Engineering Applications

Description
An introduction to engineering mathematics and basic programming skills needed to perform elementary data manipulation and analysis.

General Education Course
Academic

Learning Outcomes

Name
1. Understanding and interpreting problem statements by designing algorithms, based on problem statements that render correct solutions and implementing those algorithms as computer programs.

Name
2. Write simple program modules to implement single numerical methods and algorithms.

Name
3. Calculate solutions to engineering problems using standard numerical methods.

Name
4. Test program output for accuracy using hand calculations and debugging techniques.

Name
5. Analyze the applicability and accuracy of numerical solutions to diverse engineering.

Name
6. Distill numerical results into a readable format that answers specific engineering analysis and design questions.

Prerequisites/Corequisites

Free Form Requirements

- **Prerequisite(s):** A grade of C or better in MATH1220G College Algebra or higher
- **Prerequisite(s)/Corequisite(s):** MATH1250G Trigonometry & Pre-Calculus or higher

ENGR 120 - DC Circuit Analysis (L)

General

Subject code	Course Number	Course Title
ENGR	120	DC Circuit Analysis (L)

Description
This course provides an introduction DC circuit analysis using Ohm's law, Kirchoff laws, Thevenin's and Norton's theorems.

General Education Course
Technical

Learning Outcomes

Name
1. Students learn the fundamental laws associated with circuit analysis and apply them to the design and analysis of circuits. This includes nodal analysis, mesh analysis, Ohm's law, power analysis, and transient and steady state frequency response.

Name
2. Students solve circuits problems, characterize their behavior, and study their frequency response.

Name
3. Students are required to design and analyze circuits.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1250G Trigonometry & Pre-Calculus or higher

ENGR 130 - Digital Logic

General

Subject code	Course Number	Course Title
ENGR	130	Digital Logic

Description
This course introduces logic design and the basic building blocks used in digital systems, as well as introducing applications of digital integrated circuits. Topics include Numbering systems (binary & hexadecimal), Boolean algebra and digital logic theory, simple logic circuits, combinational logic, and sequential logic, and applications such as ALU (Arithmetic Logic Units), multiplexers, encoders, counters, and registers. These basic logic units are the main parts of microprocessors. Includes hands-on labs and software designs.

General Education Course
Technical

Learning Outcomes

Name
1. Use Ohms & Kirchhoff Laws to solve basic voltage and current problems for resistors in series and parallel.

Name
2. Use Boolean algebra, truth tables, and Karnaugh maps to manipulate logical expressions.

Name
3. Design combinational logic circuits to meet specific requirements.

Name
4. Represent numeric values in different bases. Convert values between bases. Perform logical and arithmetic operations with binary numbers.

Name
5. Analyze Finite State Machines, including registers, counters, and shifters.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1220G College Algebra or higher

ENGR 140 - Introduction to Programming and Embedded Systems (L)

General

Subject code	Course Number	Course Title
ENGR	140	Introduction to Programming and Embedded Systems (L)

Description
An introduction to programming and to the field of embedded systems. Starting from the basic concepts of programming, this course uses microcontrollers, sensors, motors, and other peripheral devices to support the learning and application of the problem-solving process through embedded systems. This course focuses on reading, writing, debugging, testing, and documenting computer programs.

General Education Course
Technical

Learning Outcomes

Name
1. Students learn the fundamental laws associated with computer design.

Name
2. Students solve problems, characterize their behavior, and study their response.

Name
3. Students are required to design and analyze programs

Name
4. Students learn C and assembly languages

Name
5. Students learn RISC systems.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): ET182 Digital Logic or ENGR130 Digital Logic

ENGR 190 - Introduction to Engineering Mathematics

General

Subject code	Course Number	Course Title
ENGR	190	Introduction to Engineering Mathematics

Description
Engineering applications involving involved Math topics most heavily used in first and second-year engineering courses. Topics include engineering applications of algebra, trigonometry, vectors, complex numbers, sinusoids and signals, systems of equations and matrices, derivatives, integrals and differential equations.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in MATH1250G Trigonometry & Pre-Calculus or higher

ENGR 198 - Special Topics in Engineering

General

Subject code	Course Number	Course Title
ENGR	198	Special Topics in Engineering

Description

Directed individual study of topics in engineering. Written reports covering work required.
Repeatable: for a maximum of 6 credits.
Restricted to: engineering majors.
Graded: S/U.

General Education Course

Technical

Learning Outcomes

Name

1. Varies, please see course syllabus.

ENGR 217 - Manufacturing Processes

General

Subject code	Course Number	Course Title
ENGR	217	Manufacturing Processes

Description

An introduction to modern manufacturing processes and their application. Students will be introduced to manufacturing concepts such as traditional and non-traditional machining operations, tooling, material selection, thermal joining, geometric dimensioning & tolerancing, metrology, additive manufacturing, assembly and inspection, g-code, and automated manufacturing using CAM packages.

General Education Course

Technical

Learning Outcomes

Name

1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** ENGR217L Manufacturing Processes Lab
- **Prerequisite(s):** A grade of C or better in ENGR110 Introduction to Engineering Design and MATH1220G College Algebra or higher

ENGR 217L - Manufacturing Processes Lab

General

Subject code	Course Number	Course Title
ENGR	217L	Manufacturing Processes Lab

Description

A hands-on application of the concepts introduced in ENGR 217. This lab will expose the students to hands-on exercises and manufacturing methods used in industry.

General Education Course

Technical

Learning Outcomes

Name

1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Corequisite(s): ENGR217 Manufacturing Processes

ENGR 230 - AC Circuit Analysis

General

Subject code	Course Number	Course Title
ENGR	230	AC Circuit Analysis

Description

This course provides an introduction to Circuit analysis techniques, RLC transients, phasors, filter response, and an introduction to discrete electronic devices.

General Education Course

Technical

Learning Outcomes

Name

1. Students learn the fundamental laws associated with circuit analysis and apply them to the design and analysis of circuits. This includes nodal analysis, mesh analysis, Ohm's law, power analysis, and transient and steady state frequency response.

Name

2. Students solve circuits problems, characterize their behavior, and study their frequency response.

Name

3. Students are required to design and analyze circuits.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in ENGR120 DC Circuit Analysis (L) and MATH1440 Applications of Calculus II or MATH1521G Calculus and Analytic Geometry II

ENGR 233 - Engineering Mechanics I

General

Subject code	Course Number	Course Title
ENGR	233	Engineering Mechanics I

Description

Engineering mechanics using vector methods. Force systems, resultants, equilibrium, distributed forces, area moments, and friction.

General Education Course

Technical

Learning Outcomes

Name

1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

- **Prerequisite(s):** A grade of C or better in ENGR190 Introduction to Engineering Mathematics, MATH1440 Applications of Calculus II or MATH1521G Calculus and Analytic Geometry II
- **Prerequisite(s)/Corequisite(s):** PHYS1310G Calculus -Based Physics I or PHYS1230G Algebra-Based Physics I

ENGR 234 - Engineering Mechanics II

General

Subject code	Course Number	Course Title
ENGR	234	Engineering Mechanics II

Description

Kinetics of particles, kinematics and kinetics rigid bodies, systems of particles, energy and momentum principles, and kinetics of rigid bodies in three dimensions.

General Education Course

Technical

Learning Outcomes

Name

1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in ENGR233 Engineering Mechanics I

ENTR 1110 - Entrepreneurship

General

Subject code	Course Number	Course Title
ENTR	1110	Entrepreneurship

Description

Introduces students to the concept of entrepreneurship and to the process of business startups.

Learning Outcomes

Name

1.Identify the unique characteristics of an entrepreneur.

Name

2.Identify opportunities and conduct needs analysis.

Name

3.Develop value proposition/market fit for proposed products and services.

Name

4.Develop an appropriate business model.

Name

5.Identify availability of necessary resources.

Common Course Numbering Crosswalk

Past Course Numbers

BMGT 275

ENTR 2110 - Small Business Management

General

Subject code	Course Number	Course Title
ENTR	2110	Small Business Management

Description

This course is designed to acquaint the student with the opportunities encountered in the management and operations of a small business enterprise.

General Education Course

Academic

Learning Outcomes

Name
1. Contrast the legal forms of business ownership.

Name
2. Prepare a feasible business plan.

Name
3. Describe the impact of internal and external environmental factors on management decision-making.

Name
4. Explain typical government regulations, registrations, and reporting and compliance requirements impacting business.

Name
5. Project financial resources and statements to identify problems and timing of cash infusion.

Name
6. Develop a customer relationship management system.

ENVS 1110G - Environmental Science I (L)

General

Subject code	Course Number	Course Title
ENVS	1110G	Environmental Science I (L)

Description
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. (3+2P)

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Students will learn to critically analyze cause-and-effect relationships in the environment.

Name
2. Students will integrate and synthesize knowledge and draw appropriate conclusions based on the scientific method.

Common Course Numbering Crosswalk

Past Course Numbers
E S 110G

ENVS 2111 - Environmental Engineering and Science

General

Subject code	Course Number	Course Title
ENVS	2111	Environmental Engineering and Science

Description
Principles in environmental engineering and science: physical chemical systems and biological processes as applied to pollution control.
Crosslist: C E 256.

General Education Course
Academic

Learning Outcomes

Name
1.To understand the nature of water quality parameters in the context of Civil Engineering and Environmental Science (Water Treatment/ Wastewater Treatment/ Environmental Science).

Name
2.To learn to apply engineering and scientific solutions to water quality problems.

Name
3.To understand environmental regulations and their consequences on the design of pollution control systems.

Name
1. To understand the nature of water quality parameters in the context of Civil Engineering and Environmental Science (Water Treatment/ Wastewater Treatment/ Environmental Science).

Name
2. To learn to apply engineering and scientific solutions to water quality problems.

Name
3. To understand environmental regulations and their consequences on the design of pollution control systems.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** ENVS2111L Environmental Engineering and Science Laboratory
- **Prerequisite(s):** A grade of C or better in CHEM1215G General Chemistry I Lecture and Laboratory for STEM majors and MATH1511G Calculus and Analytic Geometry I or ENGR190 Introduction to Engineering Mathematics

Common Course Numbering Crosswalk

Past Course Numbers
E S 256

ENVS 2111L - Environmental Engineering and Science Laboratory

General

Subject code	Course Number	Course Title
ENVS	2111L	Environmental Engineering and Science Laboratory

Description
Laboratory experiments associated with the material presented in E S 2111. Same as C E 256L.
Crosslist: C E 256 L.

General Education Course
Academic

Learning Outcomes

Name
1.List typical analyses commonly performed to evaluate physical, chemical, and microbiological parameters used to describe water quality.

Name
2.Follow experimental procedures listed in the class laboratory manual, or other publications such as Standards Methods, to perform common water quality analyses.

Name
3.Evaluate, analyze, and discuss experimental results and present the conclusions in the form of a professional report.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): ENVS2111 Environmental Engineering and Science

Common Course Numbering Crosswalk

Past Course Numbers
E S 256 L

FDMA 1110 - Film History

General

Subject code	Course Number	Course Title
FDMA	1110	Film History

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Develop appreciation for the history of cinema.

Name
2.Develop knowledge of the key eras in the history of US cinema.

Name
3.Learn the characteristics of major movements in international cinema.

Name
4.Explain technological innovations that were necessary for, and integral to, the advancement of cinema.

Name
5.Recognize the various elements that go into telling a story in cinema.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 170

FDMA 1120 - Desktop Publishing I

General

Subject code	Course Number	Course Title
FDMA	1120	Desktop Publishing I

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate knowledge of fundamental features and navigation of desktop publishing software.

Name
2.Combine text and images for effective communication.

Name
3.Develop a balanced composition through use of color, contrast, and alignment.

Name
4.Place images within a composition and wrap around text.

Name
5.Produce documents with professional layout and typography skills.

Name
6.Create attractive and effective designs.

Name
7.Combine knowledge of typography, images, and design principles to produce professional print and web media.

Name
8.Create or add to a professional design portfolio for future use.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 140

FDMA 1210 - Digital Video Production I

General

Subject code	Course Number	Course Title
FDMA	1210	Digital Video Production I

Description
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. (2+4P).

General Education Course
Technical

Learning Outcomes

Name
1.Plan and produce a digital video project.

Name
2.Apply post-production workflow.

Name
3.Work in team and as individual to complete digital video projects.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 190

FDMA 1220 - Introduction to Digital Video Editing

General

Subject code
FDMA

Course Number
1220

Course Title
Introduction to Digital Video Editing

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1.Define concepts related to digital video editing.

Name
2.Use non-linear video editing software for editing a short film.

Name
3.Enhance storytelling through the use of continuity, timing, cutaways, intercutting, compositing, transitioning, jump cutting, montaging and animating.

Name
4.Use text, titles, transitions, video effects, sound effects, dialogue, and visual assets for digital video editing.

Common Course Numbering Crosswalk

Past Course Numbers
CMI 216, CMT 195

FDMA 1260 - Introduction to Digital Media

General

Subject code
FDMA

Course Number
1260

Course Title
Introduction to Digital Media

Description
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.
Repeatable: up to 12 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Describe and identify the principal components and terminology of digital media.

Name
2.Analyze and examine the use of digital media as a communication tool.

Name
3.Plan and implement a digital media project.

Name
4.Critique professional digital media products.

Name
5.Create projects using a variety of digital media tools.

Name
6.Demonstrate a working knowledge of copyright and usage rights.

Name
7.Present completed projects in a professional manner for critique.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 108, CMT 120

FDMA 1360 - Web Design I

General

Subject code
FDMA

Course Number
1360

Course Title
Web Design I

Description
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. (2+2P)
Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Acquire and utilize web design terminology.

Name
2.Create basic web pages using HTML.

Name
3.Demonstrate how to use industry-standard, web editing software.

Name
4.Design professional pages that are easy to navigate and quick to load.

Name
5.Develop a basic comprehension of CSS

Name
6.Prepare and export a variety of graphics to be used online.

Name
7.Compare and contrast designing for web media vs. print media.

Name
8.Analyze the importance of web presence in todays business/social climate.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ARTS1520 Digital Media I or FDMA1515 Introduction to Digital Image Editing - Photoshop

Common Course Numbering Crosswalk

Past Course Numbers
CMT 130

FDMA 1410 - Audio Production I

General

Subject code	Course Number	Course Title
FDMA	1410	Audio Production I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1.Apply tools and techniques in analog and digital audio production.

Name
2.Illustrate the fundamentals of acoustic science.

Name
3.Model professional behavior used in audio recording.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1210 Digital Video Production I and FDMA2410 Audio Production II

Common Course Numbering Crosswalk

Past Course Numbers
CMT 247

FDMA 1415 - Principles of Sound

General

Subject code	Course Number	Course Title
FDMA	1415	Principles of Sound

Description
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 an 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.

General Education Course
Technical

Learning Outcomes

Name
1.Record and edit wild sound effects and synced dialogue.

Name
2.Discover, upload, and edit on-line music, ambience and sound effect loops.

Name
3.Implement audio design theories.

Name
4.Create an aesthetic soundtrack which incorporates multiple elements and dimensions.

Name
5.Design, edit, process, mix and master a synced multi-track soundtrack.

Name
6.Demonstrate capable use of digital audio production and post-production workflow.

Name
7.Produce short audio projects which meet media industry technical standards.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): FDMA1220 Introduction to Digital Video Editing

Common Course Numbering Crosswalk

Past Course Numbers
CMT 206

FDMA 1510 - Introduction to 3D Animation

General

Subject code	Course Number	Course Title
FDMA	1510	Introduction to 3D Animation

Description
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 others animation, as well as plan and produce original animation for review by classmates and as part of a CGI demo reel.

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate a fundamental understanding of 3D animation history and principles.

Name
2.Analyze animation work of other artists.

Name
3.Appropriately utilize the various media technologies for digital 3D animation.

Name
5.Demonstrate and apply basic techniques of digital 3D animation.

Name
6.Demonstrate and apply basic processes of creating CGI for a narrative.

Name
7.Apply some basic strategies for developing and creating a story visually, and create original animations.

Name
8.Present original animations to instructor and classmates for critique.

Name
9.Create a CGI demo reel of work completed during the course.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in ENGL2381 Script Development and Storyboarding or FDMA2382 Principles of Story Across the Media

Common Course Numbering Crosswalk

Past Course Numbers

CMI 260, CMT 135

FDMA 1515 - Introduction to Digital Image Editing - Photoshop

General

Subject code	Course Number	Course Title
FDMA	1515	Introduction to Digital Image Editing - Photoshop

Description

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. (2+2P).
Repeatable: for a maximum of 6 credits.

General Education Course

Technical

Learning Outcomes

Name
1.Make and refine selections.

Name
2.Adjust color and tone in an image.

Name
3.Eliminate unwanted objects in an image.

Name
4.Apply layers to organize and create effects.

Name
5.Create brushes, styles and vector shapes.

Name
6.Prepare image for print and screen output.

Name
7.Apply masking and layers to non-destructively edit an image.

Name
8.Effectively utilize blending modes and layer styles.

Name
9.Apply adjustment layers.

Name
10.Apply design principles including typography.

Common Course Numbering Crosswalk

Past Course Numbers

CMT 145

FDMA 1531 - Evolution of Electronic Games

General

Subject code	Course Number	Course Title
FDMA	1531	Evolution of Electronic Games

Description

Focus on the evolution of video games and how they have shaped mainstream entertainment. (2+2P)
Repeatable: up to 6 credits.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers

CMT 151

FDMA 1535 - Introduction to Illustrator

General

Subject code	Course Number	Course Title
FDMA	1535	Introduction to Illustrator

Description
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. (2+2P).
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Apply a variety of shape blending options.

Name
2.Create and apply new gradients.

Name
3.Apply Gradient Meshes and Envelopes.

Name
4.Create symbols, brushes and vector shapes.

Name
5.Apply Pathfinder and other effects.

Name
6.Effectively utilize the pen tool to draw and edit shapes.

Name
7.Effectively utilize Vector tools.

Name
8.Prepare image for print and screen output.

Name
9.Apply clipping masks.

Name
10.Prepare image for use in another program.

Name
11.Apply design principles including typography.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 142

FDMA 1536 - Advanced Computer Illustration

General

Subject code	Course Number	Course Title
FDMA	1536	Advanced Computer Illustration

Description
Advanced techniques in 2D vector drawing and fundamentals of 3D illustration for use in print, web, and multimedia applications. (2+2P)
Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate proficiency in using advanced features of Illustrator.

Name
2.Identify and create different illustrator/art styles using advanced techniques for shading, perspective, light, reflection.

Name
3.Produce high quality digital imagery incorporating basic principles of composition.

Name
4.Create a series of illustrations demonstrating a design competency in layout foundation and illustrative moods or client/project based solutions.

Name
5.Create high quality portfolio pieces that demonstrate an advanced knowledge of design, composition and Illustrator techniques.

Name
6.The students will produce finished printed portfolio pieces demonstrating a comprehensive knowledge of typographical, design, illustrative and layout skills.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1535 Introduction to Illustrator

Common Course Numbering Crosswalk

Past Course Numbers
CMT 242

FDMA 1545 - Introduction to Photography & Digital Imaging

General

Subject code	Course Number	Course Title
FDMA	1545	Introduction to Photography & Digital Imaging

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1.Exhibit proper usage of the principles and techniques of photography using digital equipment.

Name
2.Utilize features and techniques of a digital camera with proper use of lenses, settings, and flashes.

Name
3.Create photo collections that represent proper use of technical skills.

Name
4.Demonstrate proficiency in planning, lighting, capturing, and distributing photographic projects which show ability to create photographs artistically and to tell a story or express an idea.

Name
5.Utilize appropriate software to create original projects.

Name
6.Demonstrate knowledge in post-production of photos as to sizing, sampling, resolution, and exporting.

Name
7.Produce original projects which respect intellectual property of others.

Name
8.Create a digital portfolio of work completed during the course.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 115

FDMA 1555 - Introduction to the Creative Media Industry

General

Subject code	Course Number	Course Title
FDMA	1555	Introduction to the Creative Media Industry

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1.The basic philosophies and methods that guide people working in the Creative Media industry.

Name
2.Knowledge of a wide variety of different jobs, qualifications and paradigms used in the industry.

Name
3.Marketing, Production, Budgets, History, New Media, Inspiration and other aspects of the industry.

Name
4.An accurate view of the Creative Media field.

Common Course Numbering Crosswalk

Past Course Numbers
CMI 100

FDMA 1630 - Principles of Design

General

Subject code	Course Number	Course Title
FDMA	1630	Principles of Design

Description
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. (2+2P).

General Education Course
Technical

Learning Outcomes

Name
1.Practice Creativity.

Name
2.Plan a Design project.

Name
3.Demonstrate the effective use of Emphasis & Contrast.

Name
4.Demonstrate the effective use of Balance and Alignment.

Name
5.Demonstrate the effective use of Harmony and Repetition.

Name
6.Demonstrate the effective use of Flow, Movement, and Rhythm.

Name
7.Demonstrate the effective use of Simplicity and Economy.

Name
8.Effectively apply basic color theory.

Name
9.Demonstrate the effective use of Typography principles.

Name
10.Apply design principles to Screen & Print Projects.

Name
11.Develop client relations.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1535 Introduction to Illustrator

Common Course Numbering Crosswalk

Past Course Numbers
CMT 180

FDMA 1710 - 2D Animation

General

Subject code	Course Number	Course Title
FDMA	1710	2D Animation

Description
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. (2+2P).

General Education Course
Technical

Learning Outcomes

Name
1. Be able to correctly storyboard an animation scene.

Name
2. Define and demonstrate basic animation terminology and principles.

Name
3. Produce a complete hand drawn animation using industry standard software and processes.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1535 Introduction to Illustrator

Common Course Numbering Crosswalk

Past Course Numbers
CMT 150

FDMA 1715 - 2-D Compositing & FX

General

Subject code	Course Number	Course Title
FDMA	1715	2-D Compositing & FX

Description
This course will familiarize students with the process of compositing and creating special effects for animation using industry standard software. Students will learn how to assemble an animated scene and use advanced 3D lighting, spacing, and digital effects to achieve a dynamic, professionally rendered look.

General Education Course
Technical

Learning Outcomes

Name
1.The goal of this class is for students to learn how to use advanced compositing and effects tools in order to achieve a more dynamic and professional visual look for their animations or motion graphics.

Name
2.By the end of the class, you should be proficient animation compositors that can assemble and synthesize a basic animation into a rendered, visually sophisticated piece.

Name
3.Students who pass this class will have a basic to intermediate knowledge of Adobe After Effects.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA2710 Beginning 2-D Animation

Common Course Numbering Crosswalk

Past Course Numbers
CMI 245

FDMA 1720 - 3D Character Design

General

Subject code	Course Number	Course Title
FDMA	1720	3D Character Design

Description
Focus on designing a character and then taking that design and building it in 3D using intermediate modeling techniques. (2+4P).
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Translate concept art into a low and high resolution 3D model using proper modeling techniques.

Name
2. Use Polygon modeling techniques to create a 3D character 3. Layout UVs and utilize Adobe Photoshop to texture a model.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1510 Introduction to 3D Animation or FDMA2530 Introduction to 3D Modeling

Common Course Numbering Crosswalk

Past Course Numbers
CMT 175

FDMA 1725 - 3D Shading and Lighting Techniques

General

Subject code	Course Number	Course Title
FDMA	1725	3D Shading and Lighting Techniques

Description
Study of various global, scene and character lighting techniques, shading and shadowing, and creating atmospheres and reflections that bring computer generated 3D scenes to life. Examines environmental and studio lighting to bring real life experience into the digital production process.

General Education Course
Technical

Learning Outcomes

Name
1.Students will demonstrate visual communication skills through critiques, written explanations, and storyboarding.

Name
2.Students will be able to illustrate ideas.

Name
3.Students will be able to storyboard animation and video projects.

Name
4.Students will be able to create complex lighting situations in a 3d environment.

Name
5.Students will be able to expand expertise in 3d studio as well as Maya.

Name
6.Students will be able to produce original projects that respect intellectual property of others.

FDMA 1996 - Topics in Film and Digital Media Arts

General

Subject code	Course Number	Course Title
FDMA	1996	Topics in Film and Digital Media Arts

Description
Specific titles to be announced in the Schedule of Classes. Repeatable: for a maximum of 18 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 155

FDMA 2111 - Environmental Scene Design

General

Subject code	Course Number	Course Title
FDMA	2111	Environmental Scene Design

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 220

FDMA 2112 - Environmental Modeling, Shading and Lighting

General

Subject code	Course Number	Course Title
FDMA	2112	Environmental Modeling, Shading and Lighting

Description
Modeling design techniques to create natural and architectural environments to be used for animated films and gaming. Study of various lighting techniques, shading and shadowing.

General Education Course
Technical

Learning Outcomes

Name
1.Understand how to model more efficiently.

Name
2.Understand how UV texturing works.

Name
3.Create seamless textures.

Name
4.Model, texture, shade, and light their own object.

FDMA 2120 - Film Crew I/Introduction to Film and Media Workflow

General

Subject code	Course Number	Course Title
FDMA	2120	Film Crew I/Introduction to Film and Media Workflow

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1.Explain film production processes; Interpret call sheets and deal memos, model basic on-set protocols and professional behavior.

Name
2.Assist producers and directors in completing a professional film project.

Name
3.Work effectively in production crew positions in a group environment.

Name
4.Recognize and articulate specific film production structure, from original concept to final release.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 126

FDMA 2125 - Film Crew II

General

Subject code	Course Number	Course Title
FDMA	2125	Film Crew II

Description
The second of three courses (FDMA 2120, 2125 and 2130) 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.

General Education Course
Technical

Learning Outcomes

Name
1.Understand film production processes used to produce a film.

Name
2.Manage craft area job functions.

Name
3.Model on-set protocols and professional behaviors.

Name
4.Assist producers and directors in completing a professional film projects.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA2120 Film Crew I/Introduction to Film and Media Workflow

Common Course Numbering Crosswalk

Past Course Numbers
CMT 156

FDMA 2144 - Pre-production Management

General

Subject code	Course Number	Course Title
FDMA	2144	Pre-production Management

Description
Pre-production planning paperwork breakdowns, budgeting, and scheduling; taking a project from start to finish from a producer's standpoint.

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate proficiency in various areas of pre-production.

Name
2.Create a script breakdown, budget, production and post-production schedule, and management plan and timeline that are technically sound.

Name
3.Use features of pre-production and project management software, to foresee and plan the pre- production, production, and post-production stages of a project.

Name
4.Demonstrate understanding of the processes of supporting and managing a project, through the pre- production, production, and post-production stages to completion.

Name
5.Work collaboratively and communicate effectively with the pre-production and management teams to produce the desired finished project.

FDMA 2150 - Desktop Publishing II

General

Subject code	Course Number	Course Title
FDMA	2150	Desktop Publishing II

Description
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. (2+2P).
Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Build upon knowledge of design and design terminology.

Name
2.Exhibit intermediate to advanced design principles using type, layout, and color.

Name
3.Demonstrate skill in intermediate to advanced concepts and features of page layout software.

Name
4.Exhibit knowledge of styles, tables, images and clipping paths and interactive documents as well as printing preparations and procedures.

Name
5.Create layouts for print, web, and other media that demonstrate an intermediate to advanced knowledge in typography and layout design.

Name
6.Format and produce newsletters and instructional flyers, as well as larger, complex projects such as packaging mechanicals, multiple master page documents, and books.

Name
7.Assess works of graphic design for quality and effectiveness.

Name
8.Utilize produced material to create or add to a design portfolio for future use.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1120 Desktop Publishing I

Common Course Numbering Crosswalk

Past Course Numbers
CMT 240

FDMA 2210 - Digital Video Production II

General

Subject code	Course Number	Course Title
FDMA	2210	Digital Video Production II

Description
Advanced techniques of the tools and application of professional film making. (2+2P)
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate the ability to produce and manage a video project; Produce a script, storyboard, and production schedule for a video project designed for a specific audience.

Name
2.Demonstrate proficiency in producing quality digital video footage and audio tracks; Shoot to the script and storyboard using a variety of camera and lighting techniques; Produce a finished complex sound track including narration, music, and sound effect.

Name
3.Demonstrate ability to produce and edit a professional quality video project; Integrate all production aspects of the project including video, audio, graphics, titles, transitions, and effects. Guide the project through the final production stages.

Name
4.Develop competency in digital video distribution using various formats and techniques; Distribute project in various formats which could include DVD and web posting.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1210 Digital Video Production I

Common Course Numbering Crosswalk

Past Course Numbers
CMT 210

FDMA 2241 - Advanced Camera Techniques

General

Subject code	Course Number	Course Title
FDMA	2241	Advanced Camera Techniques

Description
Professional camera techniques and training for electronic news gathering and studio filmmaking. Utilizes high-end handheld shooting techniques, cranes, dollies, and Steadicam training. (2+2P)
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Students knowledge of high-end video camera operation and features.

Name
2.Students must know all the working features of the video production equipment being used during the course in order to achieve the desired footage as required by the instructor.

Name
3.Demonstrate proficiency in producing quality digital video footage.

Name
4.Individuals must acquire the knowledge of different shooting styles in different productions situations and use those acquired skills to produce the appropriate video footage.

Name
5.Using the proper lighting in different on location shooting styles.

Name
6.Skill of each individual utilizing the usage of high-end camera equipment such as dollies, cranes and Steadicam.

Name
7.Each individual must work as a team player to create professional style video footage.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1210 Digital Video Production I

Common Course Numbering Crosswalk

Past Course Numbers
CMT 258

FDMA 2285 - Digital Video Production and Editing II

General

Subject code	Course Number	Course Title
FDMA	2285	Digital Video Production and Editing II

Description
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. (2+2P).
Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Intermediate to advanced video editing.

Name
2.Create short films and training videos.

Name
3.Create TV quality commercials.

Name
4.Direct a news broadcast.

Name
5.Work as a mentor to students on digital media equipment.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1220 Introduction to Digital Video Editing

Common Course Numbering Crosswalk

Past Course Numbers
CMT 215

FDMA 2287 - Digital Design Studio

General

Subject code	Course Number	Course Title
FDMA	2287	Digital Design Studio

Description
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.
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate competency in the use of InDesign software.

Name
2.Create appropriate visual solutions based on target marketing information.

Name
3.Demonstrate competency in the design and production of advertising and promotional materials.

Name
4.Present ideas and concepts effectively and competently.

Name
5.Visually demonstrate design solutions to be used in a portfolio.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1630 Principles of Design or ARTS1712 Digital Graphics

Common Course Numbering Crosswalk

Past Course Numbers
CMT 223

FDMA 2310 - History of Cinema I

General

Subject code	Course Number	Course Title
FDMA	2310	History of Cinema I

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Gain a greater appreciation for the history of cinema.

Name
2.Develop knowledge of the key eras in the history of U.S. cinema.

Name
3.Learn the characteristics of major movements in international cinema.

Name
4.Understand the various elements that go into telling a story in cinema: screenplay, narrative devices, director, producer, talent, production design, cinematography, editing, sound design.

Name
5.Learn how major genres in U.S. cinema have evolved in the past 100+ years.

Name
6.Gain a basic understanding of the operations and organization of the Hollywood film industry, from the studio system until today.

Name
7.Gain an awareness of the shifts in the film industry that present new opportunities for independent filmmakers.

Name
8.Understand the importance of learning about the history of cinema to the process of becoming a filmmaker.

Name
9.Strengthen public speaking skills.

Common Course Numbering Crosswalk

Past Course Numbers
CMI 228

FDMA 2311 - History of Animation

General

Subject code	Course Number	Course Title
FDMA	2311	History of Animation

Description
Explores the history of Animation as an art form and industry through readings, screenings, lecture and periodic guest speakers.

General Education Course
Academic

Learning Outcomes

Name
1.To expand your knowledge of the history of animation and its evolution to the modern day.

Name
2.To expand your ability to view animation critically and to understand its early connections to cartooning as well as its ongoing cultural presence and relevance.

Name
3.To expand your comfort with accessing information and completing assignments both online and independently. Canvas will be utilized for many of our readings and for some response assignments.

Common Course Numbering Crosswalk

Past Course Numbers
CMI 231, CMT 253

FDMA 2312 - History of Media Design

General

Subject code	Course Number	Course Title
FDMA	2312	History of Media Design

Description
An introduction to the principles of design history and theory within a chronological framework of historical and emerging media.

General Education Course
Academic

Learning Outcomes

Name
1.Introduction to visual communication; Defines design media; Discuss universal design principles and strengthen student basic design skills.

Name
2.Historical technological development and design; Prehistoric communication; Beginnings of alphabet and written language; Movable type and the printing press; Industrial revolution; Digital Age; Designers and Trends.

Name
3.Personalities and their influence and contributions.

Name
4.Identify design styles and discuss the relevance of how design influences; Idea generation; Trend sources; Influences or appropriation; Propaganda and advertising.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 254

FDMA 2325 - Advanced Photoshop

General

Subject code	Course Number	Course Title
FDMA	2325	Advanced Photoshop

Description
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. (2+2P)
Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Create effects using advanced blending techniques.

Name
2.Effectively utilize advanced masking techniques.

Name
3.Refine Selections with advanced techniques.

Name
4.Assess & Adjust color in an image.

Name
6.Utilize advanced photo enhancement techniques.

Name
7.Alter images using Photoshop painting techniques.

Name
8.Create brush presets.

Name
9.Create vector elements with paths.

Name
9.Add & manipulate type on a path.

Name
10.Create advanced special effects.

Name
11.Apply vanishing point & warping.

Name
12.Create a video clip.

Name
13.Apply color adjustments to video.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1515 Introduction to Digital Image Editing - Photoshop

Common Course Numbering Crosswalk

Past Course Numbers
CMT 245

FDMA 2326 - Digital Photography and Imaging II

General

Subject code	Course Number	Course Title
FDMA	2326	Digital Photography and Imaging II

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1.Apply proper exposure techniques.

Name
2.Practice effective composition techniques.

Name
3.Demonstrate knowledge of working with Camera RAW files.

Name
4.Demonstrate proper image adjustment and correction techniques.

Name
5.Successfully apply the basics of HDR digital photography.

Name
6.Apply techniques for modifying light.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1545 Introduction to Photography & Digital Imaging

Common Course Numbering Crosswalk

Past Course Numbers
CMT 216

FDMA 2360 - Web Design II

General

Subject code	Course Number	Course Title
FDMA	2360	Web Design II

Description
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. (2+2P).
Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Plan and produce web design mockups.

Name
2.Demonstrate a proficiency in HTML/ CSS coding.

Name
3.Utilize basic web scripts.

Name
4.Integrate animation into web design

Name
5.Create fully functional websites using one or more web editors.

Name
6.Make a website live.

Name
7.Evaluate web designs for aesthetics and functionality.

Name
8.Demonstrate the utilization of responsive design.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1360 Web Design I

Common Course Numbering Crosswalk

Past Course Numbers
CMT 230

FDMA 2365 - Web Design for Small Business

General

Subject code	Course Number	Course Title
FDMA	2365	Web Design for Small Business

Description
Create and manage well designed online business, and organized web sites using a Content Management System.
Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Using CSS, PHP, HTML, Photoshop, and WordPress.

Name
2.Design a complete and fully functional online web business.

Name
3.Understand and develop a plan to better manage a web store/business.

Name
4.Review basic design guidelines in preparing a variety of web applications for business.

Name
5.Develop technical skills in using various web-based solutions.

Name
6.Reinforce your knowledge of web design software.

Name
7.Introduce alternate sources of data, communication and financial solutions.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1360 Web Design I

Common Course Numbering Crosswalk

Past Course Numbers
CMT 235

FDMA 2370 - Advanced Web Techniques

General

Subject code	Course Number	Course Title
FDMA	2370	Advanced Web Techniques

Description
Creating and managing complex web sites using advanced techniques and tools.
Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Create webpages using Hypertext Markup Language (HTML) elements and tags.

Name
2.Format webpages using Cascading Style Sheets (CSS).

Name
3.Validate webpage code.

Name
4.Apply industry-standard webpage design and organization principles.

Name
5.Publish a website.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 275

FDMA 2375 - Typography

General

Subject code	Course Number	Course Title
FDMA	2375	Typography

Description
This course introduces students to the history of typography and its emotive, symbolic and communicative aspects. Students learn how to use type in a creative and aesthetic way and develop an understanding of page composition that incorporates concept and design.
Repeatable: May be taken twice.

General Education Course
Technical

Learning Outcomes

Name
1.Understand the history of type.

Name
2.Use type as a communication tool as well as a design element.

Name
3.Understand the relationship between content and format.

Name
4.Make informative decisions in typeface selection.

FDMA 2381 - Storyboarding

General

Subject code	Course Number	Course Title
FDMA	2381	Storyboarding

Description
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 a critical “architectural component” of the filmmaking process, used as a blueprint (or guide) to communicate the complex elements of a film story.
Restricted to: Digital Graphics majors.
Crosslist: ENGL 2381.

General Education Course
Technical

Learning Outcomes

Name
1.Learn to conceive and draw original images.

Name
2.Learn to use images to tell a story.

Name
3.Design, develop, and order images (shots) into storyboarded scenes.

Name
4.Understand how storyboarded sequences are a tool in the process of filmmaking.

Name
5.Understand how the storyboard image is translated from the written page.

Name
6.Build scenes from the scripted sequences into a storyboard.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ENGL2381 Script Development and Storyboarding

Common Course Numbering Crosswalk

Past Course Numbers
CMI 232

FDMA 2382 - Principles of Story Across the Media

General

Subject code	Course Number	Course Title
FDMA	2382	Principles of Story Across the Media

Description
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.
Crosslist: ENGL 2382.

General Education Course
Academic

Learning Outcomes

Name
1.Identify the elements of storytelling in scripted text or improvised performance.

Name
2.Understand how these elements work together across different media.

Name
3.Apply these elements of storytelling in original work.

Name
4.Appreciate and master these elements for independent or collaborative work.

Common Course Numbering Crosswalk

Past Course Numbers
CMI 235

FDMA 2383 - Writing and Storyboarding

General

Subject code	Course Number	Course Title
FDMA	2383	Writing and Storyboarding

Description
Learning good writing principles to create storyboards and scripts that communicate the overall picture of the project, timing, scene complexity, emotion, and resource requirements.

General Education Course
Academic

Learning Outcomes

Name
1.How to create a concept for a CG project.

Name
2.How to visualize a project, including scripting, storyboards and concept drawings.

Name
3.How to manage a project, including scheduling and budgeting.

FDMA 2410 - Audio Production II

General

Subject code	Course Number	Course Title
FDMA	2410	Audio Production II

Description
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. (2+2P)

General Education Course
Academic

Learning Outcomes

Name
1.Apply analog and digital audio hardware and software in audio recording.

Name
2.Apply common professional set-up practices of audio production facilities.

Name
3.Produce audio projects, sync sound recordings, and audio dialogue replacement (ADR) demonstrating technical expertise.

Name
4.Perform an audio mix and master for a final professional product.

Name
5.Analyze and compare existing audio productions for quality.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 236

FDMA 2510 - Introduction to Sound Design for Film

General

Subject code	Course Number	Course Title
FDMA	2510	Introduction to Sound Design for Film

Description
This course 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.
Crosslist: FDMA 1415.

General Education Course
Academic

Learning Outcomes

Name
1.Compare the properties and propagation of sound and importance of sound to the storytelling aspect of filmmaking.

Name
2.Learn the process of designing a soundtrack for film and recording live audio dialogue for use in post-production editing.

Name
3.Learn methods of capturing sound including live audio recording, dialogue recording, Foley, orchestration and audio dialogue replacement.

Name
4.Design a soundtrack for motion media project.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): \"FDMA2382\" - Missing course

Common Course Numbering Crosswalk

Past Course Numbers
CMI 200

FDMA 2520 - Introduction to Cinematography

General

Subject code	Course Number	Course Title
FDMA	2520	Introduction to Cinematography

Description
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 introduce 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.
Repeatable: up to 6 credits. only.

General Education Course
Academic

Learning Outcomes

Name
1.Define and explain the fundamental concepts of cinematography, such as exposure, lighting solutions, and color temperature.

Name
2.Understand how cinematography brings the Directors vision to reality.

Name
3.Demonstrate proficiency in plotting and executing interior and exterior lighting solutions.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): FDMA1210 Digital Video Production I or FDMA2382 Principles of Story Across the Media

Common Course Numbering Crosswalk

Past Course Numbers
CMI 205, CMT 205

FDMA 2530 - Introduction to 3D Modeling

General

Subject code	Course Number	Course Title
FDMA	2530	Introduction to 3D Modeling

Description
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.
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Identify the role of a 3D modeler in a production pipeline within various fields of digital animation.

Name
2.Apply techniques in modeling mechanical and organic objects.

Name
3.Utilize tools available in professional 3D modeling software.

Name
4.Create simple animations and renders.

Name
5.Present original animations to instructor and classmates for critique.

Name
6.Create a demo reel of work completed during the course.

Common Course Numbering Crosswalk

Past Course Numbers
CMI 280, CMT 160

FDMA 2535 - Digital Illustration

General

Subject code	Course Number	Course Title
FDMA	2535	Digital Illustration

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1.Be familiar with the CMI computer system, facilities, equipment and policies.

Name
2.Appropriately utilize the various media technologies available at CMI for digital illustration.

Name
3.Understand the different roles and areas of digital illustration.

Name
4.Understand and apply some basic techniques of digital illustration.

Name
5.Understand and apply some basic processes of creating pleasing images based on knowledge of traditional art principles.

Name
6.Begin to apply some basic strategies for developing and creating aesthetically pleasing images.

Common Course Numbering Crosswalk

Past Course Numbers
CMI 240

FDMA 2550 - Print Media III (Desktop Publishing III)

General

Subject code	Course Number	Course Title
FDMA	2550	Print Media III (Desktop Publishing III)

Description
Refinement of skills needed to prepare a variety of documents for print and the service bureau.

General Education Course
Technical

Learning Outcomes

Name
1.To become more proficient with InDesign in preparing a variety of documents including CD covers, flyer and long documents.

Name
2.To refine design process in laying out various documents.

Name
3.To increase knowledge of paper creation and relevant paper choices for specific projects.

Name
4.To increase knowledge of color and file formats.

Name
5.To prepare files for service bureaus, presentation and critique.

Name
6.To create portfolio-ready pieces.

FDMA 2570 - Creative Media Studio

General

Subject code	Course Number	Course Title
FDMA	2570	Creative Media Studio

Description
A studio environment where students specialize in creating film-festival quality and portfolio-ready projects under the supervision of faculty. (2+2P)
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Students will work together to create portfolio-quality work in a studio environment. Through classroom discussion and reporting the students will collaborate to produce a professional quality vertical slice game concept within a defined timeline and financial budget.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1210 Digital Video Production I and FDMA1220 Introduction to Digital Video Editing or FDMA2530 Introduction to 3D Modeling

Common Course Numbering Crosswalk

Past Course Numbers
CMT 292

FDMA 2710 - Beginning 2-D Animation

General

Subject code	Course Number	Course Title
FDMA	2710	Beginning 2-D Animation

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1.Use major software tools with ease.

Name
2.Manage timelines through key frames.

Name
3.Build storyboards.

Name
4.Demonstrate knowledge of 2-D and animation terminology.

Name
5.Produce actions, set environments and constraints for 2-D animation.

Name
6.Render full animation.

Common Course Numbering Crosswalk

Past Course Numbers
CMI 250

FDMA 2715 - Special Effects

General

Subject code	Course Number	Course Title
FDMA	2715	Special Effects

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA2530 Introduction to 3D Modeling

Common Course Numbering Crosswalk

Past Course Numbers
CMT 260

FDMA 2720 - 3D Animation

General

Subject code	Course Number	Course Title
FDMA	2720	3D Animation

Description
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, dynamics and constraints.

General Education Course
Technical

Learning Outcomes

Name
1.Clearly describe the role of an animator in cinema, gaming and related fields.

Name
2.Recognize leading animators and their methods.

Name
3.Demonstrate knowledge of advances in contemporary animation.

Name
4.Utilize current industry standard animation tools.

Name
5.Apply fundamental animation processes and techniques.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1510 Introduction to 3D Animation and FDMA2710 Beginning 2-D Animation

Common Course Numbering Crosswalk

Past Course Numbers
CMI 290

FDMA 2725 - Rigging for 3D Animation

General

Subject code	Course Number	Course Title
FDMA	2725	Rigging for 3D Animation

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1.Understand what Rigging is and the role it plays in the world of cinema and video games.

Name
2.Be familiar with industry professionals and their techniques and approaches to rigging.

Name
3.Understand and be able to apply the fundamentals of rigging to industry standard applications.

Name
4.Demonstrate ability to rig basic to intermediate machines, bipeds and quadrupeds.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1510 Introduction to 3D Animation

Common Course Numbering Crosswalk

Past Course Numbers
CMI 270

FDMA 2730 - Advanced Character Animation

General

Subject code	Course Number	Course Title
FDMA	2730	Advanced Character Animation

Description
Focus on complex rigging techniques as well as utilizing advanced animation functions to blend multiple animations into complex animations. (2+2P) Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Create skeletal riggings for use with a 3D model.

Name
2.Attach riggings to a 3D model using Smooth and rigid binding and refine the bindings so that they are properly weighted.

Name
3.Animate a 3D model using skeletal and vertex animation techniques.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA2530 Introduction to 3D Modeling

Common Course Numbering Crosswalk

Past Course Numbers
CMT 227

FDMA 2735 - Advanced 3D Animation Workshop A

General

Subject code	Course Number	Course Title
FDMA	2735	Advanced 3D Animation Workshop A

Description
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. (2+4P)
Repeatable: for a maximum of 9 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Define the duties and skills sets required for a career in 3D Modeling.

Name
2.Understand the Maya interface, the uses for all of the major modes and menus of the interface and be able to describe how to access the tools, actions and the options of those tools and actions.

Name
3.Complete and compile a multi shot animated short.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): FDMA2740 Advanced 3D Animation Workshop B

Common Course Numbering Crosswalk

Past Course Numbers
CMT 290

FDMA 2740 - Advanced 3D Animation Workshop B

General

Subject code	Course Number	Course Title
FDMA	2740	Advanced 3D Animation Workshop B

Description
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. (2+4P)
Repeatable: for a maximum of 9 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Define the duties and skills sets required for a career in 3D Modeling.

Name
2.Understand the Maya interface, the uses for all of the major modes and menus of the interface and be able to describe how to access the tools, actions and the options of those tools and actions.

Name
3.Complete and compile a multi shot animated short.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): FDMA2735 Advanced 3D Animation Workshop A

Common Course Numbering Crosswalk

Past Course Numbers
CMT 291

FDMA 2745 - Light, Shade, Render

General

Subject code	Course Number	Course Title
FDMA	2745	Light, Shade, Render

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1.Understand the role of lighting and surfacing to tell a story.

Name
2.Be familiar with leading lighting artist and their approaches.

Name
3.Utilize the software implemented in the entertainment industry.

Name
4.Understand and apply fundamental lighting and rendering techniques.

Name
5.Demonstrate ability to create successfully rendered scenes from concept through production.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1510 Introduction to 3D Animation or FDMA2530 Introduction to 3D Modeling

Common Course Numbering Crosswalk

Past Course Numbers
CMI 233

FDMA 2750 - Digital Sculpting

General

Subject code	Course Number	Course Title
FDMA	2750	Digital Sculpting

Description
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. Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate communication skills through written critiques and explanations.

Name
2.Students will demonstrate visual communication skills through critiques, written explanations, and storyboarding.

Name
3.Demonstrate a working knowledge of Brushs interface.

Name
4.Demonstrate a working knowledge of Zpheres and how they are best used to create sculpts.

Name
5.Demonstrate a working knowledge of painting a mesh using Spotlight.

Name
6.Demonstrate a working knowledge of retopologizing and exporting the mesh.

Name
7.Demonstrate a working knowledge of integrating the full Zbrush pipeline into Unity and Unreal.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA2530 Introduction to 3D Modeling

Common Course Numbering Crosswalk

Past Course Numbers
CMT 229

FDMA 2755 - Drawing for Animation

General

Subject code	Course Number	Course Title
FDMA	2755	Drawing for Animation

Description
Introductory study of the human body 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.

General Education Course
Technical

Learning Outcomes

Name
1. Students will have an opportunity to gain hands on experience using industry standard state of the art animation software

Name
2.Understand what the basics of drawing the human form.

Name
3.Have a general understanding of human anatomy as needed for the artist.

Name
4.Be able to design the human form from imagination.

Common Course Numbering Crosswalk

Past Course Numbers
CMI 220

FDMA 2760 - Personal Character Development

General

Subject code	Course Number	Course Title
FDMA	2760	Personal Character Development

Description
Focus on the development of personal character(s), from sketch to render. Develop complete biographies of character, then build, skin and animate with as many personal attributes as possible.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FDMA 2765 - Anatomical Character Design

General

Subject code	Course Number	Course Title
FDMA	2765	Anatomical Character Design

Description
Focus on building anatomy-based 3D characters. Advanced study in NURBS, subdivisions, and polygon modeling techniques used to create fully functional and realist models.
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Understand the flow of character anatomy.

Name
2.Model polygon, NURBs, and subdivision objects.

Name
3.Gain a better understanding for geometry flow on characters.

Name
4.Gain general knowledge of anatomical character techniques.

Name
5.UV texture an anatomical character correctly.

Name
6.Create anatomical characters more efficiently.

Name
7.Sculpt detail into a character to add to its realism.

FDMA 2770 - Critical Game Studies

General

Subject code	Course Number	Course Title
FDMA	2770	Critical Game Studies

Description
Focus on creating a complete design document utilizing techniques and standards used in the industry today. (2+2P)
Repeatable: for up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 200

FDMA 2775 - Game Tools and Techniques

General

Subject code	Course Number	Course Title
FDMA	2775	Game Tools and Techniques

Description
Focus on the different engines and gaming technologies that power the games of today.
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Students will develop rapid prototyping techniques. Through classroom exercises the students will gain competency in industry-standard game creation engines and tools, and learn to work together in groups to create rapid prototypes. This includes creating art, sound and music, and creating basic scripts within an engine.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA2770 Critical Game Studies

Common Course Numbering Crosswalk

Past Course Numbers
CMT 252

FDMA 2780 - Gaming Platform and Standards

General

Subject code	Course Number	Course Title
FDMA	2780	Gaming Platform and Standards

Description
Focus on the different gaming platforms and their corresponding gaming demographics and standards.
Restricted to: Digital majors.
Repeatable: for up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1.Break down the different types of bugs found in alpha and beta versions of games.

Name
2.Learning how to write and submit bug reports using current industry requirements.

Name
3.Communicate clearly within a team environment.

Name
4.Learn how each of the major platforms receive game submissions as well as the requirements for each platform.

FDMA 2785 - Level Design Concepts

General

Subject code	Course Number	Course Title
FDMA	2785	Level Design Concepts

Description
Focus on the design and creation of video game levels. Dealing with the challenges and pitfalls of different video game genres. (2+2P)
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Students will develop level design skills.

Name
2. Through classroom exercises the students will gain a comfortable competency with designing levels both on paper and digitally.

Name
3. This includes creating first person shooter levels, third person levels, multiplayer level design, and more.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA2770 Critical Game Studies

Common Course Numbering Crosswalk

Past Course Numbers
CMT 228

FDMA 2993 - Workshop in Film & Digital Media Arts

General

Subject code	Course Number	Course Title
FDMA	2993	Workshop in Film & Digital Media Arts

Description
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.
Repeatable: up to 7 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA1545 Introduction to Photography & Digital Imaging

Common Course Numbering Crosswalk

Past Course Numbers
CMT 276

FDMA 2994 - Portfolio in Film & Digital Media Arts

General

Subject code	Course Number	Course Title
FDMA	2994	Portfolio in Film & Digital Media Arts

Description
Varies
Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 295

FDMA 2995 - Cooperative Education in Film & Digital Media Arts

General

Subject code	Course Number	Course Title
FDMA	2995	Cooperative Education in Film & Digital Media Arts

Description
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.
Repeatable: up to 9 credits.
Graded: S/U.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FDMA2125 Film Crew II

Common Course Numbering Crosswalk

Past Course Numbers
CMT 226

FDMA 2996 - Topics in Film & Digital Media

General

Subject code	Course Number	Course Title
FDMA	2996	Topics in Film & Digital Media

Description
Specific topics to be announced in the Schedule of Classes.
Repeatable: for a maximum of 18 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 255

FDMA 2997 - Independent Study in Film & Digital Media Arts

General

Subject code	Course Number	Course Title
FDMA	2997	Independent Study in Film & Digital Media Arts

Description
Individual studies directed by consenting faculty with prior approval of department head.
Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 298

FDMA 2998 - Field Experience in Film & Digital Media Arts

General

Subject code	Course Number	Course Title
FDMA	2998	Field Experience in Film & Digital Media Arts

Description
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.
Repeatable: up to 9 credits.
Graded: S/U.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
CMT 221

FIRE 101 - Firefighter I

General

Subject code	Course Number	Course Title
FIRE	101	Firefighter I

Description
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).
Repeatable: up to 8 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): OEEM103 Heartsaver First Aid/CPR and FIRE115 Hazardous Materials Awareness and Operations

FIRE 102 - Fire Fighter I and II

General

Subject code	Course Number	Course Title
FIRE	102	Fire Fighter I and II

Description
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].

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): FIRE115 Hazardous Materials Awareness and Operations, FIRE252 Vehicle Extrication and OEEM103 Heartsaver First Aid/CPR

FIRE 104 - Firefighter II

General

Subject code	Course Number	Course Title
FIRE	104	Firefighter II

Description
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).
Repeatable: up to 8 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** FIRE252 Vehicle Extrication
- **Prerequisite(s):** A grade of C or better in FIRE101 Firefighter I

FIRE 112 - Principles of Emergency Services

General

Subject code	Course Number	Course Title
FIRE	112	Principles of Emergency Services

Description
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. Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 114 - Fire Behavior and Combustion

General

Subject code	Course Number	Course Title
FIRE	114	Fire Behavior and Combustion

Description
This course explores the theories and fundamentals of how and why fires start, spread, and are controlled.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 115 - Hazardous Materials Awareness and Operations

General

Subject code	Course Number	Course Title
FIRE	115	Hazardous Materials Awareness and Operations

Description
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).
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 120 - Fire Protection Hydraulics and Water Supply

General

Subject code	Course Number	Course Title
FIRE	120	Fire Protection Hydraulics and Water Supply

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): FIRE128 Apparatus and Equipment

FIRE 126 - Fire Prevention

General

Subject code	Course Number	Course Title
FIRE	126	Fire Prevention

Description
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).

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 128 - Apparatus and Equipment

General

Subject code	Course Number	Course Title
FIRE	128	Apparatus and Equipment

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 130 - Principles of Fire and Emergency Services Safety and Survival

General

Subject code	Course Number	Course Title
FIRE	130	Principles of Fire and Emergency Services Safety and Survival

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 200 - Special Topics

General

Subject code	Course Number	Course Title
FIRE	200	Special Topics

Description
Specific subjects to be announced in the Schedule of Classes. Course Repeatable: for credit as topics change.
Repeatable: up to 12 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 201 - Independent Study

General

Subject code	Course Number	Course Title
FIRE	201	Independent Study

Description
Research on an approved topic to meet graduation requirements. Meets or exceeds NFPA standards.
Repeatable: for total of 9 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 202 - Introduction to Wildland Fire Behavior

General

Subject code	Course Number	Course Title
FIRE	202	Introduction to Wildland Fire Behavior

Description
This is the first and foundational wildland fire behavior course in a five-course sequence in the NWCG
curriculum. It introduces students to the basic concepts of wildland fire behavior, including:
• The primary wildland fire environment components: fuels, weather, and topography;
• How characteristics and interactions of fuels, weather, and topography affect fire behavior;
• How fire behavior affects risk to firefighters.

General Education Course
Technical

FIRE 203 - Fire and Emergency Services Administration

General

Subject code	Course Number	Course Title
FIRE	203	Fire and Emergency Services Administration

Description
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. Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 210 - Building Construction for Fire Protection

General

Subject code	Course Number	Course Title
FIRE	210	Building Construction for Fire Protection

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 220 - Cooperative Experience I

General

Subject code	Course Number	Course Title
FIRE	220	Cooperative Experience I

Description
Supervised cooperative work program. Student is employed in an approved occupation and rated by the employer and instructor.
Repeatable: for a maximum of 6 credits.
Graded: S/U.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 221 - Cooperative Experience II

General

Subject code	Course Number	Course Title
FIRE	221	Cooperative Experience II

Description
Apply advanced firefighting knowledge and skills while working with fire protection agencies. Meets or exceeds NFPA standards.
Graded: S/U.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FIRE220 Cooperative Experience I

FIRE 223 - Fire Investigations I

General

Subject code	Course Number	Course Title
FIRE	223	Fire Investigations I

Description
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).

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 224 - Strategy and Tactics

General

Subject code	Course Number	Course Title
FIRE	224	Strategy and Tactics

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 225 - Fire Protection Systems

General

Subject code	Course Number	Course Title
FIRE	225	Fire Protection Systems

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 230 - Fire Service Instructor

General

Subject code	Course Number	Course Title
FIRE	230	Fire Service Instructor

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 232 - Firefighter Internship

General

Subject code	Course Number	Course Title
FIRE	232	Firefighter Internship

Description
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: Fire Science majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 233 - Practical Approach to Terrorism

General

Subject code	Course Number	Course Title
FIRE	233	Practical Approach to Terrorism

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FIRE 252 - Vehicle Extrication

General

Subject code	Course Number	Course Title
FIRE	252	Vehicle Extrication

Description
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).
Repeatable: up to 2 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

FREN 1110 - French I

General

Subject code	Course Number	Course Title
FREN	1110	French I

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Students can communicate and exchange information about familiar topics using phrases and simple sentences, sometimes supported by memorized language.

Name
2.Students can usually handle short social interactions in everyday situations by asking and answering simple questions.

Name
3.Students can write short messages and notes on familiar topics related to everyday life.

Name
4.Students can often understand words, phrases, and simple sentences related to everyday life.

Name
5.Students can recognize pieces of information and sometimes understand the main topic of what is being said.

Name
6.Students can understand familiar words, phrases, and sentences within short and simple texts related to everyday life.

Name
7.Students can sometimes understand the main idea of what they have read.

Name
8.Students can identify beliefs, behaviors and cultural artifacts of the French-speaking world.

Name
9.In English, students will engage with social issues confronting the French-speaking world to develop their sense of personal and social responsibility.

Common Course Numbering Crosswalk

Past Course Numbers
FREN 111

FREN 1120 - French II

General

Subject code	Course Number	Course Title
FREN	1120	French II

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Students can participate in conversations on a number of familiar topics using simple sentences.

Name
2.Students can handle short social interactions in everyday situations by asking and answering simple questions.

Name
3.Students can write briefly about most familiar topics and present information using a series of simple sentences.

Name
4.Students can understand the main idea in short, simple messages and presentations on familiar topics.

Name
5.Students can understand the main idea of simple conversations that they overhear.

Name
6.Students can understand the main idea of short and simple texts when the topic is familiar.

Name
7.Students can describe and make comparisons between decisions about beliefs, behaviors and cultural artifacts of the French-speaking world.

Name
8.Students will engage with social issues confronting the French-speaking world to continue to develop their sense of personal and social responsibility.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FREN1110 French I

Common Course Numbering Crosswalk

Past Course Numbers
FREN 112

FREN 2110 - French III

General

Subject code	Course Number	Course Title
FREN	2110	French III

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Students can participate in conversations on familiar topics using sentences and series of sentences.

Name
2.Students can engage in short social interactions in everyday situations by asking and answering a variety of questions. Students can usually say what they want to say about themselves and their everyday life.

Name
3.Students can write on a wide variety of familiar topics using connected sentences.

Name
4.Students can understand the main idea in messages and presentations on a variety of topics related to everyday life and personal interests and studies.

Name
5.Students can understand the main idea of conversations that they overhear.

Name
6.Students can understand the main idea of texts related to everyday life and personal interests or studies.

Name
7.Students can analyze beliefs, behaviors and cultural artifacts of the French-speaking world, and discuss the nature and value of French and Francophone products, practices, and perspectives.

Name
8.Students will engage with social issues confronting the French-speaking world to continue to develop their sense of personal and social responsibility.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FREN1120 French II

Common Course Numbering Crosswalk

Past Course Numbers
FREN 211

FREN 2120G - French IV

General

Subject code	Course Number	Course Title
FREN	2120G	French IV

Description
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. Repeatable: up to 3 credits.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students can participate with ease and confidence in conversations on familiar topics. They can usually describe people, places, and things. They can usually talk about events and experiences in various time frames.

Name
2. Students can handle social interactions in everyday situations, sometimes even when there is an unexpected complication.

Name
3. Students can write about topics related to school, work, and community in a generally organized way. They can write some simple paragraphs about events and experiences in various time frames.

Name
4. Students can easily understand the main idea in messages and presentations on a variety of topics related to everyday life and personal interests and studies.

Name
5. Students can usually understand a few details of what I overhear in conversations, even when something unexpected is expressed. The student can sometimes follow what they hear about events and experiences in various time frames.

Name
6. Students can understand the main idea of texts with topics related to everyday life, personal interests, and studies, as well as sometimes follow stories and descriptions about events and experiences in various time frames.

Name
7. Students can analyze beliefs, behaviors and cultural artifacts of the French-speaking world, and recognize and discuss the representations and controversies of French and Francophone products, practices, and perspectives.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FREN2110 French III

Common Course Numbering Crosswalk

Past Course Numbers
FREN 212

FSTE 1120 - ACES in the Hole Foods I

General

Subject code	Course Number	Course Title
FSTE	1120	ACES in the Hole Foods I

Description
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.

Learning Outcomes

Name
1.Apply basic scientific principles, procedures, techniques and standards in the production of food products.

Name
2.Apply principles of sanitation and safety to the production of food products.

Name
3.Assist in the development and evaluation of new and/or existing food products made for human consumption.

Name
4.Prepare a resume and portfolio.

Common Course Numbering Crosswalk

Past Course Numbers
FSTE 175

FSTE 2110G - Food Science I

General

Subject code	Course Number	Course Title
FSTE	2110G	Food Science I

Description
The scientific study of the principles involved in the preparation and evaluation of foods. (3+2P)
Repeatable: up to 4 credits.

Learning Outcomes

Name
1. Explain basic scientific principles involved in the preparation of high quality food products.

Name
2. Utilize scientific inquiry in the experimental investigation of factors influencing the chemical, physical and sensory properties of food products.

Name
3. Apply basic scientific principles, procedures, techniques and standards in the preparation of all types of high quality food products.

Name
4. Use basic methods of quantitative analysis to critically evaluate quality characteristics of food.

Name
5. Use sensory science techniques and terminology to critically evaluate acceptability and quality characteristics of food.

Name
6. Describe high quality characteristics of a variety of food products using appropriate terminology.

Name
7. Apply principles of sanitation and safety to food preparation.

Common Course Numbering Crosswalk

Past Course Numbers
FSTE 263G

FSTE 2120 - ACES in the Hole Foods II

General

Subject code	Course Number	Course Title
FSTE	2120	ACES in the Hole Foods II

Description
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.
Repeatable: up to 4 credits.

Learning Outcomes

Name
1.Apply basic scientific principles, procedures, techniques and standards in the production of food products.

Name
2.Apply principles of sanitation and safety to the production of food products.

Name
3.Assist in the development and evaluation of new and/or existing food products made for human consumption.

Name
4.Prepare a resume and portfolio.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FSTE1120 ACES in the Hole Foods I

Common Course Numbering Crosswalk

Past Course Numbers
FSTE 275

FSTE 2130G - Survey of Food and Agricultural Issues

General

Subject code	Course Number	Course Title
FSTE	2130G	Survey of Food and Agricultural Issues

Description
(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.)
Crosslist: AEEC 2130G.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Understand of global agriculture including production techniques used in various geographical regions, consumption trends, and political and social constraints.

Name
2. Synthesis information about agricultural issues and make informed arguments.

Name
3. Articulately discuss modern issues in agriculture.

Name
4. Write coherent arguments relative to personal beliefs regarding agricultural issues.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in AEEC2130G Survey of Food and Agricultural Issues

Common Course Numbering Crosswalk

Past Course Numbers
FSTE 210G

FSTE 2996 - Topics in Food Science and Technology

General

Subject code	Course Number	Course Title
FSTE	2996	Topics in Food Science and Technology

Description
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.

Learning Outcomes

Name
1. Student learning objectives vary based on topic.

Common Course Numbering Crosswalk

Past Course Numbers
FSTE 200

FWCE 1110G - Introduction to Natural Resources Management

General

Subject code	Course Number	Course Title
FWCE	1110G	Introduction to Natural Resources Management

Description
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. (3+2P)
Provides lab.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Students should be able to recall, describe and explain the laws, treaties and acts that have led to our current management of natural resources in the United States.

Name
2. Students should recognize or explain what ecological processes are, the importance of ecological processes in maintaining ecosystem function and how human activities change ecological processes and the ecosystems dependent on those processes.

Name
3. In each of the six course and lab modules (water quality, soils, forestry, rangelands, wildlife and fisheries) students should be able to recall, describe and explain basic terminology, fundamental ecological principles and management techniques and challenges.

Name
4. Students should be able to interpret data presented graphically and in tables from class exercises and lectures.

Name
5. Students should be able to solve problems scientifically through field data collection, laboratory analyses and the use of quantitative methods (basic statistics, tables and graphs).

Name
6. Students should be able to communicate results from laboratory exercises (6 lab modules) orally and in writing.

Name
7. Students will learn to apply scientific thinking to real world problems through in class discussion and short essays based on material from case studies presented in class and guest speakers.

Common Course Numbering Crosswalk

Past Course Numbers
FWCE 110G

FWCE 1120 - Contemporary Issues in Wildlife and Natural Resources Management

General

Subject code	Course Number	Course Title
FWCE	1120	Contemporary Issues in Wildlife and Natural Resources Management

Description
Ecological, socioeconomic, and political issues surrounding the management of our natural resources with an emphasis on fish and wildlife resources.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
FWCE 109

FWCE 2110 - Principles of Fish and Wildlife Management

General

Subject code	Course Number	Course Title
FWCE	2110	Principles of Fish and Wildlife Management

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.The goal of this course is to provide a firm foundation in the principles of wildlife and fisheries management.

Name
2.Material will include a background in biological principles geared towards animal populations, characteristics and management of the habitats utilized by fish and wildlife, techniques used to study and manage animals and their habitats, and aspects of the human dimension involved in wildlife and fisheries issues.

Name
3.This course serves as a core requirement for degrees offered in the Department of Fish, Wildlife and Conservation Ecology and as a required course for degrees in other departments such as Rangeland Resources.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in FWCE1110G Introduction to Natural Resources Management

Common Course Numbering Crosswalk

Past Course Numbers
FWCE 255

FYEX 1110 - First-Year Seminar

General

Subject code	Course Number	Course Title
FYEX	1110	First-Year Seminar

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Recognize the ways in which s/he is responsible for her/his own experience in education.

Name
2.Identify, locate, and utilize available campus resources essential for academic success.

Name
3.Create long- and short-term goals associated with student success and career planning.

Name
4.Implement time management techniques to organize the semesters workload.

Name
5.Develop strategies to use individual strengths to succeed and reflect upon coursework and course progress in multiple classes to alter academic behaviors and create deeper meaning and learning.

Name
6.Apply the skills essential for analyzing and solving problems in her/his academic, professional, and personal life, which may include financial literacy and wellness management.

Name
7.Develop and apply essential skills such as reading, taking notes, studying, memorizing, taking tests, and self-management skills necessary for college success.

Name
8.Identify and revise self-defeating patterns of behavior, thought, and emotion as well as unconscious limiting beliefs.

Name
9.Develop supportive relationships with members of the campus community.

Name
10.Develop essential reading, writing, and critical thinking skills used in study and in research.

Name
11.Demonstrate understanding of how to use the computer for academic purposes, including learning management systems, email communications, research databases, degree audit, and other online resources.

Common Course Numbering Crosswalk

Past Course Numbers
COLL 101

FYEX 1111 - Introduction to College Studies

General

Subject code	Course Number	Course Title
FYEX	1111	Introduction to College Studies

Description
Introduction to College Studies, is a comprehensive 16-week course designed to equip first-year students with essential strategies for achieving both academic and personal success. The curriculum covers vital topics including personal responsibility, goal setting, and time management, with the overarching goal of empowering students with the skills and mindset needed for success throughout their college journey and beyond. Additionally, the course introduces students to interdisciplinary theory, fostering exploration of connections among academic disciplines and guiding them in the development of their own personalized theory of interdisciplinary studies.

General Education Course
Academic

Learning Outcomes

Name
1.Describe ones own career and life goals in the context of interdisciplinary theory.

Name
2.List examples of managing ones own academic responsibilities, employing effective time management techniques to establish and manage short and long-term goals.

Name
3.Identify campus resources that may be used for academic and career planning, as well as for overcoming barriers to college success.

Name
4.Utilize technology, including online resources, for academic purposes.

Name
5.Select examples of effective study strategies for optimized learning and academic performance.

Name
6.Develop a distinct career and disciplinary (or interdisciplinary) identity aligned with personal strengths and academic-professional goals.

Name
7.Demonstrate participation in campus events to foster community involvement and personal development.

Name
8.Show collaborations in community-building projects to cultivate supportive relationships.

Name
9.Discuss the significance of relationships in promoting academic and personal achievement.

FYEX 1112 - The Freshman Year Experience

General

Subject code	Course Number	Course Title
FYEX	1112	The Freshman Year Experience

Description
An introduction to the university and its resources; emphasis on development of academic and personal skills that enable freshmen to become successful learners. Prerequisite(s): Freshman Standing Only.

General Education Course
Academic

Learning Outcomes

Name
1.Appreciate the goals, methods, and values of higher education.

Name
2.Expand intellectual development and self-direction.

Name
3.Establish a faculty mentor relationship.

Name
4.Enhance knowledge and practice of collaborative learning principles.

Name
5.Establish a familiarity with campus resources and student services.

Name
6.Develop public speaking, critical thinking, library research, and study strategies.

Name
7.Evaluate talents and interest in relation to selecting a major and career planning.

Name
8.Examine and clarify values.

Name
9.Acknowledge and enhance respect for diversity.

Common Course Numbering Crosswalk

Past Course Numbers
UNIV 150

FYEX 1115 - Transition from Military to University

General

Subject code	Course Number	Course Title
FYEX	1115	Transition from Military to University

Description
Making a positive transition from military to civilian life is key to success. This course will cover a variety of topics ranging from time management to critical thinking. This course is designed to assist military and veteran students in becoming more effective learners through self-awareness, effectiveness study & learning strategies, and interpersonal skills. Skills and techniques for managing military to civilian readjustment transition issues are discussed and examined.

General Education Course
Academic

Learning Outcomes

Name
1.Demonstrate skills necessary to transition from a military to academic environment.

Name
2.Analyze acquired military skillsets and connect to academic major and career.

Name
3.Understand and demonstrate effective time management, test-taking strategies, stress management, and other key college success skills.

Name
4.Identify and utilize campus resources and student services.

FYEX 1116 - Managing Your Money

General

Subject code	Course Number	Course Title
FYEX	1116	Managing Your Money

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Demonstrate understanding of the psychology of money and how it relates to personal financial decisions.

Name
2.Create realistic short- and long-term financial goals and a personal budget.

Name
3.Comprehend and manage college finances, including types of financial aid.

Name
4.Appreciate the importance of the Free Application for Federal Student Aid (FAFSA).

Name
5.Describe the financial aspects of career development and how they apply to their own lives, including resume, taxes, salary, benefits.

Name
6.Apply principles of student loan management.

Name
7.Demonstrate use of credit reports in the prevention identity theft.

Name
8.Identify essential elements of smart spending and borrowing.

Name
9. Recognize debt and repayment costs.

Name
10.Explain the basics of saving and planning for the financial future.

Name
11.Create focused, developed, clear discussion posts and other written work for this class.

Common Course Numbering Crosswalk

Past Course Numbers
COLL 103

FYEX 1117 - Financial Literacy Money Matters

General

Subject code	Course Number	Course Title
FYEX	1117	Financial Literacy Money Matters

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Master effective strategies and other skills related to financial literacy.

Name
2.Establish a familiarity with campus resources designed to foster financial literacy and wellness.

Name
3.Exhibit intellectual development and self-direction in relation to financial literacy and wellness.

Name
4.Identify financial literacy skills which best support individual financial well-being.

Name
5.Demonstrate skills and knowledge that allows the student to make informed and effective decisions with all of their financial resources.

Common Course Numbering Crosswalk

Past Course Numbers
UNIV 114

FYEX 1131 - Personal Learning Skills I

General

Subject code	Course Number	Course Title
FYEX	1131	Personal Learning Skills I

Description
Individualized programs for self-improvement in skill areas necessary for academic success in the university environment. Each course to bear an appropriate subtitle.
Grading: S/U.
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Synthesize the importance of critical thinking through self-reflection and self-exploration.

Name
2.Analyze and apply critical thinking skills using the eight intellectual standards.

Name
3.Describe the common barriers to critical thinking and construct problem solving strategies.

Name
4.Evaluate information and knowledge to determine misinformation and inaccuracies.

Name
5.Demonstrate information literacy by recognizing when information is needed and being able to efficiently locate, accurately evaluate, effectively use, and clearly communicate the information in various formats and mediums.

Common Course Numbering Crosswalk

Past Course Numbers
UNIV 110

FYEX 1132 - Academic and Personal Effectiveness

General

Subject code	Course Number	Course Title
FYEX	1132	Academic and Personal Effectiveness

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Students will demonstrate mastery of Student Learning Outcomes in time management, stress management, test taking, and other skills through completion of activities, quizzes, discussions, and more.

Name
2.Students will be able to identify SENMC campus resources, including their services, location, and contact information.

Name
3.Students will exhibit intellectual development and an improved self-direction through participation in the course.

Name
4.Students will be able to identify and adopt those management skills which best support academic and career choices.

Common Course Numbering Crosswalk

Past Course Numbers
UNIV 112

FYEX 1133 - Academic Reading and Study Skills

General

Subject code	Course Number	Course Title
FYEX	1133	Academic Reading and Study Skills

Description
Introduction to and practice with strategies for effective reading and studying at the college level.

General Education Course
Academic

Learning Outcomes

Name
1.Use reading strategies to synthesize texts.

Name
2.Identify rhetorical elements of texts.

Name
3.Identify and apply different study methods.

Name
4.Recognize the role of student support services for student success.

Name
5.Identify and practice effective time management skills.

Name
6.Demonstrate proficient computer skills.

Name
7.Write an effective summary.

Common Course Numbering Crosswalk

Past Course Numbers
COLL 108

FYEX 1134 - Speed Reading

General

Subject code	Course Number	Course Title
FYEX	1134	Speed Reading

Description
Introduction to strategies and techniques for increasing reading rate and comprehension related to academic areas.

General Education Course
Academic

Learning Outcomes

Name
1.Demonstrate an understanding of speed reading strategies and eye movement drills.

Name
2.Expand vocabulary and reading comprehension.

Name
3.Improve reading rates and develop reading techniques.

Name
4.Demonstrate an understanding of skimming techniques and scanning strategies.

Common Course Numbering Crosswalk

Past Course Numbers
UNIV 113

FYEX 1140 - Career Exploration

General

Subject code	Course Number	Course Title
FYEX	1140	Career Exploration

Description
Survey of careers possible with community college associate degrees. Information on how to make a career choice.

General Education Course
Academic

Learning Outcomes

Name
1.Desired career and lifestyle.

Name
2.Areas of interest.

Name
3.Skills and abilities.

Name
4.Personal values.

Name
5.Programs that match the students interests, abilities, and values.

Name
6.Three careers that match the students interests, abilities, values, and personality.

Common Course Numbering Crosswalk

Past Course Numbers
COLL 120

FYEX 1150 - Diversity at the University

General

Subject code	Course Number	Course Title
FYEX	1150	Diversity at the University

Description
In this course students will engage in discussions about diversity at the university, what it means in today's society and local community, and build on its complexity. Graded: S/U.

General Education Course
Academic

Learning Outcomes

Name
1.Acknowledge and enhance sensitivity and respect for diversity.

Name
2.Recognize and gain insight to diversity issues on college campuses.

Name
3.Analyze and interpret information about cultural differences, cultural rules, and cultural biases in their own society or about non-dominant or marginalized groups.

Name
4.Articulate ways in which social identities such as race, class, and gender intersect to influence individual life experiences and/or perspectives on and off campus.

Name
5. influence individual life experiences and/or perspectives on and off campus.

Name
6.Integrate, synthesize, and apply knowledge of other cultures in both a broad and focused context.

FYEX 1160 - Tutorial

General

Subject code	Course Number	Course Title
FYEX	1160	Tutorial

Description
Development of specific skills required for college courses, such as note-taking, listening, and test-taking. To be taken in conjunction with a regular designated college course.
Repeatable: up to 3 credits.
Grading: S/U.

General Education Course
Academic

Learning Outcomes

Name
1.Demonstrate the ability to organize their time in order to improve study habits.

Name
2.Apply pre-reading strategies to improve reading concentration and comprehension.

Name
3.Demonstrate basic understanding of the systems of the body.

Name
4.Identify techniques to improve personal concentration and comprehension skills.

Name
5.Identify and demonstrate listening skills.

Name
6.Identify effective study and note taking skills.

Name
7.Identify and demonstrate effective test-taking skills.

Name
8.Identify critical thinking skills used in nursing.

Name
9.Demonstrate knowledge of key terms.

Common Course Numbering Crosswalk

Past Course Numbers
UNIV 101

FYEX 1170 - Gospel Choir

General

Subject code
FYEX

Course Number
1170

Course Title
Gospel Choir

Description
Students will gain performance experience and exposure to urban contemporary gospel music. Open to all majors. May be taken for unlimited credit.
Repeatable: for unlimited credit.

General Education Course
Academic

Learning Outcomes

Name
1.Comprehended the foundation related to singing in a gospel choir setting.

Name
2.Demonstrate an understanding of the difference between the musical treble and bass clef.

Name
3.Expand vocabulary and reading comprehension of gospel music terminology.

Name
4.Improve the speed and accuracy of music sheet and sight reading.

Common Course Numbering Crosswalk

Past Course Numbers
UNIV 161

FYEX 1995 - Cooperative Education in First Year Experience

General

Subject code
FYEX

Course Number
1995

Course Title
Cooperative Education in First Year Experience

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Demonstrate skills related to securing experiential learning experiences.

Name
2.Demonstrate knowledge related to the philosophies and approaches to resumes, cover letters, interviewing, cooperative education and internship search, and networking.

Name
3.Comprehend the importance of experiential learning experiences in relation to career development.

Name
4.Evaluate experiential learning opportunities and demonstrate comprehension of the skills and strategies necessary to transition from student to career.

Common Course Numbering Crosswalk

Past Course Numbers
UNIV 116

FYEX 1996 - Topics in First Year Experience

General

Subject code
FYEX

Course Number
1996

Course Title
Topics in First Year Experience

Description
Covers specific study skills and critical thinking topics. Specific sub-titles to be listed in the Schedule of Classes.
Repeatable: up to 8 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
COLL 155

FYEX 2111 - Critical Thinking Skills

General

Subject code	Course Number	Course Title
FYEX	2111	Critical Thinking Skills

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Students will raise vital questions and problems, formulating them clearly and precisely.

Name
2.Students will gather and assess relevant information, using abstract ideas to interpret it effectively, come to well-reasoned conclusions and solutions, and them against relevant criteria and standards.

Name
3.Students will think open-mindedly within alternative systems of thought, recognizing and assessing assumptions, implications, and practical consequences.

Name
4.Students will communicate effectively in figuring out solutions to complex problems.

Common Course Numbering Crosswalk

Past Course Numbers
COLL 201

GE I 1XG3 - General Education Area I

General

Subject code	Course Number	Course Title
GEI	1XG3	General Education Area I

Description
Area I General Education Course

GE I 1XG4 - General Education Area I

General

Subject code	Course Number	Course Title
GEI	1XG4	General Education Area I

GE I 2XG3 - General Education Area I

General

Subject code	Course Number	Course Title
GEI	2XG3	General Education Area I

Description
Area I General Education Course

GE I 2XG4 - General Education Area I

General

Subject code	Course Number	Course Title
GEI	2XG4	General Education Area I

Description
Area I General Education Course

GE II 1XG3 - General Education Area II

General

Subject code	Course Number	Course Title
GEII	1XG3	General Education Area II

Description
Area II General Education Course

GE II 1XG4 - General Education Area II

General

Subject code	Course Number	Course Title
GEII	1XG4	General Education Area II

Description
Area II General Education Course

GE II 1XG5 - General Education Area II

General

Subject code	Course Number	Course Title
GEII	1XG5	General Education Area II

Description
Area II General Education Course

GE II 2XG3 - General Education Area II

General

Subject code	Course Number	Course Title
GEII	2XG3	General Education Area II

Description
Area II General Education Course

GE II 2XG4 - General Education Area II

General

Subject code	Course Number	Course Title
GEII	2XG4	General Education Area II

Description
Area II General Education Course

GE III 1XG1 - General Education Area III

General

Subject code	Course Number	Course Title
GEIII	1XG1	General Education Area III

Description
Area III General Education Course Lab

GE III 1XG3 - General Education Area III

General

Subject code	Course Number	Course Title
GEIII	1XG3	General Education Area III

Description
Area III General Education Course

GE III 1XG4 - General Education Area III

General

Subject code	Course Number	Course Title
GEIII	1XG4	General Education Area III

Description
Area III General Education Course

GE III 2XG1 - General Education Area III

General

Subject code	Course Number	Course Title
GEIII	2XG1	General Education Area III

Description
Area III General Education Course Lab

GE III 2XG3 - General Education Area III

General

Subject code	Course Number	Course Title
GEIII	2XG3	General Education Area III

Description
Area III General Education Course

GE III 2XG4 - General Education Area III

General

Subject code	Course Number	Course Title
GEIII	2XG4	General Education Area III

Description
Area III General Education Course

GE IV 1XG3 - General Education Area IV

General

Subject code	Course Number	Course Title
GEIV	1XG3	General Education Area IV

Description
Area IV General Education Course

GE IV 1XG4 - General Education Area IV

General

Subject code	Course Number	Course Title
GEIV	1XG4	General Education Area IV

Description
Area IV General Education Course

GE IV 2XG3 - General Education Area IV

General

Subject code	Course Number	Course Title
GEIV	2XG3	General Education Area IV

Description
Area IV General Education Course

GE IV 2XG4 - General Education Area IV

General

Subject code	Course Number	Course Title
GEIV	2XG4	General Education Area IV

Description
Area IV General Education Course

GE V 1XG3 - General Education Area V

General

Subject code	Course Number	Course Title
GEV	1XG3	General Education Area V

Description
Area V General Education Course

GE V 1XG4 - General Education Area V

General

Subject code	Course Number	Course Title
GEV	1XG4	General Education Area V

Description
Area V General Education Course

GE V 2XG3 - General Education Area V

General

Subject code	Course Number	Course Title
GEV	2XG3	General Education Area V

Description
Area V General Education Course

GE V 2XG4 - General Education Area V

General

Subject code	Course Number	Course Title
GEV	2XG4	General Education Area V

Description
Area V General Education Course

GE VI 1XG3 - General Education Area VI

General

Subject code	Course Number	Course Title
GEVI	1XG3	General Education Area VI

Description
Area VI General Education Course

GE VI 1XG4 - General Education Area VI

General

Subject code	Course Number	Course Title
GEVI	1XG4	General Education Area VI

Description
Area VI General Education Course

GE VI 2XG3 - General Education Area VI

General

Subject code	Course Number	Course Title
GEVI	2XG3	General Education Area VI

Description
Area VI General Education Course

GE VI 2XG4 - General Education Area VI

General

Subject code	Course Number	Course Title
GEVI	2XG4	General Education Area VI

Description
Area VI General Education Course

GE VII 1XG3 - General Education Area VII

General

Subject code	Course Number	Course Title
GEVII	1XG3	General Education Area VII

Description
Area VII General Education Course

GE VII 1XG4 - General Education Area VII

General

Subject code	Course Number	Course Title
GEVII	1XG4	General Education Area VII

Description
Area VII General Education Course

GE VII 2XG3 - General Education Area VII

General

Subject code	Course Number	Course Title
GEVII	2XG3	General Education Area VII

Description
Area VII General Education Course

GE VII 2XG4 - General Education Area VII

General

Subject code	Course Number	Course Title
GEVII	2XG4	General Education Area VII

Description
Area VII General Education Course

GEOG 1110G - Physical Geography

General

Subject code	Course Number	Course Title
GEOG	1110G	Physical Geography

Description
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. (3+3P)

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Define, describe, illustrate, distinguish among or explain the use of maps, map scale, globes, map projections, and remote sensing.

Name
2. Define, describe, illustrate, distinguish among or explain the various elements of the earths atmosphere, earths relation to the sun, incoming solar radiation, the ozone layer, the primary temperature controls, and the unequal heating of land and water.

Name
3. Define, describe, illustrate, distinguish among or explain the weather makers (air temperature, air pressure, humidity, clouds, precipitation, visibility, and wind [including pressure gradient, the Coriolis force, and friction]).

Name
4. Define, describe, illustrate, distinguish among or explain air masses, pressure systems, the various fronts and associated types of storms, weather symbols, monsoons, the various forms of precipitation, along with causes and effects of lightning.

Name
5. Define, describe, illustrate or explain the hydrologic cycle, the characteristics and influences of the oceans and continents on the weather, the Southern Oscillation (i.e., El Nino), the effects of land/water distribution, and climates and their global distribution.

Name
6. Define, describe, illustrate or explain the biosphere, including organisms (flora and fauna), food chains, ecosystems and relationships. Define, describe, illustrate or explain soils in terms of soil-forming processes, components, properties, and classification.

Name
7. Define, describe, illustrate or explain the structure of the earth, the internal processes, weathering and mass wasting, fluvial processes, characteristics and processes of arid regions, processes of coastal and Karst topographical regions, the processes and characteristics of glaciation (mountainous and continental).

Name
8. Define, describe, illustrate, distinguish among or explain specific impacts by humans on weather, climate, and on the ecosystem at large.

Name
9. Perform tests and collect data to analyze and classify weather, climate and landforms characteristics, processes, and impacts both quantitatively and quantitatively. This includes reading and extracting basic information from maps, diagrams, remote sensing devices, graphs, and tables.

Name
10. Apply critical thinking skills such as inductive, deductive, and mathematical reasoning to solve problems using the scientific method. This includes interpreting maps, graphs and photos.

Name
11. Recognize and discuss the effect of human activity on climate, climate change, the greenhouse effect, and on landforms at large.

Name
12. Synthesize information from external, current sources and personal observations and discuss their relationships to class material.

Common Course Numbering Crosswalk

Past Course Numbers
GEOG 111G

GEOG 1120G - World Regional Geography

General

Subject code	Course Number	Course Title
GEOG	1120G	World Regional Geography

Description
Overview of the physical geography, natural resources, cultural landscapes, and current problems of the worlds major regions. Students will also examine current events at a variety of geographic scales.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Identify, describe, illustrate, distinguish among or explain the basic concepts of geography, the major world regions, area differences and similarities, the processes that shape geography natural and human, the use of maps, and the key topics of geographical interpretation (e.g., location, world importance, population, political status, resources, etc.).

Name
2. Identify, describe, illustrate, distinguish among or explain the regional groups of Europe, its historical background, its languages and religions, major features, the diversified economy, political structures, and impact on globalization.

Name
3. Identify, describe, illustrate, distinguish among or explain the regional groups of Russia and its satellite nations, its historical background, their languages and religions, major features, their diversified economies, political structures, current problems, and impact on globalization.

Name
4. Identify, describe, illustrate or explain the regional nations of Middle East, their historical background, their languages and religions, the major features, the diversified economies and political structures, the current problems.

Name
5. Identify, describe, illustrate, distinguish among or explain the regional groups of Asia, their historical background its languages and religions, major features, the diversified economy and political structures, current problems, and impact on globalization.

Name
6. Identify, describe, illustrate, distinguish among or explain the regional groups of the Pacific World, their historical background its languages and religions, major features, the diversified economy and political structures, current problems, and impact on globalization.

Name
7. Identify, describe, illustrate, distinguish among or explain the regional groups of Africa, their historical background its languages and religions, major features, the diversified economy and political structures, current problems, and impact on globalization.

Name
8. Identify, describe, illustrate, distinguish among or explain the regional groups of Latin America, their historical background its languages and religions, major features, the diversified economy and political structures, current problems, and impact on globalization.

Name
9. Identify, describe, illustrate, distinguish among or explain the regional groups of Anglo-America, their historical background its languages and religions, major features, the diversified economy and political structures, current problems, and impact on globalization.

Name
10. Collect data to analyze or classify the region various historical developments and trends relating to globalization.

Name
11. Apply critical thinking skills in predicting future developments and impacts in economics, cultural diversity, and political stability globally.

Name
12. Recognize and discuss current political hot-spots, their causes, and potential results with regards to globalization.

Name
13. Synthesize information the data into a comprehensive world-view.

Common Course Numbering Crosswalk

Past Course Numbers
GEOG 112G

GEOG 1130G - Human Geography

General

Subject code	Course Number	Course Title
GEOG	1130G	Human Geography

Description
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 in the world today.

General Education Course
Ara IV, Academic

Learning Outcomes

Name
1. Locate on maps, globes, and other technologies various geo-political spaces and places around the world, including in the United States.

Name
2. Describe the primary concepts, theories, methods and terms prevalent in the field of human geography.

Name
3. Apply core geographic concepts to the spatial patterns demonstrated in real-world scenarios.

Name
4. Identify the relationships that influence human-environment interaction in a specific location at a specific time.

Name
5. Define and utilize key concepts to explain human social and cultural change over time and across geographical space.

Name
6. Explain the geographic context of a current event or conflict.

Name
7. Identify a current event that illustrates a core cultural geographic concept.

Name
8. Think critically, discuss, and write about the relationships of the natural world to human geography.

Common Course Numbering Crosswalk

Past Course Numbers
GEOG 120G

GEOG 2130 - Map Use and Analysis

General

Subject code	Course Number	Course Title
GEOG	2130	Map Use and Analysis

Description
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. (2+3P)

General Education Course
Academic

Learning Outcomes

Name
1. Use appropriate map categories, symbols, and spatial reference systems to effectively and accurately portray, read, analyze, and interpret geographic data.

Name
2. Accurately measure bearings and distances on maps.

Name
3. Read and analyze terrain and landform maps to then interpret basic physical and cultural spatial patterns portrayed on maps.

Name
4. Use map, compass, and GPS for land navigation.

Common Course Numbering Crosswalk

Past Course Numbers
GEOG 281

GEOG 2996 - Topics in Geography

General

Subject code	Course Number	Course Title
GEOG	2996	Topics in Geography

Description
Specific subjects to be announced in the Schedule of Classes. Repeatable: for a maximum of 12 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
GEOG 291

GEOL 1110G - Physical Geology

General

Subject code	Course Number	Course Title
GEOL	1110G	Physical Geology

Description
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 the landscape. 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. (3+3P)

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Recall, describe or explain geologic vocabulary.

Name
2. Identify or explain aspects of the geologic time scale and compare the uses and limitations of relative and absolute dating.

Name
3. Recognize or explain the evidence used to support the theory of plate tectonics. Describe or identify how plate tectonics is related to the structure and features of the Earth.

Name
4. Describe the formation of, and describe, compare, and classify minerals.

Name
5. Identify or describe the three main rock types, how each forms in the context of the rock cycle and what each indicates about its environment of formation.

Name
6. Recognize or explain the fundamentals of surface and groundwater hydrology and discuss the impact of human activities on water quality and quantity.

Name
7. Describe or discuss the processes that are responsible for specific geologic hazards (e.g., earthquakes, volcanic eruptions, mass movement, flooding, etc.).

Name
8. Recognize or describe the geologic processes involved in the formation and concentration of geologic resources.

Common Course Numbering Crosswalk

Past Course Numbers
GEOL 111G

GEOL 1150 - Introduction to Rocks & Minerals

General

Subject code	Course Number	Course Title
GEOL	1150	Introduction to Rocks & Minerals

Description
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 (Continental Drift) 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. (2+3P)

General Education Course
Academic

Learning Outcomes

Name
1.The student Identify the main rock-forming minerals from each mineral group as demonstrated by scoring a total of 70% or more on the relevant laboratory exercise component. Studying minerals, the student will: Identify the main silicate minerals in hand specimens; Describe the environments in which these minerals form; Identify the rock types in which these minerals are found; Identify the main carbonate minerals in hand specimens; Describe the environments in which these minerals form; Identify the rock types in which these minerals are found; Identify the main sulphide minerals in hand specimens; Describe the environments in which these minerals form; Identify the rock types in which these minerals are found; Identify the main sulphate minerals in hand specimens; Describe the environments in which these minerals form; Identify the rock types in which these minerals are found; Identify the main halide minerals in hand specimens; Describe the environments in which these minerals form; Identify the rock types in which these minerals are found; Identify the main oxide minerals in hand specimens; Describe the environments in which these minerals form; Identify the rock types in which these minerals are found; Identify the main native elements in hand specimens; Describe the environments in which these minerals form; Identify the rock types in which these minerals are found.

Name
2.The student will understand the structure, composition, and genesis of rocks by identifying the principal igneous, sedimentary, and metamorphic rocks, as demonstrated by scoring a total of 70% or more on the relevant laboratory exercise components.

Name
3.Studying rocks, the student will: Define the principal igneous processes and features, identify the most common igneous rocks and their constituting minerals in hand specimens, and discuss their origin and interpretation; Describe the principles of sedimentary processes and features, identify the most common sedimentary rocks in hand specimens, and discuss their origin and interpretation; Describe the principles of metamorphic processes and features, identify the most common metamorphic rocks and constituting minerals in hand specimens, and discuss their origin and interpretation.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): GEOL1110G Physical Geology

GEOL 2130 - Introduction to Meteorology

General

Subject code	Course Number	Course Title
GEOL	2130	Introduction to Meteorology

Description
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. (3+3P)

General Education Course
Academic

Learning Outcomes

Name
1.Recall, describe, or explain the various elements of the Earths atmosphere, Earths relation to the sun, incoming solar radiation, the ozone layer, the primary temperature controls, and the unequal heating of land and water.

Name
2.Recall, describe, or explain weather variables and parameters.

Name
3.Recall, describe, or explain air masses, pressure systems, the various fronts and associated types of storms, weather symbols, monsoons, the various forms of precipitation, along with causes and effects of lightning.

Name
4.Recall, describe, or explain the hydrologic cycle, the characteristics and influences of the oceans and continents on the weather, the Southern Oscillation (i.e., El Nino), and the effects of land/water distribution.

Name
5.Recall, describe, or explain specific impacts by humans on weather, climate, and on the ecosystem at large.

Name
6.Evaluate and interpret information from maps, diagrams, remote sensing devices, graphs, and tables.

Name
7.Apply critical thinking skills such as inductive, deductive, and mathematical reasoning to solve problems using the scientific method.

Name
8.Recognize and discuss the effect of human activity on climate, climate change and the greenhouse effect.

Name
9.Synthesize information from external, current sources and personal observations and discuss their relationships to class material.

Common Course Numbering Crosswalk

Past Course Numbers
GEOG 257

GEOL 2996 - Topics in Geology

General

Subject code	Course Number	Course Title
GEOL	2996	Topics in Geology

Description
Specific subjects to be announced in the Schedule of Classes.
Repeatable: for a maximum of 12 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
GEOL 220

HIST 1105G - Making History

General

Subject code	Course Number	Course Title
HIST	1105G	Making History

Description
General introduction to history: how historians carry out research and develop interpretations about the past.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Understand and articulate the differences and similarities between history and memory.

Name
2. Analyze and critically interpret primary sources and understand how others might interpret and use the same material in different ways.

Name
3. Recognize and appreciate the diversity of historical experiences and the uses of historical memory in various societies.

Name
4. Understand how historical experiences that include political, geographical, social, cultural, religious and intellectual experiences have been expressed across historical periods.

Name
5. Understand how historical experiences and memories have shaped contemporary societies.

Name
6. Identify and understand the degree to which history has been used and misused in the past.

Name
7. Demonstrate improvement in their ability to read critically, think logically, and express themselves clearly in writing.

Common Course Numbering Crosswalk

Past Course Numbers
HIST 110G

HIST 1110G - United States History I

General

Subject code	Course Number	Course Title
HIST	1110G	United States History I

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will be able to EXPLAIN in their work how humans in the past shaped their own unique historical moments and were shaped by those moments, and how those cultures changed over the course of the centuries for the history of the United States from the pre-colonial period to the immediate aftermath of the Civil War. Bloom Taxonomys Cognitive Process: REMEMBER AND UNDERSTAND.

Name
2. Students will DISTINGUISH between primary and secondary sources, IDENTIFY and EVALUATE evidence and EMPATHIZE with people in their historical context. Bloom Taxonomys Cognitive Process: ANALYZE, REMEMBER, EVALUATE, CREATE.

Name
3. Students will SUMMARIZE and APPRAISE different historical interpretations and evidence in order to CONSTRUCT past events. Bloom Taxonomys Cognitive Process: UNDERSTAND, EVALUATE, APPLY.

Name
4. Students will IDENTIFY historical arguments in a variety of sources and EXPLAIN how they were constructed, EVALUATING credibility, perspective, and relevance. Bloom Taxonomys Cognitive Process: REMEMBER, UNDERSTAND, EVALUATE.

Name
5. Students will CREATE well-supported historical arguments and narratives that demonstrate an awareness of audience. Bloom Taxonomys Cognitive Process: CREATE, APPLY 8.

Name
6. Students will APPLY historical knowledge and historical thinking in order to infer what drives and motivates human behavior in both past and present. Bloom Taxonomys Cognitive Process: APPLY, ANALYZE 9.

Common Course Numbering Crosswalk

Past Course Numbers
HIST 201G

HIST 1120G - United States History II

General

Subject code	Course Number	Course Title
HIST	1120G	United States History II

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will be able to EXPLAIN in their work how humans in the past shaped their own unique historical moments and were shaped by those moments, and how those cultures changed over the course of the centuries for the history of the United States from the reconstruction to the present. Bloom Taxonomys Cognitive Process: REMEMBER AND UNDERSTAND.

Name
2. Students will DISTINGUISH between primary and secondary sources, IDENTIFY and EVALUATE evidence and EMPATHIZE with people in their historical context. Bloom Taxonomys Cognitive Process: ANALYZE, REMEMBER, EVALUATE, CREATE.

Name
3. Students will SUMMARIZE and APPRAISE different historical interpretations and evidence in order to CONSTRUCT past events. Bloom Taxonomys Cognitive Process: UNDERSTAND, EVALUATE, APPLY.

Name
4. Students will IDENTIFY historical arguments in a variety of sources and EXPLAIN how they were constructed, EVALUATING credibility, perspective, and relevance. Bloom Taxonomys Cognitive Process: REMEMBER, UNDERSTAND, EVALUATE.

Name
5. Students will CREATE well-supported historical arguments and narratives that demonstrate an awareness of audience. Bloom Taxonomys Cognitive Process: CREATE, APPLY .

Name
6. Students will APPLY historical knowledge and historical thinking in order to infer what drives and motivates human behavior in both past and present. Bloom Taxonomys Cognitive Process: APPLY, ANALYZE
10 11.

Common Course Numbering Crosswalk

Past Course Numbers
HIST 202G

HIST 1122G - History of Latino/a/x in the U.S.

General

Subject code	Course Number	Course Title
HIST	1122G	History of Latino/a/x in the U.S.

Description
This course will explore major themes that influence and characterize the experiences of various Hispanic and Latino/a/x populations in the regions of North America encompassing the contemporary United States. Through course lessons, readings, mixed media, and discussions, students will develop an appreciation for the diverse Latino/a/x groups that are estimated to comprise nearly 30% of the U.S. population by 2050. The elements of this course are designed to inform students on the key historical events and trends of culture, economics, immigration, politics, religion, and social life from pre-European contact up to the present day.

General Education Course
Area V, Academic

Learning Outcomes

Name
1.Students will be able to explain in their work how core concepts, events, and institutions in the history of Latino populations in the U.S., and how those cultures changed over the course of the centuries from the pre-colonial period to present. Bloom Taxonomys Cognitive Process: Remember and Understand.

Name
2.Students will distinguish between primary and secondary sources, identify, and evaluate evidence, and empathize with people in their historical context. Bloom Taxonomys Cognitive Process: Analyze, Remember, Evaluate, Create.

Name
3.Students will summarize and appraise diverse cultural, ethnic, and linguistic manifestations of Latino populations in the U.S. in order to construct past events. Bloom Taxonomys Cognitive Process: Understand, Evaluate, Apply.

Name
4.Students will identify historical arguments in a variety of sources and engage with critical topics in the historical study of Latino populations in the U.S., including gender, class, and sexuality, while also evaluating credibility, perspective, and relevance. Bloom Taxonomys Cognitive Process: Remember, Understand, Evaluate.

Name
5.Students will create well-supported historical arguments and narratives that demonstrate an awareness of genre and audience. Bloom Taxonomys Cognitive Process: Create, Apply.

Name
6.Students will apply historical knowledge and historical thinking in order to infer what drives and motivates the Latino experience in the U.S. in both past and present. Bloom Taxonomys Cognitive Process: Apply, Analyze.

HIST 1130G - World History I

General

Subject code	Course Number	Course Title
HIST	1130G	World History I

Description
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
Repeatable: up to 3 credits.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will be able to EXPLAIN in their work how humans in the past shaped their own unique historical moments and were shaped by those moments, and how those cultures changed over the course of the centuries for global history from ancient times to the 16th century. Bloom Taxonomys Cognitive Process: REMEMBER AND UNDERSTAND.

Name
2. Students will DISTINGUISH between primary and secondary sources, IDENTIFY and EVALUATE evidence and EMPATHIZE with people in their historical context. Bloom Taxonomys Cognitive Process: ANALYZE, REMEMBER, EVALUATE, CREATE.

Name
3. Students will SUMMARIZE and APPRAISE different historical interpretations and evidence in order to CONSTRUCT past events. Bloom Taxonomys Cognitive Process: UNDERSTAND, EVALUATE, APPLY.

Name
4. Students will IDENTIFY historical arguments in a variety of sources and EXPLAIN how they were constructed, EVALUATING credibility, perspective, and relevance. Bloom Taxonomys Cognitive Process: REMEMBER, UNDERSTAND, EVALUATE.

Name
5. Students will CREATE well-supported historical arguments and narratives that demonstrate an awareness of audience. Bloom Taxonomys Cognitive Process: CREATE, APPLY.

Name
6. Students will APPLY historical knowledge and historical thinking in order to infer what drives and motivates human behavior in both past and present. Bloom Taxonomys Cognitive Process: APPLY, ANALYZE 12.

Common Course Numbering Crosswalk

Past Course Numbers
HIST 111G

HIST 1140G - World History II

General

Subject code	Course Number	Course Title
HIST	1140G	World History II

Description
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.
Repeatable: up to 3 credits.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will be able to EXPLAIN in their work how humans in the past shaped their own unique historical moments and were shaped by those moments, and how those cultures changed over the course of the centuries for the history of global history from the 16th century to the present. Bloom Taxonomys Cognitive Process: REMEMBER AND UNDERSTAND .

Name
2. Students will DISTINGUISH between primary and secondary sources, IDENTIFY and EVALUATE evidence and EMPATHIZE with people in their historical context. Bloom Taxonomys Cognitive Process: ANALYZE, REMEMBER, EVALUATE, CREATE.

Name
3. Students will SUMMARIZE and APPRAISE different historical interpretations and evidence in order to CONSTRUCT past events. Bloom Taxonomys Cognitive Process: UNDERSTAND, EVALUATE, APPLY.

Name
4. Students will IDENTIFY historical arguments in a variety of sources and EXPLAIN how they were constructed, EVALUATING credibility, perspective, and relevance. Bloom Taxonomys Cognitive Process: REMEMBER, UNDERSTAND, EVALUATE.

Name
5. Students will CREATE well-supported historical arguments and narratives that demonstrate an awareness of audience. Bloom Taxonomys Cognitive Process: CREATE, APPLY.

Name
6. Students will APPLY historical knowledge and historical thinking in order to infer what drives and motivates human behavior in both past and present. Bloom Taxonomys Cognitive Process: APPLY, ANALYZE 13.

Common Course Numbering Crosswalk

Past Course Numbers
HIST 112G

HIST 1150G - Western Civilization I

General

Subject code	Course Number	Course Title
HIST	1150G	Western Civilization I

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will be able to EXPLAIN in their work how humans in the past shaped their own unique historical moments and were shaped by those moments, and how those cultures changed over the course of the centuries for the history of the western world from ancient times to the early modern era. Bloom Taxonomys Cognitive Process: REMEMBER AND UNDERSTAND .

Name
2. Students will DISTINGUISH between primary and secondary sources, IDENTIFY and EVALUATE evidence and EMPATHIZE with people in their historical context. Bloom Taxonomys Cognitive Process: ANALYZE, REMEMBER, EVALUATE, CREATE.

Name
3. Students will SUMMARIZE and APPRAISE different historical interpretations and evidence in order to CONSTRUCT past events. Bloom Taxonomys Cognitive Process: UNDERSTAND, EVALUATE, APPLY.

Name
4. Students will IDENTIFY historical arguments in a variety of sources and EXPLAIN how they were constructed, EVALUATING credibility, perspective, and relevance. Bloom Taxonomys Cognitive Process: REMEMBER, UNDERSTAND, EVALUATE.

Name
5. Students will CREATE well-supported historical arguments and narratives that demonstrate an awareness of audience. Bloom Taxonomys Cognitive Process: CREATE, APPLY.

Name
6. Students will APPLY historical knowledge and historical thinking in order to infer what drives and motivates human behavior in both past and present. Bloom Taxonomys Cognitive Process: APPLY, ANALYZE 14.

Common Course Numbering Crosswalk

Past Course Numbers
HIST 101G

HIST 1160G - Western Civilization II

General

Subject code	Course Number	Course Title
HIST	1160G	Western Civilization II

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will be able to EXPLAIN in their work how humans in the past shaped their own unique historical moments and were shaped by those moments, and how those cultures changed over the course of the centuries for the history of the western world from the early modern era to the present. Bloom Taxonomys Cognitive Process: REMEMBER AND UNDERSTAND.

Name
2. Students will DISTINGUISH between primary and secondary sources, IDENTIFY and EVALUATE evidence and EMPATHIZE with people in their historical context. Bloom Taxonomys Cognitive Process: ANALYZE, REMEMBER, EVALUATE, CREATE.

Name
3. Students will SUMMARIZE and APPRAISE different historical interpretations and evidence in order to CONSTRUCT past events. Bloom Taxonomys Cognitive Process: UNDERSTAND, EVALUATE, APPLY.

Name
4. Students will IDENTIFY historical arguments in a variety of sources and EXPLAIN how they were constructed, EVALUATING credibility, perspective, and relevance. Bloom Taxonomys Cognitive Process: REMEMBER, UNDERSTAND, EVALUATE.

Name
5. Students will CREATE well-supported historical arguments and narratives that demonstrate an awareness of audience. Bloom Taxonomys Cognitive Process: CREATE, APPLY.

Name
6. Students will APPLY historical knowledge and historical thinking in order to infer what drives and motivates human behavior in both past and present. Bloom Taxonomys Cognitive Process: APPLY, ANALYZE.

Common Course Numbering Crosswalk

Past Course Numbers
HIST 102G

HIST 1170 - Survey of Early Latin America

General

Subject code	Course Number	Course Title
HIST	1170	Survey of Early Latin America

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Students will be able to EXPLAIN in their work how humans in the past shaped their own unique historical moments and were shaped by those moments, and how those cultures changed over the course of the centuries for the history of Latin America from pre-Columbian times through independence. Bloom Taxonomys Cognitive Process: REMEMBER AND UNDERSTAND.

Name
2.Students will DISTINGUISH between primary and secondary sources, IDENTIFY and EVALUATE evidence and EMPATHIZE with people in their historical context. Bloom Taxonomys Cognitive Process: ANALYZE, REMEMBER, EVALUATE, CREATE.

Name
3.Students will SUMMARIZE and APPRAISE different historical interpretations and evidence in order to CONSTRUCT past events. Bloom Taxonomys Cognitive Process: UNDERSTAND, EVALUATE, APPLY.

Name
4.Students will IDENTIFY historical arguments in a variety of sources and EXPLAIN how they were constructed, EVALUATING credibility, perspective, and relevance. Bloom Taxonomys Cognitive Process: REMEMBER, UNDERSTAND, EVALUATE.

Name
5.Students will CREATE well-supported historical arguments and narratives that demonstrate an awareness of audience. Bloom Taxonomys Cognitive Process: CREATE, APPLY.

Name
6.Students will APPLY historical knowledge and historical thinking in order to infer what drives and motivates human behavior in both past and present. Bloom Taxonomys Cognitive Process: APPLY, ANALYZE 19.

HIST 1180 - Survey of Modern Latin America

General

Subject code	Course Number	Course Title
HIST	1180	Survey of Modern Latin America

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Students will be able to EXPLAIN in their work how humans in the past shaped their own unique historical moments and were shaped by those moments, and how those cultures changed over the course of the centuries for the history of Latin America from independence to the present. Bloom Taxonomys Cognitive Process: REMEMBER AND UNDERSTAND.

Name
2.Students will DISTINGUISH between primary and secondary sources, IDENTIFY and EVALUATE evidence and EMPATHIZE with people in their historical context. Bloom Taxonomys Cognitive Process: ANALYZE, REMEMBER, EVALUATE, CREATE.

Name
3.Students will SUMMARIZE and APPRAISE different historical interpretations and evidence in order to CONSTRUCT past events. Bloom Taxonomys Cognitive Process: UNDERSTAND, EVALUATE, APPLY.

Name
4.Students will IDENTIFY historical arguments in a variety of sources and EXPLAIN how they were constructed, EVALUATING credibility, perspective, and relevance. Bloom Taxonomys Cognitive Process: REMEMBER, UNDERSTAND, EVALUATE.

Name
5. Students will CREATE well-supported historical arguments and narratives that demonstrate an awareness of audience. Bloom Taxonomys Cognitive Process: CREATE, APPLY.

Name
6. Students will APPLY historical knowledge and historical thinking in order to infer what drives and motivates human behavior in both past and present. Bloom Taxonomys Cognitive Process: APPLY, ANALYZE 20.

HIST 2110 - Survey of New Mexico History

General

Subject code	Course Number	Course Title
HIST	2110	Survey of New Mexico History

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Students will be able to EXPLAIN in their work how humans in the past shaped their own unique historical moments and were shaped by those moments, and how those cultures changed over the course of the centuries for the history of New Mexico from pre-Columbian times to the present day. Bloom Taxonomys Cognitive Process: REMEMBER AND UNDERSTAND.

Name
2.Students will DISTINGUISH between primary and secondary sources, IDENTIFY and EVALUATE evidence and EMPATHIZE with people in their historical context. Bloom Taxonomys Cognitive Process: ANALYZE, REMEMBER, EVALUATE, CREATE.

Name
3.Students will SUMMARIZE and APPRAISE different historical interpretations and evidence in order to CONSTRUCT past events. Bloom Taxonomys Cognitive Process: UNDERSTAND, EVALUATE, APPLY.

Name
4.Students will IDENTIFY historical arguments in a variety of sources and EXPLAIN how they were constructed, EVALUATING credibility, perspective, and relevance. Bloom Taxonomys Cognitive Process: REMEMBER, UNDERSTAND, EVALUATE.

Name
5.Students will CREATE well-supported historical arguments and narratives that demonstrate an awareness of audience. Bloom Taxonomys Cognitive Process: CREATE, APPLY.

Name
6.Students will APPLY historical knowledge and historical thinking in order to infer what drives and motivates human behavior in both past and present. Bloom Taxonomys Cognitive Process: APPLY, ANALYZE 16.

Common Course Numbering Crosswalk

Past Course Numbers
HIST 261

HIST 2245G - Islamic Civilizations to 1800

General

Subject code	Course Number	Course Title
HIST	2245G	Islamic Civilizations to 1800

Description
History of Islamic civilizations to 1800.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. By the conclusion of the course, the student will be able to demonstrate a knowledge of the history of cultural encounters, exchanges, and conflicts between the Islamic world and the West from the seventh to the sixteenth century.

Name
2. Be able to evaluate the major themes of cultural contact, conflict, and interchange between the Islamic world and the West.

Name
3. Critically read and evaluate historical evidence with the goal of forming an argument about historical evidence; and

Name
4. Communicate a historical argument logically, clearly, and effectively in writing.

Common Course Numbering Crosswalk

Past Course Numbers
HIST 221G

HIST 2246G - Islamic Civilizations since 1800

General

Subject code	Course Number	Course Title
HIST	2246G	Islamic Civilizations since 1800

Description
History of Islamic civilizations since 1800.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. By the conclusion of the course, the student will be able to demonstrate a knowledge of the history of cultural encounters, exchanges, and conflicts between the Islamic world and the West from the sixteenth century.

Name
2. Be able to evaluate the major themes of cultural contact, conflict, and interchange between the Islamic world and the West.

Name
3. Critically read and evaluate historical evidence with the goal of forming an argument about historical evidence; and

Name
4. Communicate a historical argument logically, clearly, and effectively in writing.

Common Course Numbering Crosswalk

Past Course Numbers
HIST 222G

HIST 2250G - East Asia to 1600

General

Subject code	Course Number	Course Title
HIST	2250G	East Asia to 1600

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will learn the analytic skills of interpreting historical changes and continuity.

Name
2. They will assess and use historical documents and learn how to evaluate varying historical interpretations.

Name
3. Students will understand the chronological and geographic context of important historical events, and will understand the social, technological, economic, cultural and political components of the society under study in this course.

Name
4. Students will understand how people shape their culture and its beliefs, and the way in which prevailing cultures and beliefs shape them.

Name
5. They will understand the historical origins of present-day societies, to learn about their own historical roots.

Name
6. They will learn about the development of structures of power, the production of and distribution of goods, and the relationship between science and technology and human values and behavior.

Common Course Numbering Crosswalk

Past Course Numbers
HIST 211G

HIST 2251G - East Asia since 1600

General

Subject code	Course Number	Course Title
HIST	2251G	East Asia since 1600

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will learn the analytical skills of interpreting historical changes and continuity.

Name
2. They will assess and use historical documents and learn how to evaluate varying historical interpretations.

Name
3. Students will understand the chronological and geographic context of important historical events, and will understand the social, technological, economic, cultural and political components of the society under study in this course.

Name
4. Students will understand how people shape their culture and its beliefs, and the way in which prevailing cultures and beliefs shape them.

Name
5. They will understand the historical origins of present-day societies, to learn about their own historical roots.

Name
6. They will learn about the development of structures of power, the production of and distribution of goods, and the relationship between science and technology and human values and behavior.

Common Course Numbering Crosswalk

Past Course Numbers
HIST 212G

HIST 2996 - Topics in History

General

Subject code	Course Number	Course Title
HIST	2996	Topics in History

Description
Specific subjects to be announced in the Schedule of Classes.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
HIST 269

HIT 110 - Electronic Health Records

General

Subject code	Course Number	Course Title
HIT	110	Electronic Health Records

Description
Current electronic health record principles, methods and procedures, and computerized medical record concepts and software applications will be introduced.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

HIT 120 - Health Information Introduction to Pharmacology

General

Subject code	Course Number	Course Title
HIT	120	Health Information Introduction to Pharmacology

Description
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.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Summarize major drug standard and legislation requiring legal responsibilities of the health care practitioner when dispensing medications.

Name
2. Describe the major drug classification systems.

Name
3. Analyze the sources of drugs and their pharmacokinetic processes and variables that affect drug action and effects.

Name
4. Identify drug forms, routes of delivery, and the supplies and techniques necessary for safe and appropriate administration.

Name
5. Apply the principals that support the moral, ethical, and legal responsibilities of the health care practitioner when administering medications safely and accurately.

Name
6. Assess the four parenteral routes, application of each and specific injection types and sites.

Name
7. Identify precautions that should be taken when administering medications and various demographics, and in particular, for older adults.

Name
8. Identify the primary routes of poisoning and the procedures, therapies and preventive measures involved in patient care and education.

Name
9. Identify commonly used medications.

Name
10. Outline the sources, mechanism of action, and indications for specific drug therapies.

Name
11. List the appropriate dosages for several drugs.

Name
12. Describe the side effects, precautions, contraindications, and interactions for specific medications.

Name
13. Identify recent actions taken by government and by manufacturers for specific drugs.

HIT 140 - Health Information Introduction to Pathophysiology

General

Subject code	Course Number	Course Title
HIT	140	Health Information Introduction to Pathophysiology

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Describe basic disease concepts, including mechanisms of disease, neoplasms, inflammation, and infection.

Name
2. Examine the basic anatomy and physiology of the body systems, etiology of various diseases and conditions, important signs and symptoms of disorders, common diagnostics, typical course and management of disorders, preventive measures, and the effects of aging.

Name
3. Identify the terminology, etiology, signs and symptoms, common diagnostics, typical course and management of disorders, and preventive measures associated with genetic and developmental disorders, childhood diseases, and mental health disorders.

Name
4. Recognize important medical terminology related to the understanding of human diseases.

Name
5. State the drug classifications and examples of medications in each class used to treat diseases, disorders and conditions related to each body system.

HIT 150 - Introduction to Medical Terminology

General

Subject code	Course Number	Course Title
HIT	150	Introduction to Medical Terminology

Description
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.
Repeatable: up to 3 credits.
Crosslist: NURS 150.

General Education Course
Technical

Learning Outcomes

Name
1. Effective communication skills in reading, writing, listening and speaking.

Name
2. Basic critical thinking skills include problem identification, evidence acquisition, evidence evaluation, and reasoning/conclusion.

Name
3. An understanding of personal and social responsibility.

Name
4. Apply the fundamental concepts of quantitative reasoning in mathematics and science.

Name
5. Appropriate information and digital literacy and skills for personal and professional use.

HIT 158 - Advanced Medical Terminology

General

Subject code	Course Number	Course Title
HIT	158	Advanced Medical Terminology

Description
Builds upon the concepts covered in HIT 150 or NURS 150 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.

General Education Course
Technical

Learning Outcomes

Name
1. Provide the student with an advanced knowledge and understanding of medical terms.

Name
2. Prepare the advanced student for a career in the healthcare field.

Name
3. State the derivation of most healthcare terms.

Name
4. Use the rules given to build and spell healthcare terms and build singular terms to their plural forms.

Name
5. Recognize and recall an introductory word bank of prefixes, suffixes, and combining forms and their respective meanings.

Name
6. Recognize and use terms associated with the organization of the body, positional and directional vocabulary, body.

Name
7. Recognize and use terms related to the anatomy, physiology, pathology and procedures for: the musculoskeletal system, integumentary system, digestive system, genitourinary system, pregnancy, childbirth, immune system, circulatory system, respiratory system, nervous system, mental health, eyes, ears, and endocrine system.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in HIT150 Introduction to Medical Terminology or NURS150 Medical Terminology

HIT 221 - Internship I

General

Subject code	Course Number	Course Title
HIT	221	Internship I

Description
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. Restricted to: HIT majors.

General Education Course
Technical

Learning Outcomes

Name
1. Recognize a variety of roles and settings, including administrative, clinical, and billing and coding activities in private practice, hospitals and health networks, and Patient Centered Medical Home environments.

Name
2. Apply the functions of the Harris CareTracker system step by step, using engaging activities, useful FAQs, time-saving tips, annotated screen shots, chapter review questions, and more to make key concepts easier to understand and apply.

Name
3. Incorporate the features, functions, and workflows of administrative, practice management, clinical, and billing activities using a live electronic medical record (EMR) program.

Name
4. Produce front office tasks such as appointment scheduling, creating and maintaining a patient medical record, preauthorization, patient registration, and report generation.

Name
5. Select and categorize CPT, ICD-10, and HCPCS codes to office visits and surgeries, and interpret medical documentation to code for multiple specialties.

Name
6. Compile and classify complete and accurate data for insurance claim reimbursement for private, commercial, and government payers.

Name
7. Devise pre-bill claim reviews and appeal insurance denials following carrier-specific processes.

HIT 228 - Medical Insurance Billing

General

Subject code	Course Number	Course Title
HIT	228	Medical Insurance Billing

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Identify roles and responsibilities of the medical insurance billing specialist.

Name
2. Demonstrate an understand the requirements of different insurance carriers: HMOs, Medicare, Medicaid, Government, and State.

Name
3. Apply the procedure codes (CPT) to diagnostic codes (ICD-9) and generate claims for billing purposes; and

Name
4. Complete the procedure of processing of insurance claims electronically and manually.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in HIT150 Introduction to Medical Terminology, NURS150 Medical Terminology, OATS150 Medical Terminology and OATS208 Medical Office Procedures

HIT 240 - Health Information Quality Management

General

Subject code	Course Number	Course Title
HIT	240	Health Information Quality Management

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Introduce the beginning student to the responsibilities in medical facilities and encourage the development of leadership skills for success.

Name
2. Expose the student to compliance in healthcare, creation of policies and procedures, medical records, and fundamentals of the Human Resource Department.

Name
3. Discuss the different employees and their requirements for licensure and registration along with employment qualifications for both clinical and administrative staff in the health care facility.

Name
4. Explain the role of the human services department in hiring new medical personnel, interviewing and screening potential employees, arranging follow up interviews with appropriate departments, administering background checks, managing benefits, and educating new hires about the rules and regulations of the health care facility.

Name
5. Discuss how the revenue cycle is essential to the financial success of a health care facility.

Name
6. Describe how medical records are vital to all health care settings and the role of management in this process.

Name
7. Explain the purpose and procedure of audits in the health care setting.

Name
8. Describe the role of regulatory agencies in the health care setting and the importance of compliance.

Name
9. Discuss how the health care facility depends on advertising and marketing.

Name
10. Discuss the role of the compliance officer and the components of an effective compliance program.

Name
11. Explain the legal and ethical considerations associated with health care compliance.

Name
12. Describe each step of compliance including patient consent, documentation, reporting, creating policies and procedures, education and training, internal and external audits and how to keep the program current.

Name
13. Explain ways to deal with enforcement of compliance and ways to deal with non-compliance.

HIT 248 - Medical Coding I

General

Subject code	Course Number	Course Title
HIT	248	Medical Coding I

Description
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. Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Introduce the health student to the skills necessary to assist healthcare professionals in the health medical office and/or facility.

Name
2. Provide the health professional skills and techniques necessary to assist in the healthcare setting.

Name
3. Discuss and demonstrate the professional and career responsibilities of an administrative medical assistant.

Name
4. Communicate effectively as a receptionist in the medical office environment.

Name
5. Demonstrate appropriate and effective records management including proper filing procedures, handling medical records and drug and prescription records.

Name
6. Demonstrate proper financial administration including fees, credit and collection; bookkeeping; understanding of health insurance systems and claim submission; and procedural and diagnostic coding.

Name
7. Demonstrate the ability to properly manage a health care office and perform relevant office managerial responsibilities.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in OATS228 Medical Insurance Billing

HIT 255 - Special Topics

General

Subject code	Course Number	Course Title
HIT	255	Special Topics

Description
Specific topics to be announced in the Schedule of Classes.
Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

HIT 258 - Medical Coding II

General

Subject code	Course Number	Course Title
HIT	258	Medical Coding II

Description
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.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Provide comprehensive overview of the coding and reporting guidelines; and

Name
2. Expose the continuing student to fundamentals and coding conventions.

Name
3. Identify and differentiate principles of selecting the most appropriate CPT and HCPCS procedural codes for all medical specialties.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in HIT248 Medical Coding I

HIT 268 - Health Information System

General

Subject code
HIT

Course Number
268

Course Title
Health Information System

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Introduce the student to the health information technology and ensuing professional standards necessary to perform task as assigned.

Name
2. Provide students with the skills for an applied approach to health information.

Name
3. Discuss healthcare data management including: the health record, healthcare data sets and standards, use clinical vocabularies and classification systems, reimbursement methodologies, and health information functions.

Name
4. Explain the importance of health statistics, biomedical research and quality management in health information management technology.

Name
5. Discuss the different types of health services organizations and delivery along with the legal and ethical issues involved in health information management.

Name
6. Define the different types of information technology and systems along with information security.

Name
7. Discuss the principles of organization and work planning.

HITP 1XXX - Health Information Technology Course

General

Subject code
HITP

Course Number
1XXX

Course Title
Health Information Technology Course

Description
Course to build subject code in Coursedog

HLED 1XXX - HLED Course to upload subject to Coursedog

General

Subject code
HLED

Course Number
1XXX

Course Title
HLED Course to upload subject to Coursedog

HLSC 1XXX - Health Science New Subject Course code for Coursedog

General

Subject code
HLSC

Course Number
1XXX

Course Title
Health Science New Subject Course code for Coursedog

Description
Coursedog Subject course creation

HMSV 2110 - Case Management

General

Subject code
HMSV

Course Number
2110

Course Title
Case Management

Description
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. Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Define the purpose of case management and explain the role of the case manager.

Name
2.Explain the process of case management and what it entails.

Name
3.Explain the ethical, professional and legal responsibilities of case managers.

Name
4.Describe several settings within which case management takes place.

Name
5.Apply principles of client record management, and protect client rights to privacy and confidentiality.

Name
6.Use data to determine the appropriate referral service to professional, agencies, community programs or other resource, and clearly and specifically explain the referral services role in treatment and contact information.

Name
7.Apply standards of clinical evaluation, including establishing rapport, data gathering and screening, analysis of substance abuse implications, treatment possibilities, initial actions, and documentation of findings and treatment recommendations.

Name
8.Incorporate individual and cultural relevance in concert with established situation-specific policies and procedures for crisis management.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PSYC1110G Introduction to Psychology and SOWK2110G Introduction to Human Services and Social Work

Common Course Numbering Crosswalk

Past Course Numbers
S WK 253

HNRS 1110 - Journeys of Discovery

General

Subject code	Course Number	Course Title
HNRS	1110	Journeys of Discovery

Description
Weekly conversations among students and a faculty member; organized around a particular subject and a small selection of readings.

General Education Course
Academic

Learning Outcomes

Name
1.Students will comprehend and condense information to contribute to class discussions.

Name
2.Students will develop public speaking and presentation skills based on research conducted in and outside of class.

Name
3.Students will expand upon collaborative skills as both group presentations and group written reports.

Common Course Numbering Crosswalk

Past Course Numbers
HON 115

HNRS 1115 - Honors First Year Seminar

General

Subject code	Course Number	Course Title
HNRS	1115	Honors First Year Seminar

Description
This course is designed to introduce new first semester students to the life of the mind, the life of the University, and the principles that guide the University Honors Program. Combining critical thinking and experiential exploration, students will develop a personalized plan for success, both in and out of the classroom, consistent with the values of the Honors College and the mission of the University.

General Education Course
Academic

Learning Outcomes

Name
1.Demonstrate critical thought about the nature of knowledge, learning, and student development in the contemporary University.

Name
2.Explain how key concepts and principles serve as the foundation for the Honors College mission and values.

Name
3.Create a plan for their experiences at university, in and out of the classroom, that will maximize their academic achievement and personal success beyond graduation.

HNRS 1135G - Introduction to Biological Anthropology

General

Subject code	Course Number	Course Title
HNRS	1135G	Introduction to Biological Anthropology

Description
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.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Summarize the basic principles of evolution and recognize how they apply to the human species.

Name
2. Recognize the biological and behavioral continuity of humans with all life, and especially other modern primate species.

Name
3. Identify ways in which the human species is biologically and behaviorally unique.

Name
4. Summarize fossil evidence for human evolution.

Name
5. Distinguish the major Paleolithic industries and outline the behavioral and cognitive changes indicated by the fossil and archeological evidence.

Name
6. Critically evaluate popular accounts of human variation and human evolution.

Name
7. Interpret modern human dilemmas (e.g., overpopulation, co-evolution of disease, and genetic engineering) from an evolutionary perspective.

Name
8. Discuss in class and analyze in writing scholarly arguments concerning course concepts.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** HNRS1135L Introduction to Biological Anthropology Lab
- **Prerequisite(s):** ACT Composite score of 24 or higher

HNRS 1135L - Introduction to Biological Anthropology Lab

General

Subject code	Course Number	Course Title
HNRS	1135L	Introduction to Biological Anthropology Lab

Description
This laboratory course expands 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.

General Education Course
Academic

Learning Outcomes

Name
1.Demonstrate an understanding of the scientific method.

Name
2.Employ principles of Mendelian genetics to determine genotype and phenotype probabilities, and calculate gene, genotype, and phenotype frequencies using the Hardy-Weinberg Equilibrium formula.

Name
3.Demonstrate an understanding of cell structure and functions.

Name
4.Use common lab and anthropometric equipment such as a compound microscope and calipers.

Name
5.Discuss primate evolution and compare and contrast members of the Primate order in terms of structure, behavior, and phylogeny.

Name
6.Classify hominid species based upon selected traits such as anatomical changes associated with bipedalism, changes in the size and structure of the brain, and the development of culture.

Name
7.Locate and describe the major bones of the human skeleton and identify characteristics of human skeletons or skulls such as gender, age, and ancestry.

Name
8.Discuss current research in genome analysis of various hominid populations.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** HNRS1135G Introduction to Biological Anthropology
- **Prerequisite(s):** ACT Composite score of 24 or higher

HNRS 2110G - The Present in the Past: Contemporary Issues and their Historical Roots

General

Subject code	Course Number	Course Title
HNRS	2110G	The Present in the Past: Contemporary Issues and their Historical Roots

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Analyze and critically interpret primary sources and understand how others might interpret and use the same material in different ways.

Name
2. Recognize and articulate the diversity of human experience across a range of historical periods and/or cultural perspectives.

Name
3. Understand how historical experiences and memories have shaped contemporary societies.

Name
4. Identify and understand the degree to which history has been used and misused in the past.

Name
5. Draw on historical and/or cultural perspectives to evaluate any or all of the following: contemporary problems/issues, contemporary modes of expression, and contemporary thought.

Name
6. Demonstrate improvement in their ability to read critically, think logically, and express themselves clearly in writing.

Common Course Numbering Crosswalk

Past Course Numbers
HON 210

HNRS 2111 - Successful Fellowship Writing

General

Subject code	Course Number	Course Title
HNRS	2111	Successful Fellowship Writing

Description
Same as HON 314, for freshmen and sophomores.

General Education Course
Academic

Learning Outcomes

Name
1.Review of Prestigious International and National scholarships.

Name
2.Best practices in preparing competitive proposals and applications.

Name
3.Effective strategies for writing compelling Executive summaries, Resumes, and Personal Statements.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT Composite score of 24 or higher

Common Course Numbering Crosswalk

Past Course Numbers
HON 214

HNRS 2114G - Music in Time and Space

General

Subject code	Course Number	Course Title
HNRS	2114G	Music in Time and Space

Description
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.

General Education Course
Area VI, Academic

Learning Outcomes

Name
1. Analyze and critically interpret significant primary texts and/or works of art (this includes fine art, literature, music, theatre, and film).

Name
2. Compare art forms, modes of thought and expression, and processes across a range of historical periods and/or structures (such as political, geographic, social, cultural, religious, intellectual).

Name
3. Recognize and articulate the diversity of human experience across a range of historical periods and/or cultural perspectives.

Name
4. Draw on historical and/or cultural perspectives to evaluate all of the following: contemporary problems/issues, contemporary modes of expression, and contemporary thought.

Common Course Numbering Crosswalk

Past Course Numbers
HON 208G

HNRS 2115G - Encounters with Art

General

Subject code	Course Number	Course Title
HNRS	2115G	Encounters with Art

Description
A multicultural examination of the principles and philosophies of the visual arts and the ideas expressed through them.

General Education Course
Area VI, Academic

Learning Outcomes

Name
1. Articulate the relationship of art to the human experience.

Name
2. Apply the vocabulary of art to critical writings and discussions.

Name
3. Interpret art works within cultural, social, personal and historical contexts.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT Composite score of 24 or higher

Common Course Numbering Crosswalk

Past Course Numbers
HON 216G

HNRS 2116G - Earth, Time and Life

General

Subject code	Course Number	Course Title
HNRS	2116G	Earth, Time and Life

Description
Historical and critical examination of women's contributions worldwide with emphasis on the issues of representation that have contributed to exclusion and marginalization of women and their achievements.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Gain a general understanding of geology and the geological processes that have been occurring throughout Earth's history.

Name
2. Learn about some of the common minerals and rocks that are the building blocks to geology and the rock cycle.

Name
3. Investigate the processes associated with each rock type (e.g., volcanoes, faults, depositional processes, etc.) and as well as potential geologic hazards (e.g., volcanic eruptions, earthquakes, flooding, etc.).

Name
4. Recognize and identify common minerals and rocks and understand the basic processes and conditions responsible for their formation and occurrence.

Name
5. Comprehensively understand how the internal and external parts of the Earth have functioned throughout geologic time.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT Composite score of 24 or higher

Common Course Numbering Crosswalk

Past Course Numbers
HON 219G

HNRS 2117G - The World of the Renaissance: Discovering the Modern

General

Subject code	Course Number	Course Title
HNRS	2117G	The World of the Renaissance: Discovering the Modern

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Analyze and critically interpret significant primary texts and/or works of fine art, literature, philosophy, and theatre from the early modem period.

Name
2. Locate art forms, modes of thought and expression, and processes from the early modem period in historical and/or cultural context and compare them to those of other time periods.

Name
3. Demonstrate an understanding of how early modem historical and/or cultural perspectives and key technological developments contributed to the development of contemporary thought and modes of expression.

Name
4. Recognize and articulate the diversity of human experience across historical periods and/or cultural perspectives.

Name
5. Demonstrate skill in working with relevant secondary resources and research tools to develop a class.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT Composite score of 24 or higher

Common Course Numbering Crosswalk

Past Course Numbers
HON 220G

HNRS 2120G - Foundations of Western Culture

General

Subject code	Course Number	Course Title
HNRS	2120G	Foundations of Western Culture

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will enhance abilities to quickly read, comprehend, and evaluate lengthy, complex texts to extract their fundamental arguments.

Name
2. Students will improve critical thinking by grappling with ethical issues about the rights of individuals versus societies.

Name
3. Students will use historical analysis to contextualize current social, political, geographic, and economic issues and how the foundations continue to affect contemporary society.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT Composite score of 24 or higher

Common Course Numbering Crosswalk

Past Course Numbers
HON 222G

HNRS 2130G - Shakespeare on Film

General

Subject code	Course Number	Course Title
HNRS	2130G	Shakespeare on Film

Description
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.

General Education Course
Area VI, Academic

Learning Outcomes

Name
1. Students will enhance written communication through preparation of papers that synthesize primary and secondary source material.

Name
2. Students will critically evaluate works of fiction to identify common themes, archetypes, and expressions of culturally contextualized morals. Students will improve oral communication and discussion skills as they collectively dissect course material.

HNRS 2140G - Plato and the Discovery of Philosophy

General

Subject code	Course Number	Course Title
HNRS	2140G	Plato and the Discovery of Philosophy

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will evaluate a number of Platos dialogues to understand his doctrines and arguments.

Name
2. Students will use their understanding to further evaluate why his philosophies have remained influential in modern, Western society and beyond.

Name
3. Students will develop well-formulated, compelling arguments from philosophical texts.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT Composite score of 24 or higher

Common Course Numbering Crosswalk

Past Course Numbers
HON 227G

HNRS 2141G - Bamboo and Silk: The Fabric of Chinese Literature

General

Subject code	Course Number	Course Title
HNRS	2141G	Bamboo and Silk: The Fabric of Chinese Literature

Description
Introductory survey of traditional and modern Chinese prose and poetry in translation with emphasis on genre, theme, and social/historical context.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will acquire extensive knowledge of one of the world's oldest and richest literary traditions.

Name
2. Not incidentally, students will also gain knowledge of China's history and philosophical traditions.

Name
3. As this class is based on reading, writing, and discussion, students will hone their interpretive and expressive skills.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT Composite score of 24 or higher

Common Course Numbering Crosswalk

Past Course Numbers
HON 230G

HNRS 2145G - Celtic Literature

General

Subject code	Course Number	Course Title
HNRS	2145G	Celtic Literature

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will enhance written communication through preparation of papers that synthesize primary and secondary source material.

Name
2. Students will critically evaluate works of fiction to identify common themes, archetypes, and expressions of culturally contextualized morals.

Name
3. Students will improve oral communication and discussion skills as they collectively dissect course material and participate in class discussions.

HNRS 2160G - New Testament as Literature

General

Subject code	Course Number	Course Title
HNRS	2160G	New Testament as Literature

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will hone critical thinking skills by analyzing arguments and controversies surrounding the roots of Christianity.

Name
2. Students will discern and discuss the viability of both literary and historical sources with debated authorship, dating, and interdependency.

Name
3. Students will practice interpersonal navigation and maintaining an academic environment of respect as they discuss a number of topics that can be considered controversial or subjective.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT Composite score of 24 or higher

Common Course Numbering Crosswalk

Past Course Numbers
HON 229G

HNRS 2161G - Window of Humanity

General

Subject code	Course Number	Course Title
HNRS	2161G	Window of Humanity

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Explain the concepts that define Anthropology (along with its subfields) as a specific research discipline.

Name
2. Possess a growing vocabulary for anthropology, cultural study, ethnographic research and writing that will empower them as they continue with their degrees and professional careers.

Name
3. Recognize how Anthropological concepts, terms, and methods are valuable for present-day concerns and how these tools can be used to engage life and the world at large.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT Composite score of 24 or higher

Common Course Numbering Crosswalk

Past Course Numbers
HON 235G

HNRS 2165G - Humanities in the 21st Century

General

Subject code	Course Number	Course Title
HNRS	2165G	Humanities in the 21st Century

Description
An exploration of the humanities, of their intrinsic and extrinsic values, and of the skills and habits of mind they cultivate.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Articulate what the humanities are and what role they have played in education throughout the ages.

Name
2. Articulate examples of the intrinsic value of the humanities.

Name
3. Articulate the skills and habits of thought in at least one chosen discipline in the humanities.

Name
4. Articulate common misconceptions about university majors and reframe the common misconceptions.

Name
5. Create at least three employment scenarios based on your skills and interests.

Name
6. Exercise divergent thinking with regards to future career paths.

HNRS 2170G - The Human Mind

General

Subject code	Course Number	Course Title
HNRS	2170G	The Human Mind

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Enhance written and oral communication.

Name
2. Stimulate critical thinking and learn to weigh scientific evidence.

Name
3. Challenge students to make ethical decisions and promote personal and social responsibility.

Common Course Numbering Crosswalk

Past Course Numbers
HON 232G

HNRS 2171G - The Worlds of Arthur

General

Subject code
HNRS

Course Number
2171G

Course Title
The Worlds of Arthur

Description
Arthurian texts and traditions from medieval chronicle histories to modern novels. Emphasis on both the continuities of the Arthurian tradition and the diversity of genres, media, and cultures that have given expression to the legend.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will examine how texts and narratives, even with fictional implications, still held psychological, social, cultural, and religious sway within developed societies throughout history.

Name
2. Students will synthesize information from an array of both primary and secondary sources to measure the cultural significance King Arthur holds in contemporary societies.

Name
3. Students will extrapolate how a societys values at any point in history will affect the transference of mythos, just as a myth transmits the values of that society.

Common Course Numbering Crosswalk

Past Course Numbers
HON 234G

HNRS 2172G - Archaeology: Search for the Past

General

Subject code
HNRS

Course Number
2172G

Course Title
Archaeology: Search for the Past

Description
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.
Repeatable: up to 3 credits.
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 cumulative GPA of 3.5 or higher.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Identify, describe, and explain how human lifeways changed in diverse communities in different parts of the globe.

Name
2. Select and use relevant archaeological evidence to articulate how people's beliefs and values were influenced by politics, geography, economics, culture, biology, history, and social institutions in the past.

Name
3. Analyze the significance of archaeological artifacts in context and explain their relevance to understanding relations among individuals, their society, and the environment.

Name
4. Evaluate how practices in research, conservation, and tourism to archaeological sites promote ethical stewardship of non-renewable archaeological resources.

Name
5. Design a study tour to archaeological sites that will address a key question or argument in prehistory and promote historic/ archaeological preservation.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT Composite score of 24 or higher

Common Course Numbering Crosswalk

Past Course Numbers
HON 237G

HNRS 2173G - Medieval Understandings: Literature and Culture in the Middle Ages

General

Subject code
HNRS

Course Number
2173G

Course Title
Medieval Understandings: Literature and Culture in the Middle Ages

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will hone critical reading skills as they read through a wealth of texts, by prioritizing attention to details and how it affects the overall narrative.

Name
2. Students will recognize how the social, religious, and political environments of the medieval era shaped contemporary society in affected regions beyond Europe.

Name
3. Students will employ comparative analysis skills as they examine how Islamic culture might have influenced poetry and music in medieval Europe.

Common Course Numbering Crosswalk

Past Course Numbers
HON 239G

HNRS 2175G - Principles of Human Communication Honors

General

Subject code
HNRS

Course Number
2175G

Course Title
Principles of Human Communication Honors

Description
Study and practice of interpersonal, small group, and presentational skills essential to effective social, business, and professional interaction.

General Education Course
Area I, Academic

Learning Outcomes

Name
1. Analyze and evaluate oral and written communication in terms of situation, audience, purpose, aesthetics, and diverse points of view.

Name
2. Express a primary purpose in a compelling statement and order supporting points logically and convincingly.

Name
3. Use effective rhetorical strategies to persuade, inform and engage.

Name
4. Employ writing and/or speaking processes such as planning, collaborating, organizing, composing, revising & editing to create presentations using correct diction, syntax, grammar and mechanics.

Name
5. Integrate research correctly and ethically from credible sources to support the primary purpose of a communication.

Name
6. Engage in reasoned civil discourse while recognizing the distinctions among opinions, facts, and inferences.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT Composite score of 24 or higher

Common Course Numbering Crosswalk

Past Course Numbers
HON 265G

HNRS 2176 - Acting for Everyone

General

Subject code
HNRS

Course Number
2176

Course Title
Acting for Everyone

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Improve effectiveness of oral communication.

Name
2.Enhance creativity and appreciation of theatre.

Name
3.Build confidence and expressiveness.

HNRS 2178G - Theatre: Beginnings to Broadway

General

Subject code	Course Number	Course Title
HNRS	2178G	Theatre: Beginnings to Broadway

Description
Intercultural and historical overview of live theatre production and performance, including history, literature and professionals. Students attend and report on stage productions.

General Education Course
Area VI, Academic

Learning Outcomes

Name
1. Distinguish and differentiate the characteristics of theatre from other art forms.

Name
2. Describe the major components of a theatrical event.

Name
3. Describe the functions of various theatre personnel.

Name
4. Define specific terms relating to the study of theatre.

Name
5. List and describe the parts of a play.

Name
6. Define the different parts of plot.

Name
7. Critique plays.

Name
8. Describe the characteristics of theatre in the different periods of history.

Name
9. Develop an appreciation for theatre as an art form and a reflection of society.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT Composite score of 24 or higher

Common Course Numbering Crosswalk

Past Course Numbers
HON 270G

HNRS 2180G - Citizen and State Great Political Issues

General

Subject code	Course Number	Course Title
HNRS	2180G	Citizen and State Great Political Issues

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Students will investigate the fluid state of American politics by discerning the decisions and policies of a selection of presidents.

Name
2. Students will investigate the complex operations behind a representative democracy.

Name
3. Students will examine how the sociopolitical environment surrounding a president influences his policies, and how a presidents policies affect the broader society.

Name
4. Students will assess and measure how politics can be affected by active and engaged citizens.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT Composite score of 24 or higher

Common Course Numbering Crosswalk

Past Course Numbers
HON 248G

HNRS 2185G - Democracies, Despots and Daily Life

General

Subject code	Course Number	Course Title
HNRS	2185G	Democracies, Despots and Daily Life

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Analyze and critically interpret primary sources and understand how others might interpret and use the same material in different ways.

Name
2. Recognize and articulate the diversity of human experience across a range of historical periods and/or cultural perspectives.

Name
3. Understand how historical experiences and memories have shaped contemporary societies.

Name
4. Identify and understand the degree to which history has been used and misused in the past.

Name
5. Draw on historical and/or cultural perspectives to evaluate any or all of the following: contemporary problems/issues, contemporary modes of expression, and contemporary thought.

Name
6. Demonstrate improvement in their ability to read critically, think logically, and express themselves clearly in writing.

Common Course Numbering Crosswalk

Past Course Numbers
HON 211

HNRS 2190G - Claiming a Multiracial Past

General

Subject code	Course Number	Course Title
HNRS	2190G	Claiming a Multiracial Past

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will contextualize the current state of American being by focusing on the multicultural-social and cultural history of the U.S. in the nineteenth and twentieth centuries.

Name
2. Students will hone public speaking and presentation skills through classroom discussions and activities.

Name
3. Students will practice interpersonal navigation and maintaining an academic environment of respect as they discuss a number of topics that can be considered controversial or subjective.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): ACT Composite score of 24 or higher

Common Course Numbering Crosswalk

Past Course Numbers
HON 242G

HNRS 2996 - Topics in Honors

General

Subject code	Course Number	Course Title
HNRS	2996	Topics in Honors

Description
Special topics are offered occasionally, and the selection is different every semester. Special Topic courses do not repeat material presented by regular semester courses. The purpose of special topics is to provide students with new, one-time, and developing information in accounting.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
HON 221

HORT 1110 - Introduction to Horticulture

General

Subject code	Course Number	Course Title
HORT	1110	Introduction to Horticulture

Description
An introduction to principles and practices of horticulture as a science and its practical applications. Includes an introduction to plant anatomy, classification and identification, physiology, genetics, and propagation as they apply to horticulture.

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate an understanding of basic plant biology concepts in plant morphology, anatomy, taxonomy, physiology, reproduction, and genetics.

Name
2.Recognize plant responses to biotic and abiotic environmental conditions.

Name
3.Students will facilitate plant growth, solve problems, and demonstrate principles revealed with hormone, propagation, nutrition, water, and soil modification.

Name
4.Understand and apply general horticulture principles and practices.

Name
5.Understand career opportunities in horticulture.

HORT 1115 - Introductory Plant Science

General

Subject code	Course Number	Course Title
HORT	1115	Introductory Plant Science

Description
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 100G
Provides lab.

General Education Course
Technical

Learning Outcomes

Name
1. Describe the role plants play in everyday lives.

Name
2. Introduce career opportunities in plant and soil sciences, and related fields.

Name
3. Define plants through the concepts of plant structure and anatomy.

Name
4. Introduce the wide variety of plants cultivated throughout the world.

Name
5. Describe how plants work (growth, reproduction, physiology, and soil).

Name
6. Describe how plants are manipulated to feed, clothe and entertain the world.

HORT 2110 - Ornamental Plants I

General

Subject code	Course Number	Course Title
HORT	2110	Ornamental Plants I

Description
This covers identification, botanical characteristics, culture, and landscape uses of woody plants. Emphasis will be on deciduous trees, native shrubs, and evergreens. (2+3P)

General Education Course
Technical

Learning Outcomes

Name
1. Identify landscape plants by scientific names, including family, genus and specific epithet.

Name
2. Use scientific terminology to accurately describe landscape plant morphology.

Name
3. Illustrate plant family relationships at the family and genus level.

Name
4. Apply landscape design principles and knowledge of plant requirements to arrange plants in a landscape.

Common Course Numbering Crosswalk

Past Course Numbers
HORT 210

HORT 2120 - Ornamental Plants II

General

Subject code	Course Number	Course Title
HORT	2120	Ornamental Plants II

Description
Identification, botanical characteristics, culture, and landscape uses of woody plants. Emphasis on flowering trees, cacti, and members of the pea and rose families. (2+3P)

General Education Course
Technical

Learning Outcomes

Name
1. Identify landscape plants by scientific names, including family, genus and specific epithet.

Name
2. Use scientific terminology to accurately describe landscape plant morphology.

Name
3. Illustrate plant family relationships at the family and genus level.

Name
4. Apply landscape design principles and knowledge of plant requirements to arrange plants in a landscape.

Common Course Numbering Crosswalk

Past Course Numbers
HORT 211

HORT 2130 - Floral Quality Evaluation and Design

General

Subject code	Course Number	Course Title
HORT	2130	Floral Quality Evaluation and Design

Description
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. (1+2P)

General Education Course
Technical

Learning Outcomes

Name
1.Identify common floriculture crops or know resourcing to help identify the crop.

Name
2.Evaluate quality (merit and fault) of common floriculture crops, based on industry standards and merit. Pi Alpha Xi and American Floral Endowment standards will be used for the purpose of this class.

Name
3.Have a basic understanding of the floriculture industry and identify career pathways within the industry.

Name
4.Know, understand, creatively interpret, and execute basic principles of design in regard to floral design.

Name
5.Use interpersonal communication, problem solving, basic math, and marketing during cash and carry "lab" time (flower sales) in developing job ready skills in floristry.

Name
6.Layer principles of design, marketing, sales, and time management to create floral art in real-world scenarios.

Common Course Numbering Crosswalk

Past Course Numbers
HORT 240

HORT 2160 - Plant Propagation

General

Subject code	Course Number	Course Title
HORT	2160	Plant Propagation

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Practical methods of propagating plants by seed, cuttings, layering, grafting, division, and tissue culture through experiential, hands-on laboratories.

Name
2. Relevant physiological principles involved in propagating horticultural plants through lecture discussions and readings.

Common Course Numbering Crosswalk

Past Course Numbers
HORT 250

HORT 2990 - Practicum in Horticulture

General

Subject code
HORT

Course Number
2990

Course Title
Practicum in Horticulture

Description
Varies.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
HORT 241

HORT 2996 - Topics in Horticulture

General

Subject code
HORT

Course Number
2996

Course Title
Topics in Horticulture

Description
Varies.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
HORT 200

HOST 155 - Special Topics

General

Subject code
HOST

Course Number
155

Course Title
Special Topics

Description
Specific subjects to be announced in the Schedule of Classes.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

HOST 201 - Introduction to Hospitality Industry

General

Subject code
HOST

Course Number
201

Course Title
Introduction to Hospitality Industry

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

HOST 202 - Front Office Operations

General

Subject code
HOST

Course Number
202

Course Title
Front Office Operations

Description
Hotel/motel front office procedures detailing flow of business, beginning with reservations and extending to the night audit process.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

HOST 203 - Hospitality Operations Cost Control

General

Subject code
HOST

Course Number
203

Course Title
Hospitality Operations Cost Control

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

HOST 204 - Promotion of Hospitality Services

General

Subject code
HOST

Course Number
204

Course Title
Promotion of Hospitality Services

Description
Organization of hotel marketing functions; developing a marketing plan to sell the varied services of the hotel/motel property.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

HOST 205 - Housekeeping, Maintenance, and Security

General

Subject code
HOST

Course Number
205

Course Title
Housekeeping, Maintenance, and Security

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

HOST 206 - Travel and Tourism Operations

General

Subject code
HOST

Course Number
206

Course Title
Travel and Tourism Operations

Description
Transportation, wholesale and retail operations, attractions, the traveler, tourism development, and operational characteristics of tourism business.

General Education Course
Technical

Learning Outcomes

Name
1. Identify components of the travel and tourism industry.

Name
2. Give a detailed description of travel and tourism operations.

Name
3. Identify careers within the industry including a description.

Name
4. Understand the difference between hospitality and tourism.

HOST 208 - Hospitality Supervision

General

Subject code
HOST

Course Number
208

Course Title
Hospitality Supervision

Description
Strategies for directing, leading, managing change and resolving conflict. Prepares students to meet expectations of management, guests, employees, and governmental agencies.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

HOST 210 - Catering and Banquet Operations

General

Subject code
HOST

Course Number
210

Course Title
Catering and Banquet Operations

Description
Teaches the basics of catering and banquet operations, including computer coordination, planning, set up, service, and completion.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate the ability to acquire, handle, and use foods to meet nutrition and wellness needs of individuals and families across the life span.

Name
2. Explain conditions and practices that promote safe food handling.

Name
3. Define factors that affect food safety, from production through consumption.

HOST 214 - Purchasing and Kitchen Management

General

Subject code	Course Number	Course Title
HOST	214	Purchasing and Kitchen Management

Description
Technical purchasing concepts, product selection, and specifications. Safety and sanitation as they relate to food service establishments. Prepares student for work with HACCP programs.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in HOST203 Hospitality Operations Cost Control

HOST 216 - Event, Conference and Convention Operations

General

Subject code	Course Number	Course Title
HOST	216	Event, Conference and Convention Operations

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

HOST 219 - Safety, Security and Sanitation in Hospitality Operations

General

Subject code	Course Number	Course Title
HOST	219	Safety, Security and Sanitation in Hospitality Operations

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

HOST 221 - Internship I

General

Subject code	Course Number	Course Title
HOST	221	Internship I

Description
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.
Repeatable: up to 3 credits.
Restricted to: HOST majors.
Graded: S/U

General Education Course
Technical

Learning Outcomes

Name
1. As it pertains to the Food Service Industry: Getting a job; job searching; reading help wanted ads; newspapers; help wanted bulletins boards; utilizing employment agencies; applying for a job; writing a resume; writing a letter of application; completing job applications; applying by telephone; interviewing for a job; proper interviewing skills; dressing appropriately for a job interview; using proper communication skills; maintaining employment; rules and procedures for employment; appropriate use of timecards; following a work schedule; following oral and written instructions; reporting to work on time; following the required break schedule; exhibiting good work attendance; completing required forms for employment; learning company rules and regulations; learning employment laws; utilizing employer and teacher feedback constructively; utilizing a job coach when necessary; learning a job description; understanding mandatory drug testing; making progress on the job; conforming to the organization; corporate culture; being supervised; when you have a problem; handling criticism; when you don't like the boss; getting along with co-workers; the negative side; building relationships with co-workers; resolving conflicts; career change and growth; career success; personal success; more than a paycheck; rewards include the paycheck; jobs do not pay the same; getting a raise; changing jobs; the right time; the process of resigning; losing your job; layoffs; termination by discharge; a new beginning.

HOST 222 - Cooperative Experience II

General

Subject code	Course Number	Course Title
HOST	222	Cooperative Experience II

Description
Continuation of HOST 221.
Restricted to: HOST majors.
Graded: S/U.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in HOST221 Internship I

HOST 239 - Introduction to Hotel Management

General

Subject code	Course Number	Course Title
HOST	239	Introduction to Hotel Management

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

HOST 255 - Special Topics

General

Subject code	Course Number	Course Title
HOST	255	Special Topics

Description
Specific subjects to be announced in the Schedule of Classes.
Repeatable: up to 9 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

HOST 298 - Independent Study

General

Subject code	Course Number	Course Title
HOST	298	Independent Study

Description
Individual studies directed by consenting faculty with prior approval of department chair.
Repeatable: for a maximum of 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): Minimum 3.0 GPA and sophomore standing

HRTM 1110 - Freshman Orientation

General

Subject code	Course Number	Course Title
HRTM	1110	Freshman Orientation

Description
Orientation to college life, including available resources and methods to promote success. Open to all freshmen and transfer students.
Graded S/U.

Learning Outcomes

Name
1.Identify career opportunities in hospitality and tourism.

Name
2.Understand skills and characteristics desired by potential employers of Hotel, Restaurant and Tourism students.

Name
3.Develop greater appreciation of current trends in the hospitality and tourism industry.

Name
4.Become more familiar with faculty and staff in the School of Hotel, Restaurant and Tourism Management and resources available to students in the department.

Name
5.Refine written and verbal communication skills.

HRTM 1120G - Introduction to Tourism

General

Subject code	Course Number	Course Title
HRTM	1120G	Introduction to Tourism

Description
Survey of travel and tourism development and operating characteristics.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Define tourism and related terms.

Name
2. Identify and explain the role of the elements of the destination mix.

Name
3. Identify the potential socio-cultural, economic and environmental impacts of tourism.

Name
4. Identify and describe the role of key governmental and nongovernmental organizations in tourism.

Name
5. Describe basic tourism planning and development principles.

Name
6. Discuss the unique challenges of tourism marketing and standard marketing methods.

Name
7. Describe the components of the tourism distribution system.

Name
8. Demonstrate a basic understanding of traveler behavior including motivations and barriers to travel.

Name
9. Identify major factors that influence traveler flows.

Name
10. Describe the role of major modes of transportation in the tourism system.

Name
11. Identify and describe the three pillars of sustainable tourism development.

Name
12. Explain personal and social responsibility as it relates to sustainable tourism development.

Name
13. Demonstrate effective communication and critical thinking skills.

Common Course Numbering Crosswalk

Past Course Numbers
HRTM 201

HRTM 1130 - Introduction to Hospitality Management

General

Subject code	Course Number	Course Title
HRTM	1130	Introduction to Hospitality Management

Description
Overview of the major segments of the hospitality industry, with a focus on basic management principles.

Learning Outcomes

Name
1.Understand the concept of management contracts and franchising.

Name
2.Recognize and understand needed leadership qualities to achieve organizational objectives.

Name
3.Understand the hospitality industry within the global environment.

Name
4.Identify company and industry trends.

Name
5.Understand the functions of all departments in a hospitality organization (restaurant, hotel, club, etc.).

Name
6.Apply the concepts of convention management, meeting and event planning, and casino management.

Name
7.Understand the concepts of quick and institutional/contract foodservice management.

Name
8.Understand the principles of bar management and compare and contrast wines, beers and distilled spirits.

Name
9.Manage the process of service delivery.

Name
10.Identify and solve managerial problems.

Name
11.Manage a diverse workforce and develop positive employee relations to reduce turnover.

Common Course Numbering Crosswalk

Past Course Numbers
HRTM 221

HRTM 2110 - Safety, Sanitation and Health in the Hospitality Industry

General

Subject code	Course Number	Course Title
HRTM	2110	Safety, Sanitation and Health in the Hospitality Industry

Description
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.

Learning Outcomes

Name
1.Identify the hazards to safe food and the foods at risk in a foodservice operation.

Name
2.Identify and discuss the Hazard Analysis Critical Control Point (HACCP) system and be able to design a HACCP flowchart.

Name
3.Demonstrate knowledge of how to protect food during purchasing, receiving, storing, preparing, holding, and serving.

Name
4.Discuss the procedures for ensuring sanitary equipment, facilities, and food-handling practices.

Name
5.Explain how to set-up cleaning, safety, pest control, crisis management, and training programs.

Common Course Numbering Crosswalk

Past Course Numbers
HRTM 231

HRTM 2120 - Food Production and Service Fundamentals

General

Subject code	Course Number	Course Title
HRTM	2120	Food Production and Service Fundamentals

Description
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.
Prerequisite(s): HRTM 1130 or FSTE 2110G.
Prerequisite(s)/Corequisite(s): HRTM 2110.
Provides lab.

Learning Outcomes

Name
1.Demonstrate use of standard recipes and how to reduce and increase their yields.

Name
2.Demonstrate basic culinary knife cuts, basic fabrication and mise en place.

Name
3.Demonstrate basic cookery techniques of dry, moist and a combination of heat.

Name
4.Demonstrate the proper plating and garnishing of foods.

Name
5.Describe proper personal behaviors required for the safe handling of food.

Name
6.Identify and properly operate kitchen equipment.

Name
7.Pass the ServSafe Exam.

Name
8.Describe the three forms of food contaminants and preventative measures.

Name
9.Demonstrate how to properly set a table for service.

Name
10.Demonstrate how to provide dining room service with proper etiquette.

Name
11.Demonstrate safe work habits, identify safety hazards, and employ preventative safety measures.

Name
12.Maintain positive relations with fellow students and faculty through teamwork.

Name
13.Exhibit appropriate work habits and attitudes; demonstrate a willingness to compromise.

Name
14.Demonstrate a positive attitude, conversation skills, personal hygiene and work attire.

Prerequisites/Corequisites

Free Form Requirements

- **Prerequisite(s):** A grade of C or better in HRTM1130 Introduction to Hospitality Management or FSTE2110G Food Science I
- **Prerequisite(s)/Corequisite(s):** HRTM2110 Safety, Sanitation and Health in the Hospitality Industry

Common Course Numbering Crosswalk

Past Course Numbers
HRTM 263

HRTM 2130 - Hotel Operations I

General

Subject code	Course Number	Course Title
HRTM	2130	Hotel Operations I

Description
Analysis of hotel operations to include: guest services, reservations, reception, guest/city ledger and the night audit.
Repeatable: up to 3 credits.
Prerequisite(s): HRTM 1130.

Learning Outcomes

Name
1. Outline the history, magnitude and culture of the hotel industry.

Name
2. Define and identify hotel ownership and operational structures.

Name
3. Outline the organization and structure of a hotel and resort.

Name
4. Describe and calculate the components and processes of room reservation forecasting, pricing and revenue management.

Name
5. Outline and explain the flow of the guest from pre-arrival through arrival, room occupancy and departure.

Name
6. Demonstrate the procedures and processes for Guest Accounting, the City Ledger, Guest Credit and the Night Audit.

Name
7. Discuss problem solving and guest service associated with the front office and other departments of the hotel and resort.

Name
8. Forecast impacts of technology to the guest services and hotel operations.

Name
9. Describe the day to day activities and responsibilities of a Hotel Front Office Manager or a Hotel Assistant General Manager (AGM).

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in HRTM1130 Introduction to Hospitality Management

Common Course Numbering Crosswalk

Past Course Numbers

HRTM 235

HRTM 2996 - Topics in Hotel, Restaurant, & Tourism Management

General

Subject code	Course Number	Course Title
HRTM	2996	Topics in Hotel, Restaurant, & Tourism Management

Description

Specific subjects and credits to be assigned on a semester basis for both lecture and laboratory assignments.
Repeatable: for a maximum of 4 credits.
Provides lab.

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers

HRTM 200

I E 151 - Computational Methods in Industrial Engineering

General

Subject code	Course Number	Course Title
IE	151	Computational Methods in Industrial Engineering

Description

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.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in MATH1220G College Algebra

I E 217 - Manufacturing Processes

General

Subject code	Course Number	Course Title
IE	217	Manufacturing Processes

Description

Introduction to manufacturing and processing, including: casting, forming, and machining. Emphasis on creating products with the appropriate techniques. Crosslist: E T 217.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in ET110 Introduction to 3-D Modeling (Solid Works) and MATH1220G College Algebra

INMT 133 - Process Technology and Systems

General

Subject code	Course Number	Course Title
INMT	133	Process Technology and Systems

Description

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.

General Education Course

Technical

Learning Outcomes

Name
1. Explain the different pieces of equipment used in moving fluids through a process plant such as piping, valves, pumps, compressors, motors, engines, turbines, and power transmission devices. Explain the purpose of each component. Understand the applications for the different types of equipment in each classification and their operating principles.

Name
2. Explain the different types of heat exchangers and cooling towers used in the Process Industry as well as their components. Describe their operating principles and the operators role in their operation.

Name
3. Explain the different types of boilers and furnaces as well as their components. Describe their operating principles and the operators role in their operation.

Name
4. Explain the function of filters and dryers along with their principles of operation and the operators role in their operation.

Name
5. Explain the different types of vessels used in the process industry and well as their components and auxiliary systems. Define what happens internally in the different vessels.

Name
6. Demonstrate reading Process Flow Diagrams and Piping and Instrumentation Diagrams.

Name
7. Apply terms used when describing the various pieces of equipment.

INMT 134 - Maintenance Principles

General

Subject code	Course Number	Course Title
INMT	134	Maintenance Principles

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Describe applications of preventive and corrective maintenance on automated industrial production machines.

Name
2. Explain troubleshooting procedures using systems block.

Name
3. Define the various types of electromechanical systems and equipment and how they operate.

INMT 165 - Equipment Processes

General

Subject code	Course Number	Course Title
INMT	165	Equipment Processes

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Explain how Thermal Process System works.

Name
2. Identify parts of Thermal System and Steam machines.

Name
3. Identify troubleshooting of thermal machine.

Name
4. Explain the steps of how to operate the Thermal Systems.

INMT 205 - Programmable Logic Controllers and Applications

General

Subject code	Course Number	Course Title
INMT	205	Programmable Logic Controllers and Applications

Description
Students learn about programmable logic controllers; architecture; programming, interfacing, and applications. Hands-on experience on modern commercial PLC units is the main component.

General Education Course
Technical

Learning Outcomes

Name
1. Explain the basics of PLCs.

Name
2. Describe how PLCs are used in industrial environments.

Name
3. Demonstrate ability to program a PLC unit to solve a problem.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in BCIS1110 Fundamentals of Information Literacy and Systems

INMT 223 - Electrical Repairs

General

Subject code	Course Number	Course Title
INMT	223	Electrical Repairs

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate how to make an electrical repair.

Name
2. Explain how to diagnose a typical electrical occurrence in need of repair.

Name
3. Describe some of the most common breakdowns in electrical equipment.

INMT 235 - Mechanical Drives I

General

Subject code	Course Number	Course Title
INMT	235	Mechanical Drives I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate a lockout/tagout, use a spirit level to determine orientation of a surface, mount an electric motor and correct for a soft foot condition, level an electric motor and use a digital tachometer to measure motor speed on the equipment correctly.

Name
2. Explain the selection of a key size for a given application, measure a key and key seat, cut and file key stock to fit a key seat. Assemble a hub to a shaft using a key seat. Use a pony brake system to measure shaft torque, calculate rotary mechanical power and efficiency. Measure electric motor current.

Name
3. Define how to identify shaft size, install and adjust pillow block antifriction bearings and shaft. Install a flexible jaw coupling. Align two shafts using a straight edge and feeler gauge.

Name
4. Calculate pulley ratio, shaft speed and torque of a chain drive system, install and align a fractional HP V-belt with a finished bore, determine the belt deflection force, and adjust belt tension.

INMT 237 - Hydraulics I

General

Subject code	Course Number	Course Title
INMT	237	Hydraulics I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate how to apply pressure and force fluid characteristics, power and work, Pascals law.

Name
2. Define the hydraulic learning system. They will have to determine which components to install and operate correctly. The students will use schematic drawings to interpret how to set up various hydraulic circuit applications. The student will analyze the various components in operation.

Name
3. Explain operational scenarios that recreate a variety of real world scenarios. There are directional control valves, check valves and relief valves which must be installed correctly for the system to run according to the various objectives.

INMT 261 - Pump Operations I

General

Subject code	Course Number	Course Title
INMT	261	Pump Operations I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Explain how to operate, install, maintain and repair the many types of centrifugal pumps used today by industry. Explain how the various pumps work and how to troubleshoot and maintain them. The student will learn parallel and series pump operation and performance.

Name
2. Describe how various charts and tables determine flow rates for the various pump applications. The student will compare, contrast, prepare flow and pressure charts. They will compare and contrast the pumps and discuss them with their work partner.

Name
3. The student will demonstrate the use of each pump under a variety of conditions such as a variable speed pump motor drive, load valve, air ingestion valve, and cavitation valve. The student will determine the correct type of pump for a specific application.

INMT 262 - Piping Systems

General

Subject code	Course Number	Course Title
INMT	262	Piping Systems

Description
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 dimensioning and tolerancing will taught.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate how to install fluid systems as well as troubleshoot and maintain them. The student will learn basic measurement, gauging, tolerance, and data acquisition. The students will show how to use a drill press, band saw, various hand and power tools.

Name
2. Explain how to prepare a plan and build according to specifications. The students will compare data and the various methods of measurement. With a blending of the various activities, this will allow the student to explain how they are going to design and install various pieces of equipment.

Name
3. The student will be presented with installation problems that recreate a variety of real world scenarios. The hands on activities of the many structured task enables the student to use these performances in other portions of the program.

Name
4. Show how some math is integrated into this program.

INMT 263 - Mechanical Drives II

General

Subject code	Course Number	Course Title
INMT	263	Mechanical Drives II

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1.Explain how to troubleshoot positive displacement pumps, non-positive displacement pumps, single and multistage turbines, reciprocating and centrifugal compressors, and shaft seals.

Name
2.Remove positive displacement pumps, non-positive displacement pumps, single and multistage turbines, reciprocating and centrifugal compressors, and shaft seals.

Name
3.Repair (including identifying proper replacement parts) positive displacement pumps, non-positive displacement pumps, single and multistage turbines, reciprocation and centrifugal compressors, and shaft seals.

Name
4.Install positive displacement pumps, non-positive displacement pumps, single and multistage turbines, reciprocating and centrifugal compressors, and shaft seals.

Name
5.Perform basic shaft alignments for horizontally-mounted equipment.

INMT 264 - Rigging

General

Subject code	Course Number	Course Title
INMT	264	Rigging

Description
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).

General Education Course
Technical

Learning Outcomes

Name
1. Calculate load weight given with per unit length. Calculate the volume of a complex object. Calculate load weight given specific weight and dimension. Calculate the center of gravity of a load. Balance load. Identify hook type given a sample. Identify eyebolt type given a sample. Install an eyebolt for lifting.

Name
2. Show how to mouse a hook. Use a block and tackle to lift a load. Use an endless chain hoist to lift a load. Use a lever-operated hoist to lift a load. Use an electric hoist to lift a load. Select a hoist; inspect lifting hook, eyebolt, and hoist.

Name
3. Calculate sling force of a sling given sling type and loss factor. Calculate sling force of a sling given sling type and sling angle. Assemble and lift a load using a double basket sling. Assemble and lift a load using a choker sling. Assemble and lift a load using a bridle sling. Assemble and lift a load using a U-sling. Calculate crush force. Calculate sling efficiency.

INMT 265 - Hydraulics II

General

Subject code	Course Number	Course Title
INMT	265	Hydraulics II

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Connect a pilot-operated relief valve to unload a pump by venting. Connect and operate a remotely controlled pilot -operated relief valve circuit. Design a circuit to provide a two-pressure control with unloading.

Name
2. Connect and operate a P-port check valve circuit. Connect and operate a pilot-operated check valve. Connect and operate a load-lock circuit. Measure pilot-operated check valve pilot pressure. Calculate the pilot pressure required to open a POC valve. Calculate the maximum pressure in a POC valve circuit. Design a POC valve circuit.

Name
3. Pre-charge an accumulator. Determine accumulator pre-charge pressure. Connect and operate an accumulator bleed-down circuit. Connect and operate an accumulator to safely provide auxiliary and/or emergency power. Design an accumulator circuit to compensate for leakage. Size a bladder-type accumulator.

Name
4. Select a hydraulic motor type for a given application. Identify the correct application for a hydraulic motor. Measure hydraulic motor speed using a strobe-light tachometer. Connect and operate a parallel motor synchronization circuit. Connect and operate a series motor circuit. Connect and operate a free-wheeling motor circuit. Connect and operate a unidirectional motor breaking circuit using a relief valve. Connect and operate a motor circuit with cross cushion relief valve breaking.

Name
5. Calculate the theoretical pump flow rate given displacement. Calculate actual pump flow rate given volumetric efficiency. Calculate hydraulic power. Size a prime mover given pump overall efficiency. Determine overall efficiency given a pump efficiency curve. Calculate the theoretical speed of a motor given its displacement and flow rate. Calculate actual hydraulic motor speed given volumetric efficiency. Calculate theoretical hydraulic motor torque given displacement. Calculate the theoretical hydraulic motor torque given torque specification. Calculate actual motor torque given mechanical efficiency. Determine actual motor torque using a torque-speed curve.

Name
6. Size a conductor. Measure the viscosity of a fluid. Inspect the seals of a sub plated directional control valve. Change a filter element. Size and select a reservoir. Size a heat exchanger.

INMT 267 - Pump Operations II

General

Subject code	Course Number	Course Title
INMT	267	Pump Operations II

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate the reassembly of a centrifugal pump.

Name
2. Define casing wearing, ring clearance and shaft inspection.

Name
3. Explain the disassembly, cleaning, and inspection process.

INST 133 - Process Technology and Systems

General

Subject code	Course Number	Course Title
INST	133	Process Technology and Systems

Description
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: Instrumentation and Control Technology majors

General Education Course
Technical

Learning Outcomes

Name
1.Explain the different pieces of equipment used in moving fluids through a process plant such as piping, valves, pumps, compressors, motors, engines, turbines, and power transmission devices. Explain the purpose of each component. Understand the applications for the different types of equipment in each classification and their operating principles.

Name
2.Explain the different types of heat exchangers and cooling towers used in the Process Industry as well as their components. Describe their operating principles and the operators role in their operation.

Name
3.Explain the different types of boilers and furnaces as well as their components. Describe their operating principles and the operators role in their operation.

Name
4.Explain the function of filters and dryers along with their principles of operation and the operators role in their operation.

Name
5.Explain the different types of vessels used in the process industry and well as their components and auxiliary systems. Define what happens internally in the different vessels.

Name
6.Demonstrate reading Process Flow Diagrams and Piping and Instrumentation Diagrams.

Name
7.Apply terms used when describing the various pieces of equipment.

INST 165 - Equipment Processes

General

Subject code	Course Number	Course Title
INST	165	Equipment Processes

Description
This course introduces Thermal Energy and Mechanical alignment in equipment and machinery components. Students will learn the operation, maintenance, and troubleshooting of these types of equipment. Restricted to: Instrumentation and Control majors.

General Education Course
Technical

Learning Outcomes

Name
1. Explain how Thermal Process System works.

Name
2. Identify parts of Thermal System and Steam machines.

Name
3. Identify troubleshooting of thermal machine.

Name
4. Explain the steps of how to operate the Thermal Systems.

INST 205 - Programmable Logic Controllers and Applications

General

Subject code	Course Number	Course Title
INST	205	Programmable Logic Controllers and Applications

Description
This learning system is set up in a self-directed format where students can proceed forward at their own pace. The directions are provided in a series of Learning Activity Packets (LAPs), which include text and lab activity directions. LAPs book will be handed out at the start of every class day and must be returned before the class day begins. This learning system can be used as a stand-alone teaching learning system within any class to give hands-on experience in electrical systems. Computer Literacy and internet literacy is required to enroll in this course. Restricted to: Instrumentation and Control Technology majors.

General Education Course
Technical

Learning Outcomes

Name
1. Explain the basics of PLCs.

Name
2. Describe how PLCs are used in industrial environments.

Name
3. Demonstrate ability to program a PLC unit to solve a problem.

INST 251 - Instrumentation and Measurement

General

Subject code	Course Number	Course Title
INST	251	Instrumentation and Measurement

Description
The overall aim of this course is to present the students with the basic principles and techniques required for the design and analysis of measurement systems. The course introduces the theory of measurement as well as the sensors and instruments typically used for measuring various physical quantities.

General Education Course
Technical

Learning Outcomes

Name
1. Understand measurement principles and apply them within measurement systems.

Name
2. Select and specify suitable instrumentation for measurement of physical quantities.

Name
3. Analyze and interpret experimental data.

Name
4. Perform analog and digital signal processing.

LING 2110G - Introduction to the Study of Language and Linguistics

General

Subject code	Course Number	Course Title
LING	2110G	Introduction to the Study of Language and Linguistics

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Understand the basic concepts and terminology associated with phonetics, phonology, morphology, syntax, semantics, and pragmatics.

Name
2. Comprehend how language evolves over history and over an individuals lifespan.

Name
3. Describe some common, but mistaken, beliefs about language and to distinguish between descriptive and prescriptive approaches to language.

Name
4. Describe the social, psychological, geographic and historical influences that lead to language dominance or language endangerment.

Name
5. Be aware of the relations among various languages in the world, between dialects and slang, and between human and non-human languages.

Name
6. Apply methods of linguistic analysis as introduced in the course.

Name
7. Critically engage with the works of linguistic researchers.

Name
8. Stimulate curiosity about language and what it reveals about the human mind.

Common Course Numbering Crosswalk

Past Course Numbers
LING 200G

M E 159 - Graphical Communication and Design

General

Subject code	Course Number	Course Title
ME	159	Graphical Communication and Design

Description
Sketching and orthographic projection. Covers detail and assembly working drawings, dimensioning, tolerance specification, and design projects.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): MATH1250G Trigonometry & Pre-Calculus

M E 210 - Electronics and System Engineering

General

Subject code	Course Number	Course Title
ME	210	Electronics and System Engineering

Description
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.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1521G Calculus and Analytic Geometry II or ENGR190 Introduction to Engineering Mathematics

M E 222 - Introduction to Product Development

General

Subject code	Course Number	Course Title
ME	222	Introduction to Product Development

Description
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.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in ME159 Graphical Communication and Design or ET110 Introduction to 3-D Modeling (Solid Works)

M E 228 - Engineering Analysis

General

Subject code	Course Number	Course Title
ME	228	Engineering Analysis

Description
Introduction to engineering analysis with emphasis on engineering applications. Topics include ordinary differential equations, linear algebra, and vector calculus with focus on analytical methods.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in MATH2530G Calculus III

M E 234 - Mechanics Dynamics

General

Subject code	Course Number	Course Title
ME	234	Mechanics Dynamics

Description

Kinematics and dynamic behavior of solid bodies utilizing vector methods.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

- **Prerequisite(s):** A grade of C or better in CE233 Mechanics-Statics
- **Prerequisite(s)/Corequisite(s):** MATH2530G Calculus III

M E 236 - Engineering Mechanics I

General

Subject code	Course Number	Course Title
ME	236	Engineering Mechanics I

Description

Force systems, resultants, equilibrium, distributed forces, area moments, friction, and kinematics of particles.
Repeatable: up to 3 credits.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

- **Prerequisite(s):** A grade of C or better in MATH1521G Calculus and Analytic Geometry II
- **Prerequisite(s)/Corequisite(s):** PHYS1310G Calculus -Based Physics I

M E 237 - Engineering Mechanics II

General

Subject code	Course Number	Course Title
ME	237	Engineering Mechanics II

Description

Kinetics of particles, kinematics and kinetics rigid bodies, systems of particles, energy and momentum principles, and kinetics of rigid bodies in three dimensions.
Repeatable: up to 3 credits.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

- **Prerequisite(s):** A grade of C or better in ME236 Engineering Mechanics I
- **Prerequisite(s)/Corequisite(s):** MATH2350G Statistical Methods

M E 240 - Thermodynamics

General

Subject code	Course Number	Course Title
ME	240	Thermodynamics

Description

First and second laws of thermodynamics, irreversibility and availability, applications to pure substances and ideal gases.
Repeatable: up to 3 credits.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in PHYS1310G Calculus -Based Physics I

M E 261 - Mechanical Engineering Problem Solving

General

Subject code	Course Number	Course Title
ME	261	Mechanical Engineering Problem Solving

Description
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.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1521G Calculus and Analytic Geometry II or ENGR190 Introduction to Engineering Mathematics

MAT 102 - Print Reading for Industry

General

Subject code	Course Number	Course Title
MAT	102	Print Reading for Industry

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

MAT 105 - Introduction to Manufacturing

General

Subject code	Course Number	Course Title
MAT	105	Introduction to Manufacturing

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CCDM114 N Algebra Skills , or an appropriate placement score into MATH1215 Intermediate Algebra or higher

MAT 106 - Applied Manufacturing Practices

General

Subject code	Course Number	Course Title
MAT	106	Applied Manufacturing Practices

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

MAT 110 - Machine Operation and Safety

General

Subject code	Course Number	Course Title
MAT	110	Machine Operation and Safety

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Graduates will demonstrate competence in the use of general and highly specialized tools and equipment.

Name
2. Graduates will read and comprehend technical information and materials from printed and electronic sources relevant to the diagnosis and repair of automotive systems.

Name
3. Graduates will apply technical knowledge and skills to repair, service, and maintain various types of automobiles.

MAT 130 - Applied Industrial Electricity I

General

Subject code	Course Number	Course Title
MAT	130	Applied Industrial Electricity I

Description
Electrical safety, AC and DC circuits, use and care of common measuring instrumentation, schematic and wiring diagrams, electromagnetism, National Electric Code branch circuits.

General Education Course
Technical

Learning Outcomes

Name
1. Describe applications of preventive and corrective maintenance on automated industrial production machines.

Name
2. Explain troubleshooting procedures using system block.

Name
3. Define the various types of electromechanical systems and equipment and how they operate.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1215 Intermediate Algebra or OETS118 Mathematics for Technicians

MAT 135 - Applied Industrial Electricity II

General

Subject code	Course Number	Course Title
MAT	135	Applied Industrial Electricity II

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MAT130 Applied Industrial Electricity I

MAT 145 - Electromechanical Systems for Non-Majors

General

Subject code	Course Number	Course Title
MAT	145	Electromechanical Systems for Non-Majors

Description
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. (3+3P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

MAT 221 - Cooperative Experience I

General

Subject code	Course Number	Course Title
MAT	221	Cooperative Experience I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

MAT 234 - Industrial Electricity Maintenance

General

Subject code	Course Number	Course Title
MAT	234	Industrial Electricity Maintenance

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Describe the different types of motors used in the industry.

Name
2. Explain industrial safety practices relating to electrical motors.

Name
3. Describe motor control fundamentals using variable frequency drives.

MAT 265 - Special Topics

General

Subject code	Course Number	Course Title
MAT	265	Special Topics

Description
Course subtitled in the Schedule of Classes. Repeatable: for a maximum of 12 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

MATH 1130G - Survey of Mathematics

General

Subject code	Course Number	Course Title
MATH	1130G	Survey of Mathematics

Description
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.

General Education Course
Area II, Academic

Learning Outcomes

Name
1. Construct and analyze graphs and/or data sets; Gather and organize information; Understand the purpose and use of various graphical representations such as tables, line graphs, tilings, networks, bar graphs, etc.; Interpret results through graphs, lists, tables, sequences, etc.; Draw conclusions from data or various graphical representations.

Name
2. Use and solve various kinds of equations; Understand the purpose of and use appropriate formulas within a mathematical application; Solve equations within a mathematical application; Check answers to problems and determine the reasonableness of results.

Name
3. Understand and write mathematical explanations using appropriate definitions and symbols; Translate mathematical information into symbolic form; Define mathematical concepts in the students own words; Use basic mathematical skills to solve problems.

Name
4. Demonstrate problem solving skills within the context of mathematical applications; Show an understanding of a mathematical application both orally and in writing; Choose an effective strategy to solve a problem; Gather and organize relevant information for a given application.

Prerequisites/Corequisites

Free Form Requirements
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 CCDM113 N Developmental Algebra II or CCDM114 N Algebra Skills

Common Course Numbering Crosswalk

Past Course Numbers
MATH 210G

MATH 1134 - Fundamentals of Elementary Mathematics I

General

Subject code	Course Number	Course Title
MATH	1134	Fundamentals of Elementary Mathematics I

Description
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, ECED majors.

General Education Course
Academic

Learning Outcomes

Name
1. As future elementary teachers you will be teaching mathematics to children.

Name
2. In order to teach a subject well you need not only to know the material that you will teach, but you need to know more than what you will teach, and know it well, in order to be able to answer questions, understand student reasoning, give alternate explanations when your students do not understand something, and be able to adjust to changes in the mathematical curriculum.

Name
3. Furthermore, even if you hope to teach a given grade, you should be prepared to teach a variety of grades since what a person ends up teaching is often not what they planned to do.

Name
4. We will explore ideas of arithmetic in a way to help you improve your mathematical ability, gain confidence in your ability, introduce to you different ideas and models, and to see a variety of mathematical activities that are appropriate for people of all ages.

Name
5. Everything we study will be done with the aim of developing your ability to relate to the mathematics of elementary school and to help children develop mathematical understanding.

Prerequisites/Corequisites

Free Form Requirements
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 MATH1215 Intermediate Algebra or higher

Common Course Numbering Crosswalk

Past Course Numbers
MATH 111

MATH 1215 - Intermediate Algebra

General

Subject code	Course Number	Course Title
MATH	1215	Intermediate Algebra

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Demonstrate appropriate use of basic function language and notation.

Name
2.Convert between equivalent forms of algebraic expressions.

Name
3.Solve single-variable equations of the types listed above.

Name
4.Interpret and communicate algebraic solutions graphically and numerically.

Name
5.Demonstrate contextual problem-solving skills that include setting up and solving problems and interpreting solutions in context.

Name
6.Apply appropriate problem-solving methods from among algebraic, graphical, and numerical.

Prerequisites/Corequisites

Free Form Requirements
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 CCDM113 N Developmental Algebra II or CCDM114 N Algebra Skills

Common Course Numbering Crosswalk

Past Course Numbers
MATH 120

MATH 1217 - General Supplemental Instruction I

General

Subject code	Course Number	Course Title
MATH	1217	General Supplemental Instruction I

Description
Collaborative workshop for students enrolled in Intermediate Algebra. Graded: S/U.

General Education Course
Academic

Learning Outcomes

Name
1. Intermediate Algebra Workshop provides time for students to work on problems from Intermediate Algebra under the guidance of their instructor.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): MATH1215 Intermediate Algebra

Common Course Numbering Crosswalk

Past Course Numbers
MATH 101

MATH 1220G - College Algebra

General

Subject code	Course Number	Course Title
MATH	1220G	College Algebra

Description
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.

General Education Course
Area II, Academic

Learning Outcomes

Name
1. Use function notation; perform function arithmetic, including composition; find inverse functions.

Name
2. Identify functions and their transformations given in algebraic, graphical, numerical, and verbal representations, and explain the connections between these representations.

Name
3. Graph and interpret key feature of functions, e.g., intercepts, leading term, end behavior, asymptotes.

Name
4. Solve equations algebraically to answer questions about graphs and use graphs to estimate solutions to equations.

Name
5. Solve contextual problems by identifying the appropriate type of function given the context and creating a formula based on the information given.

Name
6. Communicate mathematical information using proper notation and verbal explanations.

Prerequisites/Corequisites

Free Form Requirements
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 MATH1215 Intermediate Algebra or higher

Common Course Numbering Crosswalk

Past Course Numbers
MATH 121G

MATH 1221 - General Supplemental Instruction II

General

Subject code	Course Number	Course Title
MATH	1221	General Supplemental Instruction II

Description
Collaborative workshop for students enrolled in College Algebra. (2P) Graded: S/U.

General Education Course
Academic

Learning Outcomes

Name
1. College Algebra Workshop provides time for students to work on problems from College Algebra under the guidance of their instructor.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): MATH1220G College Algebra

Common Course Numbering Crosswalk

Past Course Numbers
MATH 102

MATH 1250G - Trigonometry & Pre-Calculus

General

Subject code	Course Number	Course Title
MATH	1250G	Trigonometry & Pre-Calculus

Description
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. Note: 80% of course must include 80% of Trigonometry SLOs and 80% of Pre-Calculus SLOs.

General Education Course
Area II, Academic

Learning Outcomes

Name
1. Students will be able to define and evaluate the trigonometric functions as functions of angle in both degree and radian measure using the definitions in terms of x, y, and r; as the ratio of sides of a right triangle; using the unit circle; using reference angles, commonly used (0 o, 30 o, 45 o, 60 o, 90o) angles and using a calculator.

Name
2. Students will be able to solve right triangles. They will be able to draw a sketch in an applied problem when necessary.

Name
3. Students will be able to solve non-right triangles using the law of sines and the law of cosines.

Name
4. Students will be able to prove trigonometric identities and apply addition and subtraction, double-angle, half-angle and power reduction formulas.

Name
5. Students will be able to graph the six trigonometric functions, their transformations and their inverses.

Name
6. Students will be able to use algebraic methods, including the use of identities and inverses, to solve trigonometric equations and demonstrate connections to graphical and numerical representations of the solutions.

Name
7. Students will be able to add and subtract vectors in two dimensions. They will be able to use the dot product to project one vector onto another and to determine the angle between two vectors. They will be able to solve a variety of word problems using vectors.

Name
8. Students will be able to work with polar coordinates; this includes graphing in polar coordinates and transforming an equation with polar coordinates into one with rectangular coordinates, and vice versa.

Name
9. Students will be to work with the trigonometric form of complex numbers, including using De Moivres formula.

Name
10. Functions; Reinforce recognizing a function from its graph and from its algebraic expression; Reinforce identification of a one-to-one function graphically and from its algebraic expression; Reinforce identification of inverse functions graphically and algebraically; Reinforce combining functions arithmetically and compositionally; Be able to calculate the average rate of change of a function using the difference quotient and depict it graphically; Be able to find a limiting value of a function and be able to identify and use the notation that describes this.

Name
11. Graphing; Reinforce using key characteristics of functions to graph them; Be able to graph conic sections from their key characteristics such as foci, eccentricity and asymptotes; Be able to identify all functions mentioned from their graphs, describing their key aspects.

Name
12. Solving; Exponential/Logarithmic equations using the rules of exponents and logarithms; Systems of linear equations by elimination; Non-linear systems algebraically and graphically.

Name
13. Applications; Modeling with functions with an emphasis on exponential and logarithmic functions, growth and decay.

Name
14. Sequences and series; Understand the concept and notation of a sequence; Understand the concept and notation of a series; Be able to find limits of basic sequences; Be able to find sums of basic series.

Prerequisites/Corequisites

Free Form Requirements

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 MATH1220G College Algebra or higher

Common Course Numbering Crosswalk

Past Course Numbers
MATH 190G

MATH 1350G - Introduction to Statistics

General

Subject code	Course Number	Course Title
MATH	1350G	Introduction to Statistics

Description
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.

General Education Course
Area II, Academic

Learning Outcomes

Name
1. Explain the general concepts of statistics; Explain and evaluate statistics used in the real world (from a news article, research project, etc.); Use statistical vocabulary appropriately; Distinguish between descriptive and inferential statistics; Distinguish between qualitative and quantitative data; Distinguish between populations and samples, and parameters and statistics; Give examples of independent and dependent variables.

Name
2. Presentation and description of data; Present data graphically using histograms, frequency curves and other statistical graphs; Interpret graphs of data, including histograms and shapes of distributions.

Name
3. Summarize data using measures of central tendency and variation; Calculate and interpret the mean, median, and mode to describe data; Calculate and interpret range, variance, and standard deviation to describe data.

Name
4. Present the concepts of probability; Interpret basic probabilities; Calculate probabilities using compound probability rules and the binomial distribution; Calculate probabilities using the standard normal distribution and relate them to areas under the curve; Determine if the binomial distribution can be approximated with the normal distribution; Describe the relationship between the sampling distribution and the population distribution; Use the central limit theorem to approximate the probability distribution and calculate probabilities.

Name
5. Compute point and interval estimates; Determine the confidence interval for a parameter; Interpret the confidence level and margin of error; Determine whether a statistical technique is appropriate under stated conditions.

Name
6. Perform hypothesis tests; Determine whether a statistical test is appropriate under stated conditions; Identify null and alternative hypothesis; Perform and interpret statistical tests (e.g., z-test, t-test, one-tailed and two-tailed, one-sample, two-sample) and determine whether data is statistically significant; State the conclusion of a hypothesis test; Interpret a p-value as compared to a significance level; Explain why a test can lead us to reject a null hypothesis, not accept one; Distinguish between Type I and Type II errors.

Name
7. Analyze data using regression and correlation; Explain the difference between correlation and causation; Construct and interpret scatter plots; Calculate and interpret the linear correlation coefficient; Determine and use the equation of a least-squares regression line between two variables to make predictions; Interpret the meaning of the coefficient of determination.

Name
8. Optional topics; Inter-quartile range, boxplots, stem-and-leaf plots; Combinations and permutations; The Poisson distribution; Statistical power; Chi-square; Analysis of variance.

Common Course Numbering Crosswalk

Past Course Numbers
A ST 251G, STAT 251G

MATH 1430G - Applications of Calculus I

General

Subject code	Course Number	Course Title
MATH	1430G	Applications of Calculus I

Description
An algebraic and graphical study of derivatives and integrals, with an emphasis on applications to business, social science, economics and the sciences.(2+2P)

General Education Course
Area II, Academic

Learning Outcomes

Name
1. Find limits algebraically and graphically and use limits to analyze continuity.

Name
2. Find the derivative of a function by applying appropriate techniques (limit of the difference quotient, general derivative rules, product rule, quotient rule, chain rule, and higher order derivatives).

Name
3. Perform implicit differentiation. Use implicit differentiation to solve related rate application problems.

Name
4. Use the derivative to describe the rate of change and slope of a curve in general and at particular points. Compare and contrast average rates of change to instantaneous rates of change.

Name
5. Find the maxima, minima, points of inflections, and determine concavity of a function by applying the first and second derivatives. Use these results to sketch graphs of functions and to solve optimization problems in context.

Name
6. Find the antiderivative and indefinite integral functions to include integration by substitution. Apply the Fundamental Theorem of Calculus in computing definite integrals of functions.

Name
7. Approximate the area under the curve using Riemann sums.

Name
8. Use the integral to determine the area under a curve and to find the accumulated value of a function in context.

Name
9. Solve contextual problems by identifying the appropriate type of function given the context, creating a formula based on the information given, applying knowledge of algebra and calculus, and interpreting the results in context.

Name
10. Communicate mathematical information using proper notation and verbal explanations.

Prerequisites/Corequisites

Free Form Requirements
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 MATH1220G College Algebra or higher

Common Course Numbering Crosswalk

Past Course Numbers
MATH 142G

MATH 1435 - Applications of Calculus I

General

Subject code	Course Number	Course Title
MATH	1435	Applications of Calculus I

Description
Intuitive differential calculus with applications to engineering.

General Education Course
Academic

Learning Outcomes

Name
1.Find limits algebraically and graphically and use limits to analyze continuity.

Name
2.Find the derivative of a function by applying appropriate techniques (limit of the difference quotient, general derivative rules, product rule, quotient rule, chain rule, and higher order derivatives).

Name
3.Learn derivative rules for polynomial, exponential, logarithmic, trigonometric and inverse trigonometric functions.

Name
4.Perform implicit differentiation. Use implicit differentiation to solve related rate application problems.

Name
5.Find the maxima, minima, points of inflections, and determine concavity of a function by applying the first and second derivatives. Use these results to sketch graphs of functions and to solve optimization problems in context.

Name
6.Find partial derivatives and find maxima, minima in three dimensions.

Name
7.Find the linear approximation of a function.

Name
8.Find Maclaurin and Taylor series.

Name
9.Find limits via LHospitals rule.

Name
10.Communicate mathematical information using proper notation and verbal explanations.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1250G Trigonometry & Pre-Calculusor higher

Common Course Numbering Crosswalk

Past Course Numbers
MATH 235

MATH 1440 - Applications of Calculus II

General

Subject code	Course Number	Course Title
MATH	1440	Applications of Calculus II

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Find definite and indefinite integrals using integration by parts, integral tables, and numerical integration.

Name
2.Analyze multivariable functions using partial derivatives and double integrals, and apply these techniques to applications such as optimization, least squares, and volumes.

Name
3.Solve differential equations graphically, numerically, and algebraically using separation of variables, and apply differential equations in context.

Name
4.Apply differentiation and integration to other areas, for example to Taylor polynomials and Taylor series, probability, trigonometric functions, etc.

Common Course Numbering Crosswalk

Past Course Numbers
MATH 236

MATH 1511G - Calculus and Analytic Geometry I

General

Subject code	Course Number	Course Title
MATH	1511G	Calculus and Analytic Geometry I

Description
Limits and continuity, theory and computation of derivatives, applications of derivatives, extreme values, critical points, derivative tests, LHopitals Rule.

General Education Course
Area II, Academic

Learning Outcomes

Name
1. The goals are to present the concepts of calculus, stressing techniques, applications, and problem solving, and emphasizing numerical aspects such as approximations and order of magnitude. Overall, the goals are to illustrate the power of calculus as a tool for modeling situations arising in physics, science, engineering and other fields. In fulfillment of these goals, this and later courses will stress topics such as polynomial approximation, setting up integrals, as well as the use of appropriate technology.

Name
2. Overall, the goals are to illustrate the power of calculus as a tool for modeling situations arising in physics, science, engineering and other fields.

Name
3. In fulfillment of these goals, this and later courses will stress topics such as polynomial approximation, setting up integrals, as well as the use of appropriate technology

Prerequisites/Corequisites

Free Form Requirements
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 MATH1250G Trigonometry & Pre-Calculusor higher

Common Course Numbering Crosswalk

Past Course Numbers
MATH 191G

MATH 1521G - Calculus and Analytic Geometry II

General

Subject code	Course Number	Course Title
MATH	1521G	Calculus and Analytic Geometry II

Description
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.
Repeatable: up to 4 credits.

General Education Course
Area II, Academic

Learning Outcomes

Name
1. Recognize the interplay between Riemann sums and definite integrals.

Name
2. Use the Fundamental Theorem of Calculus to compute definite and indefinite integrals.

Name
3. Demonstrate an understand of the relationship between the derivative and the definite integral.

Name
4. Evaluate integrals numerically using standard rules (midpoint, trapezoid, Simpsons).

Name
5. Evaluate integrals analytically using standard methods (substitution, integration by parts, trigonometric substitution and identities, inverse functions and partial fractions.

Name
6. Use integration to solve problems in geometry, physics, science, engineering and other fields.

Name
7. Use appropriate methods such as LHospitals Rule to evaluate improper integrals.

Name
8. Approximate functions using Taylor polynomials.

Name
9. Apply standard tests to determine convergence or divergence of sequences and series.

Name
10. Find a power series representation for a function and determine where it converges.

Name
11. Identify and evaluate first order differential equations.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1511G Calculus and Analytic Geometry I or higher

Common Course Numbering Crosswalk

Past Course Numbers
MATH 192G

MATH 1521H - Calculus and Analytic Geometry II Honors

General

Subject code	Course Number	Course Title
MATH	1521H	Calculus and Analytic Geometry II Honors

Description
A more advanced treatment of the material of MATH 1521G with additional topics. (3+1P)

General Education Course
Academic

Learning Outcomes

Name
1. Recognize the interplay between Riemann sums and definite integrals.

Name
2. Use the Fundamental Theorem of Calculus to compute definite and indefinite integrals.

Name
3. Demonstrate an understand of the relationship between the derivative and the definite integral.

Name
4. Evaluate integrals numerically using standard rules (midpoint, trapezoid, Simpsons).

Name
5. Evaluate integrals analytically using standard methods (substitution, integration by parts, trigonometric substitution and identities, inverse functions and partial fractions.

Name
6. Use integration to solve problems in geometry, physics, science, engineering and other fields.

Name
7. Use appropriate methods such as LHospitals Rule to evaluate improper integrals.

Name
8. Approximate functions using Taylor polynomials.

Name
9. Apply standard tests to determine convergence or divergence of sequences and series.

Name
10. Find a power series representation for a function and determine where it converges.

Name
11. Identify and evaluate first order differential equations.

Common Course Numbering Crosswalk

Past Course Numbers
MATH 192GH

MATH 1531 - Introduction to Higher Mathematics

General

Subject code	Course Number	Course Title
MATH	1531	Introduction to Higher Mathematics

Description
Logic; sets, relations, and functions; introduction to mathematical proofs.

General Education Course
Academic

Learning Outcomes

Name
1.The primary objective of this course is to serve as a bridge between the calculus courses you have taken, where the focus is on computations and solving problems, to more abstract mathematics courses.

Name
2.In particular, we will discuss logical reasoning, definitions, proofs, and certain basic building blocks such as sets, functions, and relations.

Name
3.By the end of the course, you should be able to understand and construct well-written proofs of basic mathematical arguments involving simple properties of the real numbers, integers, sets, functions, and relations using universal and existential quantifiers, absolute values and inequalities, modular arithmetic, and proof by induction.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1521G Calculus and Analytic Geometry II

Common Course Numbering Crosswalk

Past Course Numbers
MATH 279

MATH 1996 - Topics in Mathematics

General

Subject code	Course Number	Course Title
MATH	1996	Topics in Mathematics

Description
Topics to be announced in the Schedule of Classes.
Maximum of 3 credits per semester.
Repeatable: up to 6 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
MATH 107

MATH 2134G - Fundamentals of Elementary Math II

General

Subject code	Course Number	Course Title
MATH	2134G	Fundamentals of Elementary Math II

Description
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. Repeatable: up to 3 credits.

General Education Course
Area II, Academic

Learning Outcomes

Name
1. The primary objectives are mathematical: to understand some of the basic concepts of geometry, and measurement with an appropriate level of rigor; to appreciate the historical, cultural and educational contributions and potential applications in real life situations; and to gain problem solving skills using these concepts.

Name
2. The secondary goal is to appreciate the importance of this material in the elementary school curriculum.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1134 Fundamentals of Elementary Mathematics I

Common Course Numbering Crosswalk

Past Course Numbers
MATH 112G

MATH 2234 - Fundamentals of Elementary Mathematics III

General

Subject code	Course Number	Course Title
MATH	2234	Fundamentals of Elementary Mathematics III

Description
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. Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1.In order to teach a subject well you need not only to know the material that you will teach, but you need to know more than what you will teach, and know it well, in order to be able to answer questions, give alternate explanations when your students do not understand something, and be able to adjust to changes in the mathematical curriculum.

Name
2.Furthermore, even if you hope to teach a certain grade, you should be prepared to teach anything between kindergarten and 8th grade.

Name
3.You also need to be aware of where a student is coming from in order to make adjustments in their curriculum.

Name
4.A strong elementary school teacher must understand where his/her students are headed in order to most effectively direct them there.

Name
5.This is especially true in mathematics, where students continue to build on the concepts they learn each year.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH2134G Fundamentals of Elementary Math II

Common Course Numbering Crosswalk

Past Course Numbers
MATH 215

MATH 2350G - Statistical Methods

General

Subject code	Course Number	Course Title
MATH	2350G	Statistical Methods

Description
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.

General Education Course
Area II, Academic

Learning Outcomes

Name
1. Summarize Data through graphs and Descriptive statistics; Define qualitative and quantitative data; Provide examples of a population, a sample, independent and dependent variables, parameters and statistics; Construct and interpret histograms, stem plots, bar charts, and boxplot; Summarize distributions with numerical measures such as mean, median, standard deviation, percentiles, interquartile range.

Name
2. Present the concepts of probability; Explain related to probability axioms (e.g., mutually exclusive events and independent events); Apply applications of probability rules; Apply Conditional probability and Bayes Rule.

Name
3. Distinguish between discrete and continuous random variables; Calculate probabilities using Binomial and Poisson distributions; Calculate probabilities using the standard normal distribution by finding the area underneath the curve.

Name
4. Explain the Central Limit Theorem; Introduce the concept of a sampling distribution; Discuss the distribution of the sample mean and sample proportion under repeated sampling; Generate and interpret a sampling distribution using repeated sampling; Determine if the Binomial and Poisson distribution can be approximated with the normal distribution.

Name
5. Estimate a population parameter; Determine confidence interval for population mean, proportion, difference of means, and difference of proportions; Interpret the confidence interval and margin of error; Explain the dependence of margin of error on sample size and confidence level.

Name
6. Perform hypothesis tests for population parameters (population mean, proportion, difference of means, and difference of proportions); Describe the logic and framework of the inference of hypothesis testing; Make a decision using a p-value and draw an appropriate conclusion; Distinguish between Type I and Type II errors; Explain power of the test.

Name
7. Perform Hypothesis Tests for Categorical data; Determine and analyze Chi-square test for Independence; Determine and analyze Chi-square test for Goodness of fit.

Name
8. Analyze data using regression and correlation; Construct scatterplots and analyze the scatter plots; Calculate the linear correlation coefficient and determine whether a linear relationship exists between two variables; Fit the least-squares regression line between two variables; Predict the response variable from the regression line; Apply statistical inference to regression parameters.

Name
9. Perform analysis of variance; State hypotheses for the test of several population means; Construct the AVOVA Table; Explain the significance of multiple comparisons.

Name
10. Demonstrate the appropriate use of technology (e.g., Excel, an appropriate graphing calculator or other software (Minitab, SAS).

Prerequisites/Corequisites

Free Form Requirements

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 MATH1350G Introduction to Statistics

Common Course Numbering Crosswalk

Past Course Numbers

STAT 271G

MATH 2415 - Introduction to Linear Algebra

General

Subject code	Course Number	Course Title
MATH	2415	Introduction to Linear Algebra

Description

Systems of equations, matrices, vector spaces and linear transformations. Applications to computer science.

General Education Course

Academic

Learning Outcomes

Name

1. Use row reduction and echelon forms of a matrix to solve linear systems of equations.

Name

2. Use matrix operations, inverse matrices, and matrix factorizations to solve matrix equations.

Name

3. Study the properties of vector spaces and subspaces (e.g., the null and column spaces of a matrix); linear transformations, isomorphisms and kernels; linear independence, bases, and dimension.

Name

4. Apply appropriate matrix manipulations to perform a change of basis.

Name

5. Understand determinants and their properties.

Name

6. Find eigenvalues and eigenvectors and use them to diagonalize matrices.

Name

7. Understand inner product spaces and apply them to real-world problems.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in MATH1521G Calculus and Analytic Geometry II

Common Course Numbering Crosswalk

Past Course Numbers

MATH 280

MATH 2530G - Calculus III

General

Subject code	Course Number	Course Title
MATH	2530G	Calculus III

Description

Continuation of Calculus II including multivariate and vector calculus, level curves and surfaces, partial derivatives, gradient, directional derivatives, tangent planes, optimization, multiple integrals in Cartesian, cylindrical and spherical coordinate systems.

General Education Course

Area II, Academic

Learning Outcomes

Name

1. Vectors in 3-dimensional space; Use vector notation correctly; Perform vector operations, including dot product, cross product, differentiation and integration, and demonstrate their geometric interpretations; Perform operations on vector valued functions and functions of a parameter.

Name

2. Functions of multiple variables; Identify and graph the equations of cylinders and quadratic surfaces in 3-dimensional space; Determine the domain of continuity of a vector valued function and of a function of multiple variables.

Name
3. Applications of differentiation; Compute partial derivatives, generally and at a point, and sketch their graphical representation on a surface in space; Recognize when the chain rule is needed when differentiating functions of multiple variables, parametric equations and vector valued functions, and be able to use the chain rule in these situations; Compute curvature of a parameterized vector representation of a curve in 2- and 3-dimensional space and be able to explain its meaning; Compute the unit tangent and unit normal vectors to a curve and be able to sketch them with the curve; Computationally move among position vector, velocity vector, speed, and acceleration vectors; recognize and demonstrate their use as applied to motion in space; Determine the equation of the tangent plane to a surface at a point; Use the tangent plane to a surface to approximate values on the surface and estimate error in approximation using differentials; Compute directional derivatives and represent them graphically relative to the inherent surface; Compute the gradient vector; represent it graphically relative to the inherent surface and use it to maximize or minimize rate of change of the function; Locate local and global maxima and minima of a function; Use Lagrange multipliers to maximize output with one or two constraints.

Name
4. Application of Integration; Compute arc length and be able to explain its derivation as a limit; Calculate double and triple integrals independently and with their geometric representations as surfaces, areas and volumes; Calculate iterated integrals in polar, cylindrical and spherical coordinate systems.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1521G Calculus and Analytic Geometry II

Common Course Numbering Crosswalk

Past Course Numbers
MATH 291G

MATH 2992 - Directed Study in Mathematics

General

Subject code	Course Number	Course Title
MATH	2992	Directed Study in Mathematics

Description
Varies.
Graded: S/U.
Repeatable: for a maximum of 6 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
MATH 200

MATH 2996 - Topics in Mathematics

General

Subject code	Course Number	Course Title
MATH	2996	Topics in Mathematics

Description
Varies.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

MGMT 2110 - Principles of Management

General

Subject code	Course Number	Course Title
MGMT	2110	Principles of Management

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1.Explain the major functions of management including planning, organizing, communications, controlling, motivating, leading, and staffing.

Name
2.Recognize major developments in the history of management thought.

Name
3.Describe the basic managerial processes including decision-making and other key skills necessary for managers to perform their roles.

Name
4.Identify an organizations stakeholders and the importance of social and ethical responsibility of managers.

Name
5.Explain the formulation and implementation of strategic planning, including the relationship between goals, plans, vision statements, and mission statements.

Name
6.Describe the strategies managers use to help organizations adapt to changing internal and external environments.

Name
7.Explain organizational change, forces for change, sources of resistance to change, and the techniques managers can use to implement and facilitate change.

Common Course Numbering Crosswalk

Past Course Numbers
MGT 201

MGMT 2998 - Internship

General

Subject code	Course Number	Course Title
MGMT	2998	Internship

Description
Varies. Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

MKTG 180 - Level 1, PGA's PGM Education Program (Part 1)

General

Subject code	Course Number	Course Title
MKTG	180	Level 1, PGA's PGM Education Program (Part 1)

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

MKTG 181 - Level 1, PGA's PGM Education Program (Part 2)

General

Subject code	Course Number	Course Title
MKTG	181	Level 1, PGA's PGM Education Program (Part 2)

Description
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. MKTG majors.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

MKTG 280 - Level 1, PGA's PGM Education Program (Part 3)

General

Subject code	Course Number	Course Title
MKTG	280	Level 1, PGA's PGM Education Program (Part 3)

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

MKTG 281 - Level 2, PGA's PGM Education Program (Part 1)

General

Subject code	Course Number	Course Title
MKTG	281	Level 2, PGA's PGM Education Program (Part 1)

Description
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. MKTG majors.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

MKTG 1210 - Advertising

General

Subject code	Course Number	Course Title
MKTG	1210	Advertising

Description
A survey of currently available advertising media. A psychological approach to consumer persuasion; applied techniques in media selection, layout mechanics, production methods, and campaign structures.

General Education Course
Academic

Learning Outcomes

Name
1.Define advertising and the relevant application of psychology in delivering the message.

Name
2.Explain the importance of various advertising media in the marketing mix.

Name
3. Identify and explain the social, ethical and legal issues advertisers must consider.

Name
4.Describe the significance of the marketing function in business.

Name
5.Explain the importance of advertising and other marketing communication tools.

Name
6.Demonstrate application of the planning process as it applies to marketing and advertising.

Name
7.Describe the factors that ae weighted when considering the use of radio and television in the creative advertising mix.

Name
8.Describe the relationship between market segment, consumer behavior and selection of advertising campaign types.

Name
9.List the alternative means of reaching a target market and the technical challenges of each.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MKTG2110 Principles of Marketing

MKTG 1220 - Small Business Marketing

General

Subject code	Course Number	Course Title
MKTG	1220	Small Business Marketing

Description
An overview of public relations principles, practices and purposes as applied to small business. Topics include basics of news release writing, media awareness, development and maintenance of a positive public image, branding, ethical marketing, and the relationships of public relations with advertising and marketing. Methods and practices used in small business are explored.

General Education Course
Academic

Learning Outcomes

Name
1.Explain the importance of creating and sustaining a positive public awareness and image.

Name
2.Identify public relations practices as they relate to the management and marketing processes.

Name
3.Define branding and discuss its importance for small business.

Name
4.Describe the value of business event management and promotion for small business.

Name
5.Discuss how media relations, public relations, advertising and marketing efforts are interrelated and the importance of each.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MKTG2110 Principles of Marketing

MKTG 2110 - Principles of Marketing

General

Subject code	Course Number	Course Title
MKTG	2110	Principles of Marketing

Description
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.
Repeatable: up to 6 credits.

General Education Course
Academic

Learning Outcomes

Name
1.Describe the professional, ethical, and social responsibilities of marketers.

Name
2.Explain the role of the product in the marketing mix, including the product life cycle, the relevance of product innovation, and product classifications.

Name
3.Illustrate the role of promotion in the marketing mix, including the communication process and the promotional mix.

Name
4.Explain the role of price in the marketing mix, including pricing objectives, pricing policies, and pricing methods.

Name
5.Describe the operation of channels of distribution and supply chains, including functions of intermediaries and degrees of coverage.

Name
6.Define the concepts of target markets and market segmentation with respect to elements of the marketing mix.

Name
7.Explain the importance of market research and information systems in supporting marketing decision-making.

Name
8.Describe the dynamic environment(s) in which marketing decisions must be made.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in BUSA1110 Introduction to Business

Common Course Numbering Crosswalk

Past Course Numbers
BMGT 210, MKTG 203

MKTG 2220 - Digital Marketing

General

Subject code	Course Number	Course Title
MKTG	2220	Digital Marketing

Description
This course focuses on planning to create and market a website. Internal marketing topics such as registering with search engines, increasing traffic, segmenting and targeting markets, establishing an online presence, developing a marketing plan and reshaping business for the Web market are covered.

General Education Course
Academic

Learning Outcomes

Name
1.Describe how search engines work. (Use knowledge to make recommendations to a website on how it can improve its organic search rankings - perform search engine optimization).

Name
2.Describe the various methods of online display advertising.

Name
3.Determine the appropriate key performance indicators (KPIs) for any type of website.

Name
4.Describe and implement best practices in marketing to a database of current and potential customers via email.

Name
5.Utilize knowledge of social media tactics to design an effective social media campaign.

Name
6.Implement online reputation management tactics to improve the online reputation of a brand.

Name
7.Develop and present a digital marketing plan for a small, local business.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MKTG2110 Principles of Marketing

MUSC 1110G - Music Appreciation: Jazz

General

Subject code	Course Number	Course Title
MUSC	1110G	Music Appreciation: Jazz

Description
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.

General Education Course
Area VI, Academic

Learning Outcomes

Name
1. Develop a vocabulary of musical terms, and be able to describe music using those terms.

Name
2. Demonstrate knowledge of composers, their music and their relationship to historical periods.

Name
3. Recognize how music played and plays a political, social, and cultural function.

Name
4. Identify well-known pieces and the historical and social context in which they were composed.

Name
5. Demonstrate basic understanding of music notation and musical communication.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 201G

MUSC 1130G - Music Appreciation: Western Music

General

Subject code	Course Number	Course Title
MUSC	1130G	Music Appreciation: Western Music

Description
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.

General Education Course
Area VI, Academic

Learning Outcomes

Name
1. Develop a vocabulary of musical terms, and be able to describe music using those terms.

Name
2. Demonstrate knowledge of composers, their music and their relationship to historical periods.

Name
3. Recognize how music played and plays a political, social, and cultural function.

Name
4. Identify well-known pieces and the historical and social context in which they were composed.

Name
5. Demonstrate basic understanding of music notation and musical communication.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 101G

MUSC 1210 - Fundamentals of Music for Non-majors

General

Subject code	Course Number	Course Title
MUSC	1210	Fundamentals of Music for Non-majors

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Demonstrate and apply standard notation of pitch, rhythm, scales, intervals, key signatures, triads, and simple melodic and harmonic composition.

Name
2. Develop and improve basic aural skills.

Name
3. Read musical notation.

Name
4. Improve and expand understanding of fundamental musical techniques and concepts.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 102

MUSC 1220 - Fundamentals of Piano for non-music majors

General

Subject code	Course Number	Course Title
MUSC	1220	Fundamentals of Piano for non-music majors

Description
This course will include instruction for non-music majors in beginning keyboarding skills. Students will develop their keyboard skills through practice and study of fundamentals.

General Education Course
Academic

Learning Outcomes

Name
1. Develop technical skills in both hands to allow for ease in movement around the keyboard.

Name
2. Develop growth in reading rhythmic melodic and harmonic music.

Name
3. Demonstrate improved performance ability.

Name
4. Demonstrate knowledge of all major and minor scales, triads, chord progressions, and four-part harmony.

Name
5. Explain the importance of proper keyboarding practices.

MUSC 1310 - Recital Attendance

General

Subject code	Course Number	Course Title
MUSC	1310	Recital Attendance

Description
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.
Music and Music Education majors. (1P)
Repeatable: up to 4 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Encourage student observation of serious music.

Name
2. Provide opportunities for public performances.

Name
3. To create a greater sense of community within the student body.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 121

MUSC 1410 - Introduction to Music Education

General

Subject code	Course Number	Course Title
MUSC	1410	Introduction to Music Education

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Make observations and analyze the current state of musical education in public schools.

Name
2. Describe characteristics of good teaching in music.

Name
3. Articulate a personal philosophy of music education.

Name
4. Reflect on personal strengths and weaknesses as a teacher of music.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 250

MUSC 1440 - Class Voice I

General

Subject code	Course Number	Course Title
MUSC	1440	Class Voice I

Description
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.
Repeatable: up to 1 credit.

General Education Course
Academic

Learning Outcomes

Name
1. Provide the basic understanding of healthy vocal production. Including, but is not limited to, the following topics: Expanding vocal range; Learning how to practice and learn songs effectively and efficiently; Provide basic understanding of vocal pedagogy; Introduction to diction.

Name
2. Aims to equip students with the ability to impart that knowledge to elementary, junior and/or high school age students.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 141

MUSC 1450 - Ear Training I

General

Subject code	Course Number	Course Title
MUSC	1450	Ear Training I

Description
To develop the ability to accurately hear, identify, sing and notate musical elements including rhythm, melody, intervals and harmony.

General Education Course
Academic

Learning Outcomes

Name
1. Counting rhythms at sight using the Eastman Counting System.

Name
2. Singing melodies at sight using solfege syllables.

Name
3. Writing out rhythmic patterns.

Name
4. Writing out melodic patterns.

Name
5. Identifying and singing intervals.

Name
6. Identifying and singing chord / triad qualities.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MUSC1210 Fundamentals of Music for Non-majors

Common Course Numbering Crosswalk

Past Course Numbers
MUS 103

MUSC 1451 - Ear Training II

General

Subject code	Course Number	Course Title
MUSC	1451	Ear Training II

Description
To develop the ability to accurately hear, identify, sing and notate musical elements including rhythm, melody, intervals and harmony.

General Education Course
Academic

Learning Outcomes

Name
1. Counting rhythms at sight using the Eastman Counting System.

Name
2. Singing melodies at sight using solfege syllables.

Name
3. Writing out rhythmic patterns.

Name
4. Writing out melodic patterns.

Name
5. Identifying and singing intervals.

Name
6. Identifying and singing chord / triad qualities.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MUSC1450 Ear Training I

Common Course Numbering Crosswalk

Past Course Numbers
MUS 104

MUSC 1460 - Music Theory I

General

Subject code	Course Number	Course Title
MUSC	1460	Music Theory I

Description
Introduction to vocabulary and syntax of 4-voice 18th c. chorale music through study and harmonic analysis.

General Education Course
Academic

Learning Outcomes

Name
1. To learn the vocabulary and syntax of 4-voice 18th c. chorale music through study and harmonic analysis

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MUSC1210 Fundamentals of Music for Non-majors

Common Course Numbering Crosswalk

Past Course Numbers
MUS 105

MUSC 1461 - Music Theory II

General

Subject code	Course Number	Course Title
MUSC	1461	Music Theory II

Description
Expansion of vocabulary and syntax of 4-voice 18th c. chorale music through study, harmonic analysis, and part writing.

General Education Course
Academic

Learning Outcomes

Name
1. To expand and apply the vocabulary and syntax of 4-voice, 18th c. chorale music through study, harmonic analysis, and part writing.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MUSC1460 Music Theory I

Common Course Numbering Crosswalk

Past Course Numbers
MUS 106

MUSC 1470 - Functional Piano I

General

Subject code	Course Number	Course Title
MUSC	1470	Functional Piano I

Description
Scales, chords, memorization. Harmonization of simple melodies with the ability to play simple melodies and rhythms.
Repeatable: for unlimited credit.

General Education Course
Academic

Learning Outcomes

Name
1. 5 finger hand position in all keys.

Name
2. I-IV-I-V7-I cadences in all keys.

Name
3. One octave scales with hands together in C, G, D and F (major and minor).

Name
4. Root position cross--over triads, solid and broken (major and minor).

Name
5. Simple sight reading, harmonizing and transposition.

Name
6. Prepared pieces from the textbook.

Name
7. Simple improvisation.

Name
8. Play 2 simple vocal exercises.

Name
9. Identify intervals, key signatures and chords.

Name
10.Correct posture and hand position.

Name
11.Musical issues such as phrasing, slurs and dynamics.

Name
12.Good practice habits and techniques.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 145

MUSC 1471 - Functional Piano II

General

Subject code	Course Number	Course Title
MUSC	1471	Functional Piano II

Description
Scales, chords, memorization. Harmonization of simple melodies with the ability to play simple melodies and rhythms.
Repeatable: for unlimited credit.

General Education Course
Academic

Learning Outcomes

Name
1. Two octave scales with hands separate in C, G, D, A, E, B and F (major and minor).

Name
2. I-IV-I-V-V7-I cadences in above mentioned keys in root position and 1st inversion.

Name
3. Simple sight reading, harmonization and transposition.

Name
4. Prepared pieces from the book.

Name
5. Simple improvisation.

Name
6. Identify intervals, key signatures and chords.

Name
7. Correct posture and hand position.

Name
8. Musical issues such as phrasing, slurs and dynamics.

Name
9. Good practice habits and techniques.

Prerequisites/Corequisites

No Requirements

Common Course Numbering Crosswalk

Past Course Numbers
MUS 146

MUSC 1472 - Functional Piano III

General

Subject code	Course Number	Course Title
MUSC	1472	Functional Piano III

Description
For music majors preparing for the Piano Proficiency Examination. May be taken for unlimited credit.
Repeatable: for unlimited credit.

General Education Course
Academic

Learning Outcomes

Name
1. Keys learned in previous semesters, adding F# and C# (D flat).

Name
2. Secondary dominant chords added to cadence patterns.

Name
3. Two-octave, root position arpeggios, major and minor.

Name
4. Intro to chord charts, harmonization.

Name
5. More difficult sight--reading and transpositions.

Name
6. More difficult prepared pieces.

Name
7. Accompany a piece for any instrument on the Mid--Term Recital (required).

Common Course Numbering Crosswalk

Past Course Numbers
MUS 147

MUSC 2110 - Chamber Ensemble

General

Subject code	Course Number	Course Title
MUSC	2110	Chamber Ensemble

Description
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.
Repeatable: up to 16 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Improve performance skills.

Name
2. Develop and improve performance skills in a group setting.

Name
3. Develop understanding and interpretation within the context of music history.

Name
4. Refine and improve technical ability.

Name
5. Demonstrate proper technique and usage.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 164, MUS 171

MUSC 2120 - Major Ensemble

General

Subject code	Course Number	Course Title
MUSC	2120	Major Ensemble

Description
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.
Repeatable: up to 10 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Improve performance skills.

Name
2. Develop and improve performance skills in a group setting.

Name
3. Develop understanding and interpretation within the context of music history.

Name
4. Refine and improve technical ability.

Name
5. Demonstrate proper technique and usage.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 151, MUS 160, MUS 161, MUS 162, MUS 170, MUS 172, MUS 180, MUS 181

MUSC 2130 - Jazz Ensemble

General

Subject code	Course Number	Course Title
MUSC	2130	Jazz Ensemble

Description
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.
Repeatable: up to 10 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Improve performance skills.

Name
2. Develop and improve performance skills in a group setting.

Name
3. Develop understanding and interpretation within the context of music history.

Name
4. Refine and improve technical ability.

Name
5. Demonstrate proper technique and usage.

Name
6. Develop and improve improvisation skills.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 163

MUSC 2132 - Percussion Ensemble

General

Subject code	Course Number	Course Title
MUSC	2132	Percussion Ensemble

Description
Study and performance of contemporary percussion ensemble literature. Repeatable: up to 5 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Improve performance skills.

Name
2. Develop and improve performance skills in a group setting.

Name
3. Develop understanding and interpretation within the context of music history.

Name
4. Refine and improve technical ability.

Name
5. Demonstrate proper technique and usage.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 174

MUSC 2151 - An Introduction to World Music, Jazz and Music Research

General

Subject code	Course Number	Course Title
MUSC	2151	An Introduction to World Music, Jazz and Music Research

Description
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. Music majors and minors. Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. This course will cover fundamental concepts and styles associated with world music (ethnomusicology), jazz and popular music, an overview of the Western European tradition, and an intense focus on research and writing about music.

Name
2. Emphasis will be placed on writing skills as they apply to the college experience in general and the world of music education and performance in particular.

Name
3. Students will become acquainted with the diverse ways cultures create and are affected by their respective musical arts.

Name
4. Focus will be on style evolution, forms, genres, composers, literature, and, where appropriate, performers.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 202

MUSC 2210 - Diction I

General

Subject code	Course Number	Course Title
MUSC	2210	Diction I

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Correctly and consistently form vowel and consonant sounds when speaking and singing in multiple languages.

Name
2. Correctly and consistently transcribe texts in multiple languages using the International Phonetic Alphabet.

Name
3. Understand and explain the International Phonetic Alphabets usage and symbols.

Name
4. Develop and apply the concept of lyric diction to singing.

Name
5. Gain fluency, accuracy, and confidence in pronunciation of sung text.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 262

MUSC 2220 - Diction II

General

Subject code	Course Number	Course Title
MUSC	2220	Diction II

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Correctly and consistently form vowel and consonant sounds when speaking and singing in multiple languages.

Name
2. Correctly and consistently transcribe texts in multiple languages using the International Phonetic Alphabet.

Name
3. Understand and explain the International Phonetic Alphabets usage and symbols.

Name
4. Develop and apply the concept of lyric diction to singing.

Name
5. Gain fluency, accuracy, and confidence in pronunciation of sung text.

Name
6. Demonstrate ability to notate song texts according to IPA standards.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 263

MUSC 2240 - Music History and Literature: Antiquity through Baroque

General

Subject code	Course Number	Course Title
MUSC	2240	Music History and Literature: Antiquity through Baroque

Description
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. MUSC majors.

General Education Course
Academic

Learning Outcomes

Name
1. The purpose of the course is to survey the beginning history of music from the earliest ancient times through the Baroque period, ca. 1750.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MUSC1450 Ear Training I, MUSC1460 Music Theory I and MUSC2151 An Introduction to World Music, Jazz and Music Research

Common Course Numbering Crosswalk

Past Course Numbers
MUS 207

MUSC 2310 - Sound and Music Technology

General

Subject code	Course Number	Course Title
MUSC	2310	Sound and Music Technology

Description
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.
MUSC majors.

General Education Course
Academic

Learning Outcomes

Name
1. Demonstrate fundamental knowledge of techniques and practices of music recording and production.

Name
2. Demonstrate ability to properly use computer based technologies to produce and record music.

Name
3. Demonstrate ability to create music recordings.

Name
4. Work with a variety of recording, production, and sound reinforcement tools.

Name
5. Apply basic and mixed editing techniques.

Name
6. Use audio editing and file management techniques.

Name
7. Demonstrate knowledge of music technology vocabulary.

Name
8. Explain and understand the development of various music technologies.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MUSC1460 Music Theory I

Common Course Numbering Crosswalk

Past Course Numbers
MUS 273

MUSC 2451 - Ear Training III

General

Subject code	Course Number	Course Title
MUSC	2451	Ear Training III

Description
Continuation of MUSC 1451, advanced sight singing, dictation.

General Education Course
Academic

Learning Outcomes

Name
1. Count rhythms at sight using the Eastman Counting System.

Name
2. Sing melodies at sight and prepared using Solfege syllables.

Name
3. Write out rhythmic patterns.

Name
4. Write out melodic patterns.

Name
5. Identify and singing intervals.

Name
6. Identify and sing chord / triad qualities.

Name
7. Write out harmonic dictation.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MUSC1451 Ear Training II

Common Course Numbering Crosswalk

Past Course Numbers
MUS 203

MUSC 2452 - Ear Training IV

General

Subject code	Course Number	Course Title
MUSC	2452	Ear Training IV

Description
Continuation of MUS 2451, advanced sight singing, dictation.

General Education Course
Academic

Learning Outcomes

Name
1. Count rhythms at sight using the Eastman Counting System.

Name
2. Sing scales and sequences as assigned for the level.

Name
3. Sing melodies at sight using solfege syllables.

Name
4. Write out rhythmic patterns in both simple and compound meters.

Name
5. Write out melodic patterns in both major and minor tonalities.

Name
6. Identify, label and sing intervals.

Name
7. Identify, label and sing chords and extended harmonic qualities, i.e., V7 and inversions.

Name
8. Write out harmonic progressions in both two- and four-part forms including secondary dominants and modulations.

Name
9. Accurately detect melodic and rhythmic errors in dictation examples.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MUSC2452 Ear Training IV and MUSC2460 Music Theory III

Common Course Numbering Crosswalk

Past Course Numbers
MUS 204

MUSC 2460 - Music Theory III

General

Subject code	Course Number	Course Title
MUSC	2460	Music Theory III

Description
Analysis of Baroque and Classical Music. Vocabulary and syntax of 18th and 19th c. Western art music through study, chordal/formal analysis, and composition.

General Education Course
Academic

Learning Outcomes

Name
1. To learn and apply the vocabulary and syntax of 18th and 19th c. Western art music through study, chordal/formal analysis, and composition.

Name
2. Topics covered include: Two-Voice Eighteenth Century Counterpoint; Fugue; Borrowed Chords; Neapolitan 6th Chords; Augmented 6th Chords; Sonata Form; Rondo Form.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MUSC1461 Music Theory II

Common Course Numbering Crosswalk

Past Course Numbers
MUS 205

MUSC 2461 - Music Theory IV

General

Subject code	Course Number	Course Title
MUSC	2461	Music Theory IV

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. To learn and apply the vocabulary and syntax of late 19th and early 20th c. music through study, micro/macro analysis, and composition.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MUSC2460 Music Theory III

Common Course Numbering Crosswalk

Past Course Numbers
MUS 206

MUSC 2470 - Functional Piano IV

General

Subject code	Course Number	Course Title
MUSC	2470	Functional Piano IV

Description
For music majors preparing for Piano Proficiency Examination. May be taken for unlimited credit.

General Education Course
Academic

Learning Outcomes

Name
1. Keys learned in previous semesters, adding A flat, E flat, and B flat.

Name
2. Secondary dominant chords added to cadence patterns, all inversions.

Name
3. Arpeggios, all inversions.

Name
4. More difficult sight--reading and transpositions.

Name
5. More difficult prepared pieces.

Name
6. Four-part pieces (hymns).

Name
7. Accompany a piece for any instrument on the Mid--Term Recital (required) Score reading and transposition.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): MUSC1472 Functional Piano III

Common Course Numbering Crosswalk

Past Course Numbers
MUS 261

MUSC 2992 - Applied Music I

General

Subject code	Course Number	Course Title
MUSC	2992	Applied Music I

Description
Individual instruction to develop technique, musicianship, performance and improvisational skills, as well as knowledge of significant repertoire. Repeatable: up to 16 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

MUSC 2993 - Workshop in Music

General

Subject code	Course Number	Course Title
MUSC	2993	Workshop in Music

Description
Study, translation, analysis, rehearsal and performance of opera. Repeatable: up to 10 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 251

MUSC 2996 - Topics in Music

General

Subject code	Course Number	Course Title
MUSC	2996	Topics in Music

Description
Emphasis on special areas of music; designed for highly motivated students. Repeatable: unlimited credit.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
MUS 260

NA 101 - Nursing Assistant Theory and Lab

General

Subject code	Course Number	Course Title
NA	101	Nursing Assistant Theory and Lab

Description
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 state certification examination. Requires a C or better to pass.

General Education Course
Technical

Learning Outcomes

Name
1. Identify nursing assistant roles, functions, and responsibilities.

Name
2. Paraphrase the nursing assistant responsibilities in dealing with emergencies.

Name
3. Describe the ethical and legal responsibilities of the nursing assistant.

Name
4. Give examples of a person's rights as a patient.

Name
5. Identify standard precautions and infection control when providing patient care.

Name
6. Identify the key concepts of growth and development.

Name
7. Explain the key concepts of the structures and functions of each body system.

Name
8. Identify key health related needs of the elderly.

Name
9. Summarize the essential purposes of restorative care.

Name
10. Describe the care of the dying and post-mortem care.

Name
11. Use verbal and nonverbal communication skills when providing care.

Name
12. Demonstrate proper body mechanics that will protect both patient & nursing assistant.

Name
13. Demonstrate fundamental technical nursing assistant skills in a safe, professional manner.

NA 115 - Phlebotomist Technician

General

Subject code	Course Number	Course Title
NA	115	Phlebotomist Technician

Description
A special course covering the basic skills involved in phlebotomy and laboratory procedures. The class portion provides the latest information, techniques, skills and overview of equipment used for blood and biological collection and analysis. An introduction to collection techniques is included to prepare students for clinical skills rotations. This entails 60 hours of classroom time and 10 hours of lab time. Course standards are based on the Clinical Laboratory Standards Institute, Needlestick Prevention Act, Joint Commission, 2008 National Safety Goals, OSHA, and CDC.
The second half of the course includes application of skills through 90 hours practicum, providing hands on experiences in a supervised work environment collecting blood specimens from patients at local lab draw facilities. Attendance is MANDATORY. Prepare students for employment and entry level phlebotomist in health care settings. Requires a "C" or a better grade to pass. Upon successful completion of the course, student has the opportunity to test for the ASCP Certification. Consent from the Instructor and Completion of training documentation is required.

General Education Course
Technical

Learning Outcomes

Name
1. Collection and process blood and biological specimens for analysis in a safe manner, while adhering to healthcare regulations and facility protocol.

Name
2. Identify variables that affect procedures and results; take appropriate corrective action when needed.

Name
3. Monitor quality control of specimens and work environment.

Name
4. Perform preventive and corrective maintenance on equipment and instruments; refer to the appropriate vendor for repairs.

Name
5. Demonstrate professional conduct and interpersonal communication skills with patients, laboratory personnel, supervisors, and other healthcare professionals.

Name
6. Uphold exemplary patient care standards.

Name
7. Meet requirements to sit for the Phlebotomist Certification Exam, including 100 clinical hours (10 lab hours + 90 rotation hours) and 100 successful unassisted venipuncture.

NATV 1150G - Introduction to Native American Studies

General

Subject code	Course Number	Course Title
NATV	1150G	Introduction to Native American Studies

Description
This course surveys the significance of Native American Studies through an inter-disciplinary approach to two areas of academic concentration: Indigenous Learning Communities, and Leadership and Building Native Nations.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Students will develop a general understanding of the various concentration areas in Native American Studies throughout the United States.

Name
2. Students will identify the contributions of various academic disciplines to Native American Studies.

Name
3. Students will understand the intricacies and intersections of Indigenous scholarship in Native American Studies.

Name
4. Students will articulate the importance of Native American Studies as a stand-alone discipline in academia.

Name
5. Students will be able to connect community issues in both Native and Non-Native America to concepts taught in Native American Studies.

NCS 131 - General Sciences

General

Subject code	Course Number	Course Title
NCS	131	General Sciences

Description
Designed for Allied Health student to explore the fundamentals of physical and life science. (2+2P)

Learning Outcomes

Name
1. Varies, please see course syllabus.

NGEC 133 - Natural Gas Engine Repair Technology

General

Subject code	Course Number	Course Title
NGEC	133	Natural Gas Engine Repair Technology

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

NGEC 175 - Natural Gas Compressions Technology I

General

Subject code	Course Number	Course Title
NGEC	175	Natural Gas Compressions Technology I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Identify and analyze the re-usability of basic compressor parts.

Name
2. Accurately diagnose failure of key core components of basic compressors.

Name
3. Identify basic preventive maintenance tasks on natural gas compressors.

Name
4. Identify the key concept of troubleshooting of natural gas compressors by applying failure analysis techniques to arrive at the root cause of the failure.

Name
5. Demonstrate safety procedures in the workshop and follow appropriate steps to work with the compressor.

NGEC 185 - Natural Gas Compression Technology II

General

Subject code	Course Number	Course Title
NGEC	185	Natural Gas Compression Technology II

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in NGEC175 Natural Gas Compressions Technology I

NGEC 245 - Natural Gas Engine Management and Control Technology

General

Subject code	Course Number	Course Title
NGEC	245	Natural Gas Engine Management and Control Technology

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

NGEC 246 - Fuel and Emissions Technology

General

Subject code	Course Number	Course Title
NGEC	246	Fuel and Emissions Technology

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

NGEC 295 - Special Topics

General

Subject code	Course Number	Course Title
NGEC	295	Special Topics

Description
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. Natural Gas Engine Compression majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

NURS 146 - Common Health Deviations

General

Subject code	Course Number	Course Title
NURS	146	Common Health Deviations

Description
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.
Restricted to: NURSING majors. (4+6P)

General Education Course
Academic

Learning Outcomes

Name
1. Apply each step of the nursing process as a method of organizing the nursing care for patients with common health deviations.

Name
2. Explain methods the nurse can employ in allowing the patients to assume the right and responsibility for their own care.

Name
3. Incorporate the concepts and principles derived from the biological, developmental, social, and computer sciences and nursing knowledge that relate to the nursing care of patients with common health deviations.

Name
4. Explain the roles and functions of the members of the health care team including ancillary personnel as they relate to the care of patients with common health deviations.

Name
5. Explain the rationale for the performance of the following technical skills: tracheal suctioning; cardiac monitoring; providing nutrition and medications for the patient with a feeding tube; basic wound/ostomy care

Name
6. Recognize the nurses role in establishing therapeutic relationships with patients experiencing common health deviations.

Name
7. Explain the legal responsibilities of the practical nurse as they relate to patients with common health deviations.

Name
8. Selectively critique sources of current literature relevant to the care of patients with common health deviations.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in NURS153 Medication and Dosage Calculation, NURS156 Basic Nursing Theory and Practice, NURS157 Maternal/Child Health Deviations and NURS120 Introduction to Pharmacology, or consent of program director

NURS 150 - Medical Terminology

General

Subject code	Course Number	Course Title
NURS	150	Medical Terminology

Description
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. Grade of C or better.
Crosslist: HIT 150.

General Education Course
Academic

Learning Outcomes

Name
1. Demonstrate proficient interpretation of medical abbreviations.

Name
2. Explain the importance of utilizing medical terms/abbreviations in the medical field.

Name
3. Define medical terms correctly.

Name
4. Interpret medical language including roots, prefixes and suffixes.

Name
5. Pronounce medical terms correctly.

Name
6. Spell medical terms correctly

NURS 153 - Medication and Dosage Calculation

General

Subject code	Course Number	Course Title
NURS	153	Medication and Dosage Calculation

Description
Techniques of dosage calculation for medication and fluid administration. Students must meet SENMC basic skills requirement in mathematics to enroll in this course. Grade of C or better.
Restricted to: NURSING majors.

General Education Course
Academic

Learning Outcomes

Name
1. Utilize the nursing process, clinical judgment, evidenced based information and knowledge from the arts and sciences to provide safe client centered care.

Name
2. Coordinate and collaborate effectively through verbal, nonverbal, and technological means with individuals, families and the interdisciplinary team.

Name
3. Integrate accountability and responsibility for practice within the legal and ethical standards of the nursing profession.

Name
4. Apply the principles of delegation, management and leadership in providing client centered care.

Name
5. Participate in activities that promote professional development and personal growth.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in NURS154 Physical Assessment and NURS156 Basic Nursing Theory and Practice

NURS 154 - Physical Assessment

General

Subject code	Course Number	Course Title
NURS	154	Physical Assessment

Description
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.
Restricted to: NURSING majors.

General Education Course
Academic

Learning Outcomes

Name
1. Discuss the purpose, guidelines, safety factors, and equipment necessary for performing a physical exam.

Name
2. Discuss and demonstrate techniques necessary to facilitate communication to obtain a health history.

Name
3. Identify and demonstrate correct documentation of each body system.

Name
4. Define ethical/legal implications as they relate to documentation and the physical assessment exam.

Name
5. Identify and discuss the nutritional implications as they relate to the physical assessment exam.

Name
6. Recognize key terms, exam techniques, and the anatomy and physiology on the assessment of each body system.

Name
7. Discuss developmental and cultural differences in performing a physical assessment.

Name
8. Identify and discuss components of the nursing process focusing on assessment and beginning to recognize self-care deficits.

Name
9. Identify opportunities to promote self-care assessment within the physical exam.

Name
10. Identify methods by which airing behaviors facilitate the nurse-patient relationship in the performance of a physical assessment.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** NURS153 Medication and Dosage Calculation and NURS156 Basic Nursing Theory and Practice
- **Prerequisite(s):** A grade of C or better in BIOL1130G Introductory Anatomy & Physiology (non majors) or BIOL2210 Human Anatomy and Physiology I for the Health Sciences

NURS 155 - Special Topics

General

Subject code	Course Number	Course Title
NURS	155	Special Topics

Description
Specific subjects to be announced in the Schedule of Classes.
Restricted to: NURSING majors.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

NURS 156 - Basic Nursing Theory and Practice

General

Subject code	Course Number	Course Title
NURS	156	Basic Nursing Theory and Practice

Description
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. Grade of C or better.
Restricted to: NURSING majors.

General Education Course
Academic

Learning Outcomes

Name
1. Describe standards and regulations that apply to nursing and ethical practice.

Name
2. Demonstrate professional attitudes, behaviors and communication skills.

Name
3. Describe the basic principles of the teaching learning process.

Name
4. Provide client centered care with sensitivity and respect for the diversity of human experience.

Name
5. Outline individualized care for clients based on actual client needs accounting for cultural and religious influences that may impact nursing care.

Name
6. Describe roles and responsibilities, scope of practice and values of the interdisciplinary team.

Name
7. Demonstrate the use of the nursing process and learned skills in the provision of safe and effective client care.

Name
8. Select interventions that are evidenced based with providing care.

Name
9. Demonstrate safe performance of basic nursing procedures.

Name
10. Describe standards and regulations that apply to nursing and ethical practice.

Name
11. Identify institutional policies and procedures, health care policies and nation standards in the care of clients.

Name
12. Identify sources of information regarding national standards or policies regarding client care across the lifespan.

Name
13. Demonstrate the use of documents approved abbreviations and standard terminology to record and communicate client information.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): NURS153 Medication and Dosage Calculation and NURS154 Physical Assessment

NURS 157 - Maternal/Child Health Deviations

General

Subject code	Course Number	Course Title
NURS	157	Maternal/Child Health Deviations

Description
This course introduces the student to the concepts and principles of nursing care of the family from conception to adolescence. Utilizing the assessment, analyzing, planning, and implementation phases of the nursing process (the Care map), the student focuses on the supportive-educative nursing system to assist members of the family in meeting self-care requisites and how they are affected by the health deviations common to each developmental level beginning with conception and ending with adolescence. Knowledge gained in theoretical instruction is then applied to the patient care situation. After an introduction to the necessary clinical skills in the campus laboratory setting, students will participate in clinical experiences with the focus on the family from conception to adolescence. The assessment, analysis, planning, and implementation phases of the nursing process are emphasized as a tool to assist patients in meeting universal and developmental self-care requisites. Utilizing the nursing process, the student provides safe, client-centered care to diverse clients and families. Theoretical instruction is applied to client care situations. Students collaborate with clients, families, and the interdisciplinary team in meeting health care needs. Experiences may occur in the physician's office, local health department, day care centers, schools, or the hospital. Grade of C or better required.
Restricted to: NURSING majors.

General Education Course
Academic

Learning Outcomes

Name
1. Determine how values of clients, families and medical personnel impact the involvement of clients in their health care related to maternal/child and pediatric clients.

Name
2. Implement individualized client care utilizing an evidenced based approach related to maternal/child and pediatric clients.

Name
3. Choose health protection, health promotion, and disease prevention strategies in the care of maternal/child and pediatric clients.

Name
4. Apply the scope, risk factors, physiologic processes, and clinical management strategies to maternal/child and pediatric clients.

Name
5. Choose resources for continuity of client care related to maternal/child and pediatric clients.

Name
6. Give examples of significant information to report to other disciplines.

Name
7. Apply the principles of delegation in the provision of client care with maternal/child and pediatric clients.

Name
8. Utilize evidenced based information to implement a plan of care and employ nursing interventions for maternal/child and pediatric clients.

Name
9. Use the principles of ethical practice in the delivery of nursing care for maternal/child and pediatric clients.

Name
10. Apply policies, procedures and standards of care related to maternal/child and pediatric in the provision of client care.

Name
11. Apply nursing interventions to reduce risk of harm to self and others related to maternal/child and pediatric clients.

Name
12. Choose available technology for delivery of nursing care related to maternal/child and pediatric clients.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** NURS210 Pharmacological Requisites of the Childbearing Family
- **Prerequisite(s):** A grade of C or better in NURS153 Medication and Dosage Calculation, NURS154 Physical Assessment and NURS156 Basic Nursing Theory and Practice

NURS 210 - Pharmacological Requisites of the Childbearing Family

General

Subject code	Course Number	Course Title
NURS	210	Pharmacological Requisites of the Childbearing Family

Description
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.
Restricted to: NURSING majors.

General Education Course
Academic

Learning Outcomes

Name
1. Incorporate the values, preferences and expressed needs of maternal/child and pediatric clients in the administration of pharmacotherapeutics to these clients.

Name
2. Apply principles of teaching/learning in education maternal/child and pediatric clients on the use, adverse effects and interactions of pharmacotherapeutic agents.

Name
3. Explain how members of the health care team collaborate in the delivery of pharmacotherapeutics to maternal/child and pediatric clients.

Name
4. Discuss pharmacokinetics and pharmacodynamics of drugs specific to the maternal/child and pediatric client.

Name
5. Apply evidenced based information to the administration of pharmacotherapeutics to maternal/child and pediatric clients.

Name
6. Give examples of policies, procedures and standards of care related to pharmacotherapeutics utilized in the care of maternal/child and pediatric clients.

Prerequisites/Corequisites

No Requirements

NURS 211 - Pharmacological Requisites of Simple Health Deviations

General

Subject code	Course Number	Course Title
NURS	211	Pharmacological Requisites of Simple Health Deviations

Description
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.
Restricted to: NURSING majors.

General Education Course
Academic

Learning Outcomes

Name
1. Identify and discuss each of the major classifications of drugs and drugs within the class, including the pharmacokinetics and pharmacodynamics involved for the following body systems: : Central Nervous System; Immune/ Hematological; Gastrointestinal; Musculoskeletal.

Name
2. Discuss the relationship between the use of pharmaceuticals and the treatment of disease in clients with health deviations.

Name
3. Discuss the importance of client education as it relates to each classification of drug presented, especially in preventing drug-drug and food drug interactions.

Name
4. Describe the role of the nurse in safe medication administration to clients with simple health deviations.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** NURS246 Health Deviations I and NURS258 Psychosocial Requisites: A Deficit Approach
- **Prerequisite(s):** A grade of C or better in BIOL2210C Human Anatomy and Physiology I Lecture & Laboratory, BIOL2225C Human Anatomy and Physiology II Lecture and Laboratory and NURS210 Pharmacological Requisites of the Childbearing Family

NURS 212 - Pharmacological Requisites of Complex Health Deviations

General

Subject code	Course Number	Course Title
NURS	212	Pharmacological Requisites of Complex Health Deviations

Description
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.
Restricted to: NURSING majors.

General Education Course
Academic

Learning Outcomes

Name
1. Apply principles of teaching/ learning in educating clients on the use, adverse effects and interactions of pharmacotherapeutic agents used to treat complex health deviations.

Name
2. Collaborate with members of the health care team in the delivery of pharmacotherapeutics to clients with complex health deviations.

Name
3. Give examples of commonly prescribed drugs used to treat clients with complex health deviations and related pharmacokinetics and pharmacodynamics.

Name
4. Discuss the relationship between the use of pharmacotherapeutics and the treatment of disease in clients with complex health deviations.

Name
5. Identify safety issues and minimize risk potential associated with pharmacotherapeutics.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** NURS256 Health Deviations II and NURS260 Management of Patients with Health Deviations
- **Prerequisite(s):** A grade of C or better in NURS210 Pharmacological Requisites of the Childbearing Family and NURS211 Pharmacological Requisites of Simple Health Deviations

NURS 246 - Health Deviations I

General

Subject code	Course Number	Course Title
NURS	246	Health Deviations I

Description
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. Restricted to: NURSING majors.

General Education Course
Academic

Learning Outcomes

Name
1. Incorporate interventions into the plan of care while remaining aware of the cultural, spiritual and ethical needs of the client (1).

Name
2. Utilize the beginning skills of interpersonal relations in establishing a therapeutic relationship with diverse clients and families. (2).

Name
3. Demonstrates skill in using client care technologies that support safe client care. (2).

Name
4. Demonstrate effective writing skills by using information systems and writing the entire nursing process at a level of 76% or better.

Name
5. Demonstrate clinical judgement and problem solving skills by utilizing the nursing process as a guide in providing nursing care and rationale to clients with simple health deviations.

Name
6. Assist members of the interdisciplinary team in the planning of safe client care and evidence based practice outcomes for clients with simple health deviations.

Name
7. Operate within the ethical and legal responsibilities of nursing and society as they relate to the client with simple health deviations.

Name
8.Utilize knowledge from current research studies and evidence based practice applicable to the care of clients when assessing, analyzing, planning, implementing, and evaluating nursing care.

Name
9.Demonstrate behavior that reflects the values and ethics of the nursing profession.: Integrate the clients value system, culture, or religious beliefs while maintaining a non-judgmental attitude; Select to be respectful and courteous; Share compassion and empathy; Integrate therapeutic interpersonal skills; Integrate genuine concern for the client and his/her welfare; Select discharge planning as one method of preparing the client for self-care; Integrate the concepts of confidentiality and privacy at all times; Share a commitment and ownership to nursing; Promote safety and quality improvement as an advocate of nursing care

Name
10.Demonstrate knowledge of delegation, management, and leadership skills. (4)

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** NURS211 Pharmacological Requisites of Simple Health Deviations and NURS258 Psychosocial Requisites: A Deficit Approach
- **Prerequisite(s):** A grade of C or better in NURS157 Maternal/Child Health Deviations and NURS210 Pharmacological Requisites of the Childbearing Family

NURS 256 - Health Deviations II

General

Subject code	Course Number	Course Title
NURS	256	Health Deviations II

Description
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.
Restricted to: NURSING majors.

General Education Course
Academic

Learning Outcomes

Name
1. Apply each step of the nursing process as a method of organizing the nursing care for patients with complex health deviations.

Name
2. Discuss the patient's health care needs that occur as a result of complex health deviations.

Name
3. Explain methods the nurse can employ in allowing the patient to assume the right and responsibility for his own care.

Name
4. Incorporate the concepts and principles derived from biological, developmental, social, nutritional and computer sciences and nursing knowledge that relate to the nursing care of patients with complex health deviations.

Name
5. Explain the roles and functions of the members of the health care team including ancillary personnel as they relate to the care of patients with complex health deviations.

Name
6. Explain the rational for the performance of the following technical skills : EKG monitoring; Rhythm strip interpretation; Hemodynamic monitoring and interpretation; Tracheal suctioning.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** NURS212 Pharmacological Requisites of Complex Health Deviations and NURS260 Management of Patients with Health Deviations
- **Prerequisite(s):** A grade of C or better in NURS246 Health Deviations I and NURS258 Psychosocial Requisites: A Deficit Approach

NURS 258 - Psychosocial Requisites: A Deficit Approach

General

Subject code	Course Number	Course Title
NURS	258	Psychosocial Requisites: A Deficit Approach

Description
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.
Restricted to: NURSING majors.(2+3P)

General Education Course
Academic

Learning Outcomes

Name
1. Describe the effects of psychosocial deviations on the clients ability to maintain self-care.

Name
2. Describe therapeutic communication and explain how to employ therapeutic interpersonal skills in the nurse-client relationship.

Name
3. Analyze the influence of cultural elements on his/her attitudes and behaviors toward mental health and mental illness.

Name
4. Utilize the nursing process to assist clients experiencing psychosocial health deviations.

Name
5. Identify nursing interventions to meet the safety needs of the client with a psychosocial health deviation.

Name
6. Analyze the legal and ethical issues regarding the client with a psychosocial health deviation.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** NURS211 Pharmacological Requisites of Simple Health Deviations and NURS246 Health Deviations I
- **Prerequisite(s):** A grade of C or better in NURS210 Pharmacological Requisites of the Childbearing Family and NURS246 Health Deviations I

NURS 260 - Management of Patients with Health Deviations

General

Subject code	Course Number	Course Title
NURS	260	Management of Patients with Health Deviations

Description
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.
Restricted to: NURSING majors.

General Education Course
Academic

Learning Outcomes

Name
1. Discuss nursing practice concepts relevant to the practice of professional nursing.

Name
2. Evaluate principles of quality improvement and safety into nursing practice within healthcare organizations and systems.

Name
3. Apply leadership concepts through the application of policies that apply to healthcare delivery.

Name
4. Promote a culture of safety through anticipating and eliminating potentially harmful situations.

Name
5. Collaborate in systems analysis when clinical errors or near misses occur to reduce harm, minimize blame, and encourage transparency.

Name
6. Integrate evidence in determining best clinical practice.

Name
7. Demonstrate basic knowledge of healthcare policy, finance, and regulatory environments, including local, state, national, and global healthcare trends.

Name
8. Use an ethical framework to evaluate the impact of policies of healthcare, especially for venerable populations.

Prerequisites/Corequisites

No Requirements

NUTR 2110 - Human Nutrition

General

Subject code	Course Number	Course Title
NUTR	2110	Human Nutrition

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Evaluate sources of nutrition information for reliability.

Name
2. Identify elements of a nutritious diet.

Name
3. Describe the digestion, transport, and absorption of nutrients.

Name
4. Describe the importance of nutrition in weight control and health.

Name
5. Identify nutritional needs as they relate to the life cycle and performance.

Name
6. Describe behavior modification techniques that promote good health.

Name
7. Evaluate popular nutrition trends for scientific accuracy and effectiveness.

Name
8. Develop skills in the planning and assessing of healthy meal plans.

Name
9. Describe the role of food choices in the development of chronic disease.

Name
10.Describe the role of food in the promotion of a healthful lifestyle.

Common Course Numbering Crosswalk

Past Course Numbers
HNDS 251

NUTR 2120 - Seminar I- The Fields of Dietetics

General

Subject code	Course Number	Course Title
NUTR	2120	Seminar I- The Fields of Dietetics

Description
This course will introduce students to the field experience, careers, and professions in nutrition. This course is required for students pursing a Didactic Program in Dietetics verification statement.
Repeatable: up to 1 credit.
Restricted to: HNDS majors.

General Education Course
Academic

Learning Outcomes

Name
1. Describe career options within the fields of Nutrition Dietetics.

Name
2. Outline the HNDS field experience process.

Name
3. Explain the educational pathways in HNDS.

Name
4. List requirements for admission into the HNDS Dietetics pathway.

Name
5. Begin an HNDS student portfolio.

Name
6. Discuss the importance of personal responsibility accountability

Common Course Numbering Crosswalk

Past Course Numbers
HNDS 201

OATS 101 - Keyboarding Basics

General

Subject code	Course Number	Course Title
OATS	101	Keyboarding Basics

Description
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.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate proper keyboarding techniques.

Name
2. Key the numeric keypad by touch.

Name
3. Type straight copy at a minimum rate of 25 GWAM for 5 minutes with no more than 5 errors using the proper touch method (backspace key not allowed on timed writings).

Common Course Numbering Crosswalk

Past Course Numbers
BOT 101

OATS 102 - Keyboarding: Document Formatting

General

Subject code	Course Number	Course Title
OATS	102	Keyboarding: Document Formatting

Description
Designed to improve keyboarding speed and accuracy; introduce formats of letters, tables and reports. A speed and accuracy competency requirement must be met. Prerequisite(s): OATS 101 or consent of instructor.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate proper keyboarding techniques.

Name
2. Type straight copy at a minimum rate of 35 GWAM for 5 minutes with no more than 5 errors using the proper touch method. To be submitted for credit, timings must have no more than 5 errors (errors are not deducted from gross speed).

Common Course Numbering Crosswalk

Past Course Numbers
BOT 102

OATS 105 - Business English I

General

Subject code	Course Number	Course Title
OATS	105	Business English I

Description
Training and application of the fundamentals of basic grammar, capitalization, punctuation, basic writing, sentence structure, and editing skills.
Repeatable: up to 3 credits.

General Education Course
Technical

Common Course Numbering Crosswalk

Past Course Numbers
BOT 105

OATS 106 - Business Mathematics

General

Subject code	Course Number	Course Title
OATS	106	Business Mathematics

Description
Mathematical applications for business.
Repeatable: up to 3 credits. (2+2P)

General Education Course
Technical

Common Course Numbering Crosswalk

Past Course Numbers
BOT 106

OATS 110 - Records Management

General

Subject code	Course Number	Course Title
OATS	110	Records Management

Description
Principles, methods and procedures for the selection, operation and control of manual and automated records systems.

General Education Course
Technical

Common Course Numbering Crosswalk

Past Course Numbers
BOT 110

OATS 140 - Payroll Accounting

General

Subject code	Course Number	Course Title
OATS	140	Payroll Accounting

Description
Payroll procedures including payroll tax forms and deposits.
Repeatable: up to 3 credits.
Prerequisite(s): ACCT 2110 or OATS 120.

General Education Course
Technical

OATS 150 - Medical Terminology

General

Subject code	Course Number	Course Title
OATS	150	Medical Terminology

Description
Understanding of the basic elements of medical words. Use of medical abbreviations. Same as NURS 150.
Crosslist: NURS 150, AHS 120 and HIT 150.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate proficient interpretation of medical abbreviations.

Name
2. Explain the importance of utilizing medical terms/abbreviations in the medical field.

Name
3. Define medical terms correctly interpret medical language including roots, prefixes and suffixes.

Name
4. Pronounce medical terms correctly.

Name
5. Spell medical terms correctly.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 150

OATS 169 - Spanish Grammar for Business Administration

General

Subject code	Course Number	Course Title
OATS	169	Spanish Grammar for Business Administration

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 169

OATS 170 - Office Communications in Spanish I

General

Subject code	Course Number	Course Title
OATS	170	Office Communications in Spanish I

Description
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.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 170

OATS 171 - Office Communications in Spanish II

General

Subject code	Course Number	Course Title
OATS	171	Office Communications in Spanish II

Description
Develop oral and written communications skills of native or near-native 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.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 171

OATS 191 - Taking Minutes and Proofreading

General

Subject code	Course Number	Course Title
OATS	191	Taking Minutes and Proofreading

Description
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.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 191

OATS 202 - Keyboarding: Document Production

General

Subject code	Course Number	Course Title
OATS	202	Keyboarding: Document Production

Description
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. (2+2P)

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 202

OATS 203 - Office Equipment and Procedures I

General

Subject code	Course Number	Course Title
OATS	203	Office Equipment and Procedures I

Description
Office organization, telephone techniques, equipment and supplies, handling meetings, human relations, mail procedures, and travel.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 203

OATS 207 - Machine Transcription

General

Subject code	Course Number	Course Title
OATS	207	Machine Transcription

Description
Creating office documents using transcribing equipment and word processing software. Emphasis on proofreading, editing and grammar.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 207

OATS 208 - Medical Office Procedures

General

Subject code	Course Number	Course Title
OATS	208	Medical Office Procedures

Description
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.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Introduce the health student to the skills necessary to assist healthcare professionals in the health medical office and/or facility.

Name
2. Provide the health professional skills and techniques necessary to assist in the healthcare setting.

Name
3. Discuss and demonstrate the professional and career responsibilities of an administrative medical assistant.

Name
4. Communicate effectively as a receptionist in the medical office environment.

Name
5. Demonstrate appropriate and effective records management including proper filing procedures, handling medical records and drug and prescription records.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 208

OATS 209 - Business and Technical Communications

General

Subject code	Course Number	Course Title
OATS	209	Business and Technical Communications

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 209

OATS 211 - Information Processing I

General

Subject code	Course Number	Course Title
OATS	211	Information Processing I

Description
Defining and applying fundamental information processing concepts and techniques using the current version of leading software.
Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 211

OATS 218 - Information Processing II

General

Subject code	Course Number	Course Title
OATS	218	Information Processing II

Description
Advanced information processing techniques using current version of leading software.
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 218

OATS 220 - Internship in Business Office Technology

General

Subject code	Course Number	Course Title
OATS	220	Internship in Business Office Technology

Description
Experience in a supervised office position. Student must work at least eight hours per week. Prerequisite(s): sophomore standing and consent of instructor.
Repeatable: for a maximum of 4 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 220

OATS 221 - Internship I

General

Subject code	Course Number	Course Title
OATS	221	Internship I

Description
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. BOT,HIT. majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 221

OATS 222 - Internship II

General

Subject code	Course Number	Course Title
OATS	222	Internship II

Description
Continuation of OATS 221.
Repeatable: up to 6 credits.
OATS & HIT majors.
Graded: S/U.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 222

OATS 228 - Medical Insurance Billing

General

Subject code	Course Number	Course Title
OATS	228	Medical Insurance Billing

Description
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. Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 228

OATS 233 - Advanced Medical Transcription

General

Subject code	Course Number	Course Title
OATS	233	Advanced Medical Transcription

Description
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. Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 233

OATS 239 - Personal Development

General

Subject code	Course Number	Course Title
OATS	239	Personal Development

Description
Development of a marketable, employable office systems person, to include interview, voice, manners, and apparel.

General Education Course
Technical

Common Course Numbering Crosswalk

Past Course Numbers
BOT 239

OATS 240 - Introduction to Individual Taxation

General

Subject code	Course Number	Course Title
OATS	240	Introduction to Individual Taxation

Description
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.

General Education Course
Technical

OATS 241 - Auditing and Business Issues

General

Subject code	Course Number	Course Title
OATS	241	Auditing and Business Issues

Description
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.
Repeatable: up to 3 credits.

General Education Course
Technical

OATS 250 - Electronic Office Systems

General

Subject code	Course Number	Course Title
OATS	250	Electronic Office Systems

Description
Management of the electronic office. Office use of computers, printers, fax machines, copiers, and scanner concepts will be covered.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 250

OATS 255 - Special Topics

General

Subject code	Course Number	Course Title
OATS	255	Special Topics

Description
Specific subjects to be announced in the Schedule of Classes.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 255

OATS 260 - Bookkeeping Simulation Capstone

General

Subject code	Course Number	Course Title
OATS	260	Bookkeeping Simulation Capstone

Description
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. (2+2P)

General Education Course
Technical

OATS 270 - Office Administration Technology Capstone

General

Subject code	Course Number	Course Title
OATS	270	Office Administration Technology Capstone

Description
Refines professional skills learned in the BOT program and ties all BOT coursework together.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Construct professional, error-free business documents that demonstrate appropriate formats and ideas in a clear, concise, and correct written and spoken language.

Name
2. Utilize effective administrative skills to enhance the productive operation of the workplace.

Name
3. Demonstrate professional behaviors and workplace ethics for the professional office environment.

Name
4. Demonstrate proficiency in the use of productivity software in business applications.

Common Course Numbering Crosswalk

Past Course Numbers
BOT 270

OEBT 100 - Building Trades I

General

Subject code	Course Number	Course Title
OEBT	100	Building Trades I

Learning Outcomes

Name
1. Varies, please see course syllabus.

OEBT 104 - Woodworking Skills I

General

Subject code	Course Number	Course Title
OEBT	104	Woodworking Skills I

Learning Outcomes

Name
1. Varies, please see course syllabus.

OEBT 105 - Woodworking Skills II

General

Subject code	Course Number	Course Title
OEBT	105	Woodworking Skills II

Learning Outcomes

Name
1. Varies, please see course syllabus.

OEBT 110 - Blueprint Reading Building Trades

General

Subject code	Course Number	Course Title
OEBT	110	Blueprint Reading Building Trades

Learning Outcomes

Name
1. Varies, please see course syllabus.

OEBT 118 - Math for Building Trades

General

Subject code	Course Number	Course Title
OEBT	118	Math for Building Trades

Learning Outcomes

Name
1. Varies, please see course syllabus.

OEBT 200 - Building Trades II

General

Subject code	Course Number	Course Title
OEBT	200	Building Trades II

Learning Outcomes

Name
1. Varies, please see course syllabus.

OEBT 255 - Special Topics

General

Subject code	Course Number	Course Title
OEBT	255	Special Topics

Learning Outcomes

Name
1. Varies, please see course syllabus.

OEBT 290 - Special Problems in Building Tech

General

Subject code	Course Number	Course Title
OEBT	290	Special Problems in Building Tech

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 101 - Computer Basics

General

Subject code	Course Number	Course Title
OECS	101	Computer Basics

Description
Hands-on instruction to introduce computer use and commonly used software. Graded: S/U.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 105 - Introduction to Information Technology

General

Subject code	Course Number	Course Title
OECS	105	Introduction to Information Technology

Description
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.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 128 - Operating Systems Linux/Unix

General

Subject code	Course Number	Course Title
OECS	128	Operating Systems Linux/ Unix

Description
Installation, configuration, and use of Linux/Unix operating system software and utilities including hardware management, file management, use of command line, and scripting.

General Education Course
Technical

Learning Outcomes

Name
1. Install and maintain Linux operating systems.

Name
2. Locate Help resources in the Linux operating systems.

Name
3. Use the package management utility to administer the Linux operating systems.

Name
4. Explain the fundamental properties of the shell.

Name
5. Administrate Linux operating systems using Command Line Interface (CLI) and Graphic User Interface (GUI).

OECS 192 - C++ Programming I

General

Subject code	Course Number	Course Title
OECS	192	C++ Programming I

Description
Development of skills in programming using the C++ programming language.

General Education Course
Technical

Learning Outcomes

Name
1. Implement programs which employ structured programming techniques.

Name
2. Implement control flow structures.

Name
3. Apply modularization principles by defining and using functions/methods to structure code and improve code reuse and maintainability.

Name
4. Write code utilizing data structures such as arrays, using pointers, and simple classes to provide useful access to, and operations on, data.

Name
5. Use input/output mechanisms to collect user input and display data, including implementing error handling mechanisms to handle invalid input and output operations.

Name
3. Apply modularization principles by defining and using functions/methos to structure code and improve code reused and maintainability.

Name
4. Write code utilizing data structures such as arrays, using pointer, and simple classes to provide useful access to, and operations on data.

Name
5. Use input/output mechanisms to handle invalid input and output operations.

OECS 195 - Java Programming I

General

Subject code	Course Number	Course Title
OECS	195	Java Programming I

Description
Developing of skills in programming using the Java programming language.

General Education Course
Technical

OECS 200 - Accounting on Microcomputers

General

Subject code	Course Number	Course Title
OECS	200	Accounting on Microcomputers

Description
Fundamental accounting principles using popular microcomputer software to include G/L, A/R, A/P, purchase order, billing, inventory, and forecasting modules.

General Education Course
Technical

Learning Outcomes

Name
1. Understand differences and similarities between a manual accounting system and QuickBooks Online.

Name
2. Identify and execute the four levels of operation within QuickBooks: New Company Setup, Lists, Activities, and Reports.

Name
3. Record sales/collections, purchase/payments, inventory, adjusting entries.

Name
4. Set up payroll, record payroll transactions, print paychecks, and view various payroll related reports.

Name
5. Produce a variety of reports and financial statements.

Name
6. Analyze reports to identify and correct errors.

OECS 204 - Linux Operating System

General

Subject code	Course Number	Course Title
OECS	204	Linux Operating System

Description
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. Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 207 - Windows

General

Subject code	Course Number	Course Title
OECS	207	Windows

Description
Covers local installation, configuration of core local services, managing users, and the general local management and maintenance of Windows workstations. Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate how to install Windows.

Name
2. Execute System Utilities.

Name
3. Explain how to manage disks and file systems.

Name
4. Recount the features of user management.

Name
5. Describe Windows security features.

Name
6. Identify the features of user productivity tools and application support.

Name
7. Highlight the steps to complete performance tuning and system recovery.

Name
8. Outline in detail how Microsoft Intune Device Management is utilized.

Name
9. Summarize how to run multiple operating systems inside a virtual machine using Client Hyper-V

Name
10. Summarize Enterprise Computing.

Name
11. Illustrate Remote Access and Client Support processes.

OECS 208 - Internet Applications

General

Subject code	Course Number	Course Title
OECS	208	Internet Applications

Description
Survey of the Internet to include e-mail, file transfer, current search techniques, the World Wide Web and basic Web page development. Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Create projects on Internet topics such as Internet history, Internet Safety, and Internet Applications.

Name
2. Use Web 2.0 tools, email, and search engines.

Name
3. Create a blog and basic web page.

Name
4. Collaborate on two group projects.

Name
5. Design an Internet Guide using a Wiki or a web page.

OECS 209 - Computer Graphic Arts

General

Subject code	Course Number	Course Title
OECS	209	Computer Graphic Arts

Description
Basic graphics composition using computer programs to include editing and manipulating graphic images, clip-art, and printing of pictures. Repeatable: for a maximum of 6 credits under different subtitles listed in the Schedule of Classes.

General Education Course
Technical

Learning Outcomes

Name
1. The student will be able to work with basic concepts, tools, and vocabulary of Adobe Photoshop to create effective visual communication. The student will be able to use selection tools, cloning, copying and pasting, color correction, image restoration, filters, and special effects.

Name
2. Use tools and palettes of Photoshop.

Name
3. Use masks, channels, filters and layer styles.

Name
4. Perform photo retouching and typographic design tasks.

OECS 211 - Word Processing Applications

General

Subject code	Course Number	Course Title
OECS	211	Word Processing Applications

Description
Basic word processing to include composing, editing, formatting, and printing of documents.
Repeatable: under different subtitles listed in the Schedule of Classes for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Create and format various types of documents in Microsoft Word.

Name
2. Customize Microsoft Word documents using clip art, borders, shapes, theme colors, tables, charts, WordArt and font styles.

Name
3. Utilize Microsoft Word's menus and ribbons to perform a variety of tasks.

Name
4. Utilize advanced features in Microsoft Word including: Headers, Footers, Merging, References, and Macros.

OECS 215 - Spreadsheet Applications

General

Subject code	Course Number	Course Title
OECS	215	Spreadsheet Applications

Description
Use of spreadsheets to include graphics and business applications. Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Create and format worksheets/ workbooks using features of Microsoft Excel including chart data, styles, and themes.

Name
2. Utilize formulas and functions to create worksheets suitable for professional and personal purposes.

Name
3. Utilize the advanced function of Excel to create templates, work with multiple worksheet, advanced sorting and filtering and data analysis.

OECS 221 - Internship I

General

Subject code	Course Number	Course Title
OECS	221	Internship I

Description
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.
Repeatable: up to 3 credits.
OECS majors.
Graded: S/U.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 222 - Internship II

General

Subject code	Course Number	Course Title
OECS	222	Internship II

Description
Continuation of OECS 221. Each credit requires specified number of hours of on-the-job work experience.
Repeatable: up to 3 credits.
OECS majors.
Graded: S/U.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 223 - Web Design for Business

General

Subject code	Course Number	Course Title
OECS	223	Web Design for Business

Description
Design and create a website using HTML, CSS, web development tools and industry-recognized software while applying best practices in site management and business web presence.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 230 - Data Communications and Network I

General

Subject code	Course Number	Course Title
OECS	230	Data Communications and Network I

Description
Definition of data communication; survey of hardware applications and teleprocessor software; examination and design of networks.
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Describe the common networking technology including media, topology, protocol and devices.

Name
2. Describe the common networking tools and methodology for network management and troubleshooting.

Name
3. Understand the common security threats and method/technique to protect and ensure network integrity.

OECS 231 - Data Communications and Network II

General

Subject code	Course Number	Course Title
OECS	231	Data Communications and Network II

Description
Installation and application of popular microcomputer network software.
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 234 - Linux Server

General

Subject code	Course Number	Course Title
OECS	234	Linux Server

Description
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.
Repeatable: up to 8 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 245 - Game Programming I

General

Subject code	Course Number	Course Title
OECS	245	Game Programming I

Description
Development of programming skills for games and animation using current programming languages and tools.
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 246 - Game Programming

General

Subject code	Course Number	Course Title
OECS	246	Game Programming

Description
Continuation of OECS 245.
Repeatable: for a maximum of 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 253 - Applied Data Analysis and Management

General

Subject code	Course Number	Course Title
OECS	253	Applied Data Analysis and Management

Description
Applied use of advanced spreadsheet tools for data analysis and database tools for data and information management. Connect emerging topics in business to tools used in analyzing data and making raw data useful for business decision making.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 255 - Special Topics

General

Subject code	Course Number	Course Title
OECS	255	Special Topics

Description
Topics to be announced in the Schedule of Classes.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 261 - Introduction to Networks

General

Subject code	Course Number	Course Title
OECS	261	Introduction to Networks

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Configure routers, switches, and end devices to establish end-to-end connectivity and provide access to local and remote network resources.

Name
2. Explain how physical and data link layer protocols support the operation of Ethernet in a switched network.

Name
3. Create and implement IPv4 and IPv6 addressing schemes.

Name
4. Explain how the upper layers of the OSI and TCP/IP models support network applications.

Name
5. Use security best practices to configure and protect a small network.

Name
6. Troubleshoot connectivity issues in a small network.

Name
2. Master Lab Skills: PC hardware & Software, patch cables, installation of structured cabling; use of test equipment.

Name
3. Master Documentation Skills: maintaining engineering journal; cable management techniques.

Name
4. Master People Skills: working in engineering teams, self and project management, oral exams, presentations.

Name
5. Achieve Awareness and Access: basic technological literacy; awareness of IT careers; preparation for 2 and 4 yr. EE, CS, and IT programs; access to well-paying, learning-oriented jobs; ability to design, install, and maintain internetworks.

OECS 263 - Network Fundamentals

General

Subject code	Course Number	Course Title
OECS	263	Network Fundamentals

Description
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.
Repeatable: up to 4 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 275 - PC Maintenance and Repair II

General

Subject code	Course Number	Course Title
OECS	275	PC Maintenance and Repair II

Description
Continuation of OECS 185.
Repeatable: up to 6 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 280 - Desktop Publishing I

General

Subject code	Course Number	Course Title
OECS	280	Desktop Publishing I

Description
Design and production of publication materials to fill the needs of business communities, using a microcomputer.
Repeatable: for a maximum of 6 credits. Same as OATS 280.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 290 - Computer Technology Capstone

General

Subject code	Course Number	Course Title
OECS	290	Computer Technology Capstone

Description
Refines skills learned in the OECS program. Culminates in a review and practice of advanced software applications.
Repeatable: up to 3 credits.
Restricted to: OECS & OECT majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OECS 299 - Independent Study

General

Subject code	Course Number	Course Title
OECS	299	Independent Study

Description
Specific subjects to be determined based on need.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OEEM 120 L - Emergency Medical Technician Basic Lab

General

Subject code	Course Number	Course Title
OEEM	120 L	Emergency Medical Technician Basic Lab

Description
An entry-level course which prepares students to respond to and provide care for ill or injured patients. It includes an overview of the human body, basic life support, airway management, trauma, medical, environmental emergencies, medical/legal, emergency operations, and other related topics. This is the field/clinical portion of EMT-Basic. It will encompass all required skills for this level of licensure at both state and national levels.
Emergency Medical Services Licensure: After successful completion of the EMT Basic course, students who are 18 years old are eligible to take the National Registry written examination and are eligible to apply for New Mexico State EMT-Basic Licensure. Requires a C or better to pass.

General Education Course
Technical

Learning Outcomes

Name
1. Function as an entry-level EMT as part of a healthcare team.

Name
2. Demonstrate professionalism and cultural sensitivity in healthcare settings.

Name
3. Demonstrate appropriate documentation and record keeping.

Name
4. Perform an appropriate patient assessment to form an accurate diagnosis.

Name
5. Describe the roles of EMS in the health care system.

Name
6. Demonstrate the professional attributes expected of EMTs.

Name
7. Perform the roles and responsibilities of an EMT with regard to personal safety and wellness, as well as the safety of others.

Name
8. Perform the duties of an EMT with regard for medical-legal and ethical issues, including functioning under medical direction and within the scope of practice.

Name
9. Proficiently perform skills and procedures for an entry level EMT.

Name
10. Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients.

Name
11. Identify the need for and perform immediately life-saving interventions to manage a patients airway, breathing, and circulation.

Name
12. Assess and manage patients of all ages with a variety of complaints, medical conditions, and traumatic injuries.

Name
13. Apply principles of emergency medical services operations, including considerations in ambulance and air medical transportation, multiple casualty incidents, gaining access to and extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): OEEM101 CPR for the Health Care Professionalor current BLS certification, OEEM1202425 Emergency Medical Technician Basic, OEEM121 Emergency Medical Technician Basic Field/Clinical and OEEM153 Introduction to Anatomy and Physiology for the EMS Provider

OEEM 150 L - Emergency Medical Technician Intermediate Lab

General

Subject code	Course Number	Course Title
OEEM	150 L	Emergency Medical Technician Intermediate Lab

Description
Emergency Medical Services (EMS) professionals such as Emergency Medical Technicians (EMT) provide pre-hospital emergency care to individuals who experience a sudden illness, injury, or trauma. They work under protocols approved by a physician medical director to recognize, assess, and manage medical emergencies and transport critically ill or injured patients to acute health care facilities such as hospitals. They are employed by hospitals, ambulance services, fire departments, police departments, and other agencies that have a public safety component as their missions. The EMS curriculum (OEEM) follows national standards and the New Mexico Joint Organization of Education (JOE) requirements.
Emergency Medical Services Licensure: After successful completion of the EMT Basic course, students who are 18 years old are eligible to take the National Registry written examination and are eligible to apply for New Mexico State EMT-Intermediate/Advance Licensure.
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.

General Education Course
Technical

Learning Outcomes

Name
1. Describe the roles, responsibilities, and scope of practice of the Emergency Medical Technician - Intermediate as it relates to the health care system.

Name
2. Evaluate occupational exposures, environmental safety hazards, high-risk situations, and emergency responses related to health care professions.

Name
3. Apply anatomy and physiology principles to patient care across the lifespan in emergency situations.

Name
4.Demonstrate ability to gather and document patient information including history, patient assessment, and condition.

Name
5. Practice critical thinking, soft skills, and professionalism when communicating with and/or instructing patients or non-healthcare personnel on first aid procedures.

Name
6. Demonstrate collaborative communication and teamwork when working in emergency settings.

Name
7. Prepare a plan of care based on needs of patient; considering condition, patient history and assessment, and emergency procedures.

OEEM 101 - CPR for the Health Care Professional

General

Subject code	Course Number	Course Title
OEEM	101	CPR for the Health Care Professional

Description
This course is designed for healthcare providers and trained first responders who provide care to patients in a wide variety of settings or by those in a healthcare training program. 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. Requires a C or better to pass.
Upon successful completion, students will receive an AHA BLS Provider course completion card, valid for two years

General Education Course
Technical

Learning Outcomes

Name
1. Describe the importance of high-quality CPR and its impact on survival.

Name
2. Describe all of the steps of the Chains of Survival and apply the BLS concepts of the Chains of Survival.

Name
3. Recognize the signs of someone needing CPR.

Name
4. Perform high-quality CPR for adults, children, and infants.

Name
5. Describe the importance of early use of an AED and demonstrate its use.

Name
6. Provide effective ventilation by using a barrier device.

Name
7. Describe the importance of teams in multirescuer resuscitation and perform as an effective team member during multirescuer CPR.

Name
8. Describe the technique for relief of foreign-body airway obstruction (choking) for an adult, a child, and an infant.

OEEM 103 - Heartsaver First Aid/CPR

General

Subject code	Course Number	Course Title
OEEM	103	Heartsaver First Aid/CPR

Description
This course utilizes the American Heart Association Heartsaver First Aid CPR AED guidelines and is geared towards anyone with little or no medical training who needs a course completion card for their job, regulatory (e.g., OSHA), or other requirements or anyone who wants to be prepared for an emergency in any setting. Students learn how to identify and respond to airway, circulation and basic first aid emergencies, to include use of a SAED and accessing the EMS system. Requires a C or better to pass.
Upon successful completion, students will receive an AHA Heartsaver course completion card, valid for two years.

General Education Course
Technical

Learning Outcomes

Name
1. Describe how high-quality CPR improves survival.

Name
2. Explain the concepts of the Chain of Survival.

Name
3. Recognize when someone needs CPR.

Name
4. Perform high-quality CPR for adults, children, and infants.

Name
5. Use an AED on an adult, child, and an infant.

Name
6. Describe when and how to help a choking adult, child, and infant.

Name
7. Give effective breaths by using mouth-to-mask for adult, child and infant.

Name
8. Describe the techniques that help prevent drowning emergencies.

Name
9. Describe how to help someone with drug overdose emergencies.

Name
10. List the priorities, roles, and responsibilities of first aid rescuers.

Name
11. Describe the key steps in first aid.

Name
12. Describe the assessment and first aid actions for the following life-threatening conditions: heart attack, difficulty breathing, choking, severe bleeding, shock, and stroke.

Name
13. Recognize and care for common illnesses and injuries.

Name
14. Recognize and care for bleeding emergencies.

Name
15. Describe how to prevent illness and injuries.

Name
16. Recognize the legal aspect that applies to first aid rescuers.

OEEM 115 - First Responder Prehospital Professional

General

Subject code	Course Number	Course Title
OEEM	115	First Responder Prehospital Professional

Description
This course provides instruction and laboratory experiences to prepare students to assist in workplace medical and trauma emergencies, in non-transport situations or industrial settings. Some fire and law enforcement require First Responder certification as minimum requirement for employment.
Emergency Medical Services Licensure: After successful completion of the EMT Basic course, students who are 18 years old are eligible to take the National Registry written examination and are eligible to apply for New Mexico State EMR Licensure. Requires a C or better to pass.

General Education Course
Technical

Learning Outcomes

Name
1. Recognize and respond to medical and trauma emergencies in infant, child or adult.

Name
2. Recognize and respond to situations requiring cardio-pulmonary resuscitation.

Name
3. Recognize and respond to choking situations for adult, child, and infant.

Name
4. Recognize the priority of scene safety for self, crew and patient with primary assessment, treat life threats and when appropriate do a secondary assessment and make needed adjustments to patient treatment.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in OEEM101 CPR for the Health Care Professional or current BLS certification

OEEM 121 - Emergency Medical Technician Basic Field/Clinical

General

Subject code	Course Number	Course Title
OEEM	121	Emergency Medical Technician Basic Field/ Clinical

Description
An entry-level course which prepares students to respond to and provide care for ill or injured patients. It includes an overview of the human body, basic life support, airway management, trauma, medical, environmental emergencies, medical/legal, emergency operations, and other related topics. This is the field/clinical portion of EMT-Basic. It will encompass all required skills for this level of licensure at both state and national levels.
Emergency Medical Services Licensure: After successful completion of the EMT Basic course, students who are 18 years old are eligible to take the National Registry written examination and are eligible to apply for New Mexico State EMT-Basic Licensure. Requires a C or better to pass.

General Education Course
Technical

Learning Outcomes

Name
1. Function as an entry-level EMT as part of a healthcare team.

Name
2. Demonstrate professionalism and cultural sensitivity in healthcare settings.

Name
3. Demonstrate appropriate documentation and record keeping.

Name
4. Perform an appropriate patient assessment to form an accurate diagnosis.

Name
5. Describe the roles of EMS in the health care system.

Name
6.Demonstrate the professional attributes expected of EMTs.

Name
7. Perform the roles and responsibilities of an EMT with regard to personal safety and wellness, as well as the safety of others.

Name
8. Perform the duties of an EMT with regard for medical-legal and ethical issues, including functioning under medical direction and within the scope of practice.

Name
9. Proficiently perform skills and procedures for an entry level EMT.

Name
10.Apply principles of anatomy, physiology, pathophysiology, life-span development, and therapeutic communications to the assessment and management of patients.

Name
11.Identify the need for and perform immediately life-saving interventions to manage a patients airway, breathing, and circulation.

Name
12.Assess and manage patients of all ages with a variety of complaints, medical conditions, and traumatic injuries.

Name
13.Apply principles of emergency medical services operations, including considerations in ambulance and air medical transportation, multiple casualty incidents, gaining access to and extricating patients, hazardous materials incidents, and responding to situations involving weapons of mass destruction.

Prerequisites/Corequisites

Free Form Requirements

Corequisite(s): OEEM101 CPR for the Health Care Professional or current BLS certification, OEEM1202425 Emergency Medical Technician Basic, OEEM120 L Emergency Medical Technician Basic Lab and OEEM153 Introduction to Anatomy and Physiology for the EMS Provider

OEEM 151 - Emergency Medical Technician Intermediate Field/Clinical

General

Subject code	Course Number	Course Title
OEEM	151	Emergency Medical Technician Intermediate Field/Clinical

Description

Emergency Medical Services (EMS) professionals such as Emergency Medical Technicians (EMT) provide pre-hospital emergency care to individuals who experience a sudden illness, injury, or trauma. They work under protocols approved by a physician medical director to recognize, assess, and manage medical emergencies and transport critically ill or injured patients to acute health care facilities such as hospitals. They are employed by hospitals, ambulance services, fire departments, police departments, and other agencies that have a public safety component as their missions. The EMS curriculum (OEEM) follows national standards and the New Mexico Joint Organization of Education (JOE) requirements.
Emergency Medical Services Licensure: After successful completion of the EMT Basic course, students who are 18 years old are eligible to take the National Registry written examination and are eligible to apply for New Mexico State EMT-Intermediate/Advance Licensure.
Patient care experience provided through assigned shifts in the hospital and/or ambulance setting. Requires a C or better to pass.

General Education Course

Technical

Learning Outcomes

Name
1. Describe the roles, responsibilities, and scope of practice of the Emergency Medical Technician - Intermediate as it relates to the health care system.

Name
2. Evaluate occupational exposures, environmental safety hazards, high-risk situations, and emergency responses related to health care professions.

Name
3. Apply anatomy and physiology principles to patient care across the lifespan in emergency situations.

Name
4. Demonstrate ability to gather and document patient information including history, patient assessment, and condition.

Name
5. Practice critical thinking, soft skills, and professionalism when communicating with and/or instructing patients or non-healthcare personnel on first aid procedures.

Name
6. Demonstrate collaborative communication and teamwork when working in emergency settings.

Name
7. Prepare a plan of care based on needs of patient: considering condition, patient history and assessment, and emergency procedures.

OEEM 153 - Introduction to Anatomy and Physiology for the EMS Provider

General

Subject code	Course Number	Course Title
OEEM	153	Introduction to Anatomy and Physiology for the EMS Provider

Description

This course integrates diseases and disorders within each body system to maximize learning. Easy-to-understand language and numerous illustrations make the course ideal for learners in an introductory anatomy and physiology course with little or no science background or learners continuing their medical education. Highlights and class discussions that emphasize clinical applications help keep the material interesting and new. A review of Medical Terminology in each chapter helps fine tune medical language skills. Infection Control and Standard Precautions chapter emphasizes the importance of maintaining health and safety in the health

care work environment. This course approaches the learning of anatomy and physiology through a “Systems Approach” which provides a good, basic understanding of the subject. The course utilizes case studies, discussions and various other methods to help the student understand the relationship of anatomy and physiology to the patient in the medical setting. This course will also assist the student in developing a better understanding and interest in the medical field. Requires a C or better to pass.

General Education Course
Technical

Learning Outcomes

Name
1. Analyze the relationship between structure and function within each body system.

Name
2. Demonstrate an understanding of how each system helps to maintain homeostasis.

Name
3. Build an anatomical/physiological vocabulary that is essential to success in this course and in future careers in healthcare.

Name
4. Demonstrate an understanding of human development and apply that knowledge to the healthcare setting.

Name
5. Apply the scientific method when thinking and learning about human anatomy and physiology.

OEEM 155 - Special Topics

General

Subject code	Course Number	Course Title
OEEM	155	Special Topics

Description
Specific topics to be listed in Schedule of Classes. Repeatable: for a maximum of 10 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OEEM 177 - Emergency Medical Services Instructor

General

Subject code	Course Number	Course Title
OEEM	177	Emergency Medical Services Instructor

Description
This course provides instructor candidates with the basic training and information needed to become an instructor for any of NAEMT's continuing education courses.Theory of student learning, methodology, instructional components, evaluation, and course coordination for the EMS profession. Requires a C or better to pass.
Completion of the NAEMT Instructor Preparation Course, along with successful completion of the provider course and a monitored teach-back for the NAEMT program that you wish to teach, is required to be recognized as an NAEMT instructor.

General Education Course
Technical

Learning Outcomes

Name
1. Overview of NAEMT's continuing education programs and administrative policies.

Name
2. Adult education and learning methodologies.

Name
3. Best practices for NAEMT continuing education courses, and classroom management.

Name
4. Focusing on best practices in online education and introduction to simulation concepts.

Name
5. Ensures that instructor candidates understand the unique educational principles of NAEMT's continuing education courses.

OEEM 201 - Human Pathophysiology

General

Subject code	Course Number	Course Title
OEEM	201	Human Pathophysiology

Description
Overview of anatomy and physiology. Emphasis on human body pathophysiology including a medical illness component. Requires a C or better to pass.

General Education Course
Technical

Learning Outcomes

Name
1. Understand principles of human anatomy and physiology.

Name
2. Understand human pathological processes.

Name
3. Demonstrates understanding of human life span development.

Name
4. Uses appropriate written or electronic tools to effectively document the essential elements of patient care and transport.

Name
5. Understands the interrelationships among organ systems within the human body.

Name
6. Recognizes conditions that exist in the human body which cause deviations from homeostasis.

OEEM 206 - Introduction to Advanced Prehospital Care

General

Subject code	Course Number	Course Title
OEEM	206	Introduction to Advanced Prehospital Care

Description
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 ride-along with ambulance and dispatch observation. Requires a C or better to pass. Consent of instructor required.
Restricted to: OEEM majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OEEM 207 - Introduction to Pharmacology

General

Subject code	Course Number	Course Title
OEEM	207	Introduction to Pharmacology

Description
Drug actions, factors modifying drugs and dosages: characteristics of drug effects, and drug history and dosages. Prehospital protocol, transport, and common patient prescription medications. Requires a C or better to pass.
Restricted to: OEEM majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OEEM 210 - Cardiac Rhythm Interpretation

General

Subject code	Course Number	Course Title
OEEM	210	Cardiac Rhythm Interpretation

Description
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.
Restricted to: OEEM majors.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in OEEM201 Human Pathophysiology, OEEM206 Introduction to Advanced Prehospital Care and OEEM207 Introduction to Pharmacology

OEEM 218 - Pediatric Advance Life Support for the Healthcare Profession

General

Subject code	Course Number	Course Title
OEEM	218	Pediatric Advance Life Support for the Healthcare Profession

Description

Taught using the American Heart Association guidelines for course completion. The PALS Provider Course aims to improve outcomes for pediatric patients by preparing healthcare providers to effectively recognize and intervene in patients with respiratory emergencies, shock, and cardiopulmonary arrest by using high-performance team dynamics and high-quality individual skills. The course includes a series of case scenario practices with simulations that reinforce important concepts. Upon successful completion, students will receive an AHA PALS Provider course completion card, valid for two years.
Graded S/U.

General Education Course

Technical

Learning Outcomes

Name
1. Identify the scientific basis for PALS treatment recommendations based on the current science guidelines.

Name
2. Perform prompt, high-quality BLS, including prioritizing early chest compressions and integrating early AED use.

Name
3. Apply the BLS, Primary, and Secondary Assessment sequence for a systematic approach to the evaluation of pediatric emergencies.

Name
4. Model effective communication as a member of a high performance team.

Name
5. Recognize the impact of team dynamic on overall team performance.

Name
6. Perform early management of cardiac arrest until termination of resuscitation or transfer of care, including immediate post-cardiac arrest care.

Name
7. Demonstrate team member behaviors during management of PALS core cases.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in OEEM101 CPR for the Health Care Professional

OEEM 219 - Advance Cardiac Life Support for the Healthcare Provider

General

Subject code	Course Number	Course Title
OEEM	219	Advance Cardiac Life Support for the Healthcare Provider

Description

Taught using the American Heart Association guidelines for course completion. The course incorporates students to direct or participate in the management of cardiopulmonary arrest or other cardiovascular emergencies and for personnel in emergency response. This course is for those who are proficient in performing BLS and ACLS skills, reading and interpreting ECGs, understanding ACLS pharmacology; and who regularly lead or participate in emergency assessment and treatment of prearrest, arrest, or postarrest patients. Upon successful completion, students will receive an AHA ACLS Provider course completion card, valid for two years.

General Education Course

Technical

Learning Outcomes

Name
1. Identify key science that drives increased patient survival.

Name
2. Apply the BLS, Primary, and Secondary Assessment sequence for a systematic evaluation of adult patients.

Name
3. Perform prompt, high-quality BLS, including prioritizing early chest compressions and integrating early AED use.

Name
4. Recognize and perform early management of respiratory arrest.

Name
5. Demonstrate effective and safe use of manual defibrillator.

Name
6. Discuss early recognition and management of acute coronary syndrome, including appropriate disposition.

Name
7. Identify early recognition and management of stroke, including appropriate disposition.

Name
8. Model effective communication as a member of a high performance team.

Name
9. Recognize the impact of team dynamic on overall team performance.

Name
10. Recognize cardiac arrest.

Name
11.Perform early management of cardiac arrest until termination of resuscitation or transfer of care.

Name
12.Recognize bradyarrhythmia's that may result in a cardiac arrest or complicated resuscitative outcome.

Name
13.Perform early management of bradyarrhythmia's that may result in cardiac arrest or complicate resuscitation.

Name
14.Recognize tachyarrhythmias that may result in a cardiac arrest or complicated resuscitative outcome.

Name
15.Perform early management of tachyarrhythmias that may result in cardiac arrest or complicate resuscitation.

Name
16.Perform early management of cardiac arrest until termination of resuscitation or transfer of care, including immediate post-cardiac arrest care.

Name
17.Demonstrate team member behaviors according to roles during megacode cases.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in OEEM101 CPR for the Health Care Professional

OEEM 1202425 - Emergency Medical Technician Basic

General

Subject code	Catalog Code	Course Number	Course Title
OEEM	OEEM 120	1202425	Emergency Medical Technician Basic

Description
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. Restricted to: OEEM majors.

General Education Course
Technical

OEEM150 2425 - Emergency Medical Technician Intermediate

General

Subject code	Catalog Code	Course Number	Course Title
OEEM	OEEM 150	150 2425	Emergency Medical Technician Intermediate

Description
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. Prerequisite(s): Current EMT-basic license, pretest and consent of instructor.

General Education Course
Technical

OEET 110 - Basic Electricity and Electronics

General

Subject code	Course Number	Course Title
OEET	110	Basic Electricity and Electronics

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Explain electrical theory.

Name
2. Describe the construction of electrical circuits.

Name
3. Describe some of the practical applications of basic electricity and electronics.

OEET 120 - Basic Motor Controls

General

Subject code	Course Number	Course Title
OEET	120	Basic Motor Controls

Description
Developing schematics and wiring simple manual and electromechanical control devices.

General Education Course
Technical

Learning Outcomes

Name
1.Explain the basics DC Generator Operations.

Name
2.Describe how AC and DC Motors are used in industrial environments.

Name
3.Measure Wound-Rotor motor performance characteristics.

Name
4.Control the Output Voltage and the frequency of an Alternator

Name
5.Understanding of Alternator Synchronization Methods.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in OEET110 Basic Electricity and Electronics

OEET 151 - Electrical Apprenticeship I

General

Subject code	Course Number	Course Title
OEET	151	Electrical Apprenticeship I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OEET 152 - Electrical Apprenticeship II

General

Subject code	Course Number	Course Title
OEET	152	Electrical Apprenticeship II

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in OEET151 Electrical Apprenticeship I

OEET 153 - Electrical Apprenticeship III

General

Subject code	Course Number	Course Title
OEET	153	Electrical Apprenticeship III

Description
Various electrical measuring devices will be covered in detail. Inductance, transformers, capacitance, and simple motors will be studied.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in OEET152 Electrical Apprenticeship II

OEET 154 - Electrical Apprenticeship IV

General

Subject code	Course Number	Course Title
OEET	154	Electrical Apprenticeship IV

Description
Theory and application of three-phase transformers and autotransformers. Electrical distribution using switchboards, panelboards, and circuit breakers.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in OEET153 Electrical Apprenticeship III

OEET 205 - National Electric Code

General

Subject code	Course Number	Course Title
OEET	205	National Electric Code

Description
Interpretation and application of the National Electric Code.

General Education Course
Technical

Learning Outcomes

Name
1. Complete an Introduction to the National Electric Code: Explain the purpose and history of the National Electrical Code (NEC); Describe the layout of the NEC.; Explain how to navigate the NEC.; Describe the purpose of the National Electrical Manufacturers Association (NEMA) and the National Fire Protection Association (NFPA); Explain the role of testing laboratories.

Name
2. Understand Residential Wiring And The National Electric Code: Identify requirements and the NEC Code requirements for them receptacle; Identify various requirements for switches and lighting; Discuss the requirements for installing cabling systems in a residence; Demonstrate techniques for making inquiries using NEC; List terms and definitions commonly used in NEC and the electrical trades; Use NEC as a reference; List and identify various tables in the NEC.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in OEET110 Basic Electricity and Electronics

OEET 251 - Electrical Apprenticeship V

General

Subject code	Course Number	Course Title
OEET	251	Electrical Apprenticeship V

Description
Commercial/industrial applications for electricians. Blueprint interpretation, commercial construction types and processes, wiring methods, wiring materials, and motor controls.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in OEET154 Electrical Apprenticeship IV

OEET 252 - Electrical Apprenticeship VI

General

Subject code	Course Number	Course Title
OEET	252	Electrical Apprenticeship VI

Description
In-depth commercial applications to include commercial/industrial service calculations, mobile home parks, multi-family dwellings, and commercial fire/security systems.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in OEET251 Electrical Apprenticeship V

OEET 253 - Electrical Apprenticeship VII

General

Subject code	Course Number	Course Title
OEET	253	Electrical Apprenticeship VII

Description
Control devices in commercial/industrial applications; emphasis on logic in-line diagrams, time delay starters, reversing starters, and manual/magnetic solenoids.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in OEET252 Electrical Apprenticeship VI

OEET 254 - Electrical Apprenticeship VIII

General

Subject code	Course Number	Course Title
OEET	254	Electrical Apprenticeship VIII

Description
Miscellaneous topics for the journeyperson electrician to include power distribution/transmission, solid state controls and relays, photoelectric and proximity controls and programmable controllers.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in OEET253 Electrical Apprenticeship VII

OEET 295 - Special Topics

General

Subject code	Course Number	Course Title
OEET	295	Special Topics

Description
Topics to be announced in the Schedule of Classes.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OEGR 221 - Cooperative Experience I

General

Subject code	Course Number	Course Title
OEGR	221	Cooperative Experience I

Description
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.
Graded: S/U.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

OETS 100 - Industrial/Construction Safety

General

Subject code	Course Number	Course Title
OETS	100	Industrial/Construction Safety

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Explain the negative effects that the Industry can have on the environment when Safety and Environmental Regulations are not followed.

Name
2. Describe the various types of physical, chemical, biological, ergonomic as well as plant specific hazards associated with the any Industry.

Name
3. Apply terms used when describing the various hazards.

Name
4. Define the general types of Engineering Controls, Administrative Controls, Permitting Systems and Personal Protective Equipment used to minimize the exposure to the various hazards.

Name
5. Explain the federal and state regulations which govern the Industrial Industry.

OETS 102 - Career Readiness Certification Preparation

General

Subject code	Course Number	Course Title
OETS	102	Career Readiness Certification Preparation

Description
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.
Repeatable: up to 3 credits.
Graded: S/U.

General Education Course
Technical

Learning Outcomes

Name
1. Graduates will demonstrate competence in the use of general and highly specialized tools and equipment.

Name
2. Graduates will read and comprehend technical information and materials from printed and electronic sources relevant to the diagnosis and repair of automotive systems.

Name
3. Graduates will apply technical knowledge and skills to repair, service, and maintain various types of automobiles.

OETS 103 - Technical Career Skills

General

Subject code	Course Number	Course Title
OETS	103	Technical Career Skills

Description
This course will be project-based and will encompass writing, presentation, math, reading, and critical thinking skills applied in a technical environment.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OETS 104 - Basic Mathematics for Technicians

General

Subject code	Course Number	Course Title
OETS	104	Basic Mathematics for Technicians

Description
Fundamental mathematical concepts and computations including measurement, ratio and proportions, and pre-algebra as it relates to technical programs.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OETS 117 - Writing for Technicians

General

Subject code	Course Number	Course Title
OETS	117	Writing for Technicians

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OETS 118 - Mathematics for Technicians

General

Subject code	Course Number	Course Title
OETS	118	Mathematics for Technicians

Description
Analysis and problem solving of technical problems using measuring instruments and techniques of arithmetic, algebra, geometry, and trigonometry. Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Perform the basic arithmetic operations and be able to solve word problems.

Name
2. Recognize and understand the techniques of measurement in the English and Metric systems.

Name
3. State the laws of exponents and perform basic operations involving powers.

Name
4. Understand and apply concepts of algebra and their use in formulas related to occupational areas of study.

Name
5. Identify and apply geometric terms with particular emphasis on being able to find areas of polygons and circles and volumes of solids.

Name
6. Solve problems involving right triangles using trigonometry.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in CCDM103 N Pre-Algebra or appropriate placement test score

OETS 120 - Business Fundamentals

General

Subject code	Course Number	Course Title
OETS	120	Business Fundamentals

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OETS 255 - Special Topics Technical Studies

General

Subject code	Course Number	Course Title
OETS	255	Special Topics Technical Studies

Description
Topics to be announced in the Schedule of Classes.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

OTEC 1101 - Beginning Keyboarding

General

Subject code	Course Number	Course Title
OTEC	1101	Beginning Keyboarding

Description
Develops proper keyboarding technique to achieve speed and accuracy. A minimum average of 25 wpm on three five-minute timings is required. This course will integrate keyboarding instruction with file management.
Repeatable: up to 3 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate proper keyboarding techniques.

Name
2. Key the numeric keypad by touch.

Name
3. Type straight copy at a minimum rate of 25 GWAM for 5 minutes with no more than 5 errors using the proper touch method (backspace key not allowed on timed writings).

OTEC 1102 - Keyboard Skillbuilding

General

Subject code	Course Number	Course Title
OTEC	1102	Keyboard Skillbuilding

Description
Continues development of speed and accuracy. A minimum average speed of 35 wpm on three five-minute timings is required.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate proper keyboarding techniques.

Name
2. Type straight copy at a minimum rate of 35 GWAM for 5 minutes with no more than 5 errors using the proper touch method. To be submitted for credit, timings must have no more than 5 errors (errors are not deducted from gross speed).

OTEC 1175 - Computers in the Medical Office

General

Subject code	Course Number	Course Title
OTEC	1175	Computers in the Medical Office

Description
Introduces tasks performed in a medical office utilizing a computerized software package, including scheduling appointments, gathering and recording patient information, recording diagnoses and procedures, billing patients, filing insurance claims, recording payments and preparing reports.
Repeatable: up to 3 credits.

OTEC 2270 - Medical Transcription

General

Subject code	Course Number	Course Title
OTEC	2270	Medical Transcription

Description
Reinforces medical terminology and develops proficiency in transcribing medical reports, forms, and other types of medical communications using correct format, grammar, punctuation, number, abbreviation, symbol, and metric measurement rules.

General Education Course
Technical

Learning Outcomes

Name
1. Transcribe a variety of medical reports, letters, and memorandums according to the American Association for Medical Transcription (AAMT) and Joint Commission on Accreditation of Healthcare Organizations (JCAHO) guidelines.

Name
2. Apply correct grammar, word usage, and format or style.

Name
3. Use punctuation, capitalization, abbreviations, and numbers correctly.

Name
4. Demonstrate mastery of terminology, spelling, editing/ proofreading, and transcribing skills.

PHED 1110 - Dance

General

Subject code	Course Number	Course Title
PHED	1110	Dance

Description
Individual sections vary based on topic content; "audience"; type or level of participation.
Repeatable: up to 6 credits.

General Education Course
Activity

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
P E 128

PHED 1230 - Individual Sport

General

Subject code	Course Number	Course Title
PHED	1230	Individual Sport

Description
Individual sections vary based on topic content; "audience"; type or level of participation.
Repeatable: up to 6 credits.

General Education Course
Activity

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
P E 147, P E 148, P E 150

PHED 1290 - Team Sport

General

Subject code	Course Number	Course Title
PHED	1290	Team Sport

Description
Individual sections vary based on topic content; "audience"; type or level of participation.
Repeatable: up to 6 credits.

General Education Course
Activity

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
P E 112, P E 113, P E 114, P E 115, P E 117, P E 166

PHED 1310 - Swim I

General

Subject code	Course Number	Course Title
PHED	1310	Swim I

Description
Individual sections vary based on topic content; "audience"; type or level of participation.

General Education Course
Activity

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
P E 130

PHED 1320 - Aqua Fit

General

Subject code	Course Number	Course Title
PHED	1320	Aqua Fit

Description
Individual sections vary based on topic content; "audience"; type or level of participation.
Repeatable: up to 6 credits.

General Education Course
Activity

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
P E 131

PHED 1410 - Yoga

General

Subject code	Course Number	Course Title
PHED	1410	Yoga

Description
Individual sections vary based on topic content; "audience"; type or level of participation.
Repeatable: up to 6 credits.

General Education Course
Activity

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
P E 199

PHED 1430 - Pilates

General

Subject code	Course Number	Course Title
PHED	1430	Pilates

Description
Individual sections vary based on topic content; "audience"; type or level of participation.
Repeatable: up to 6 credits.

General Education Course
Activity

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
P E 109

PHED 1510 - Training

General

Subject code	Course Number	Course Title
PHED	1510	Training

Description
Individual sections vary based on topic content; "audience"; type or level of participation.
Repeatable: up to 6 credits.

General Education Course
Activity

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
P E 102, P E 103, P E 127

PHED 1620 - Fitness

General

Subject code	Course Number	Course Title
PHED	1620	Fitness

Description
Individual sections vary based on topic content; "audience"; type or level of participation.
Repeatable: up to 6 credits.

General Education Course
Activity

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
P E 205

PHED 1630 - Career Fitness

General

Subject code	Course Number	Course Title
PHED	1630	Career Fitness

Description
Individual sections vary based on topic content; "audience"; type or level of participation.
Repeatable: up to 10 credits.

General Education Course
Activity

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
P E 104

PHED 1670 - Aerobics

General

Subject code	Course Number	Course Title
PHED	1670	Aerobics

Description
Individual sections vary based on topic content; "audience"; type or level of participation.
Repeatable: up to 6 credits.

General Education Course
Activity

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
P E 129

PHED 1830 - Running

General

Subject code	Course Number	Course Title
PHED	1830	Running

Description
Individual sections vary based on topic content; "audience"; type or level of participation.
Repeatable: up to 4 credits.

General Education Course
Activity

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
P E 173

PHED 1910 - Outdoor Experience

General

Subject code	Course Number	Course Title
PHED	1910	Outdoor Experience

Description
Specific subjects to be announced in the Schedule of Classes. Each offering will carry appropriate subtitle.
Repeatable: up to 6 credits.

General Education Course
Activity

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
P E 263

PHED 2996 - Topics in Physical Education

General

Subject code	Course Number	Course Title
PHED	2996	Topics in Physical Education

Description
Specific subjects to be announced in the Schedule of Classes. Each offering will carry appropriate subtitle.
Repeatable: up to 6 credits.

General Education Course
Activity

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
P E 270

PHIL 1115G - Introduction to Philosophy

General

Subject code	Course Number	Course Title
PHIL	1115G	Introduction to Philosophy

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Comprehend and differentiate between various philosophical approaches to questions within fields such as metaphysics, epistemology, ethics, and aesthetics.

Name
2. Critically evaluate various philosophical arguments and positions.

Common Course Numbering Crosswalk

Past Course Numbers
PHIL 101G

PHIL 1120G - Logic, Reasoning, and Critical Thinking

General

Subject code	Course Number	Course Title
PHIL	1120G	Logic, Reasoning, and Critical Thinking

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1.Comprehend components of arguments.

Name
2.Acquire a general understanding of the essential logical concepts needed for argument analysis, such as validity, soundness, deduction, and induction.

Name
3.Critically assess arguments with an aim toward identifying what constitutes effective and reasonable argument strategies.

Name
4.Learn to identify common logical fallacies.

Name
5.Apply knowledge of argumentation principles to philosophical and scholarly texts.

Common Course Numbering Crosswalk

Past Course Numbers
PHIL 211G

PHIL 1140G - Philosophy and World Religions

General

Subject code	Course Number	Course Title
PHIL	1140G	Philosophy and World Religions

Description
A philosophical enquiry into the religious life; an introduction to philosophical questions about religions focused on consideration of some of the traditional approaches to God and what it means to be religious.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Identify and describe philosophical theories regarding religion.

Name
2. Develop and enhance your critical thinking skills, particularly in the evaluation of arguments about the truth or applicability of particular religious or secular viewpoints.

Name
3. Analyze the teachings of world religions by describing their similarities and differences.

Name
4. Explain the philosophical beliefs, practices, and ethical standards of the major world religions as well as emerging religious movements.

Name
5. Explain how each religion evolved historically, philosophically, and spiritually as well as the contemporary ideas and practices each religion.

Common Course Numbering Crosswalk

Past Course Numbers
PHIL 136G

PHIL 1145G - Philosophy, Law, and Ethics

General

Subject code	Course Number	Course Title
PHIL	1145G	Philosophy, Law, and Ethics

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. The aim of this course is to familiarize students with some of the ethical and philosophical issues that arise in connection with laws/legality in general and criminal and constitutional law in the U.S. in particular.

Name
2. It examines issues in moral philosophy, political philosophy, and philosophy of law.

Common Course Numbering Crosswalk

Past Course Numbers
PHIL 100G

PHIL 1155 - Philosophy of Music

General

Subject code	Course Number	Course Title
PHIL	1155	Philosophy of Music

Description
This is an introductory course in the philosophy of music. This course will focus on two general themes. The first will concern the nature of music: What is music? Why is music important? How can we distinguish good music from bad music? The second will reflect upon how specific pieces of music speak to certain traditional philosophical problems, perhaps in a way unique to music. We will draw examples from a wide variety of musical genres, from classical music, gospel, jazz and blues to folk, rock, punk and rap. Students will be encouraged to think philosophically about their preferred musical form.

General Education Course
Academic

Learning Outcomes

Name
1. Understand and articulate some of the leading philosophical theories of music.

Name
2. Justify through philosophical argumentation their own views on issues in the philosophy of music.

Name
3. Through reflection on pieces of music articulate and address their own views on some perennial philosophical issues. A student's success in this class depends on how well he/she meets these goals.

Common Course Numbering Crosswalk

Past Course Numbers
PHIL 124G

PHIL 2110G - Introduction to Ethics

General

Subject code	Course Number	Course Title
PHIL	2110G	Introduction to Ethics

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Differential between various ethical theories, which may include virtue ethics, deontology, and consequentialism.

Name
2. Critically evaluate various ethical theories and positions.

Common Course Numbering Crosswalk

Past Course Numbers
PHIL 223G

PHIL 2230G - Philosophical Thought

General

Subject code	Course Number	Course Title
PHIL	2230G	Philosophical Thought

Description
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.

General Education Course
Area V, Academic

Learning Outcomes

Name
1. Comprehend and differentiate between various philosophical approaches to questions within fields such as metaphysics, epistemology, ethics, and aesthetics.

Name
2. Critically evaluate various philosophical arguments and positions.

Name
3. Identify the differences that characterize the major subfields of philosophy.

Common Course Numbering Crosswalk

Past Course Numbers
PHIL 201G

PHLB 1XXX - Phlebotomy course to create in Coursedog

General

Subject code	Course Number	Course Title
PHLB	1XXX	Phlebotomy course to create in Coursedog

PHLS 1110G - Personal Health & Wellness

General

Subject code	Course Number	Course Title
PHLS	1110G	Personal Health & Wellness

Description
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.
Repeatable: up to 3 credits.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Students will identify, describe and explain human health behaviors and how they are influenced by social structures, institutions, and processes within the contexts of complex and diverse communities. Students should: Develop an understanding of self and the world by examining content and processes used by social and behavioral sciences to discover, describe, explain, and predict human behaviors and social systems.

Name
2. Students will articulate how beliefs, assumptions, and values are influenced by factors such as politics, geography, economics, culture, biology, history, and social institutions. Students should: Enhance knowledge of social and cultural institutions and the values of their society and other societies and cultures in the world.

Name
3. Students will describe ongoing reciprocal interactions among self, society, and the environment. Students should: Understand the interdependent nature of the individual, family/social group, and society in shaping human behavior and determining quality of life.

Name
4. Students will apply the knowledge base of the social and behavioral sciences to identify, describe, explain, and critically evaluate relevant issues, ethical dilemmas, and arguments. Students should: Articulate their role in a global context and develop an awareness and appreciation for diverse value systems in order to understand how to be good citizens who can critically examine and work toward quality of life within a framework of understanding and justice

Common Course Numbering Crosswalk

Past Course Numbers
PHLS 150G

PHLS 2110 - Foundations of Health Education

General

Subject code	Course Number	Course Title
PHLS	2110	Foundations of Health Education

Description
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. Cannot receive credit for both PHLS 2110 and PHLS 375.

General Education Course
Academic

Learning Outcomes

Name
1. Define health, three levels of prevention, health education and health promotion, and describe the major determinants of health.

Name
2. Describe the 7 major areas of responsibility, major competencies and sub-competencies of a professional health educator and the CHESs possible roles in various community health settings.

Name
3. Describe and examine the historical context and development of the profession of health education.

Name
4. Identify and critique major processes and practices of health education programming.

Name
5. Describe the steps involved in conducting needs assessments, program and intervention planning, implementation, and program evaluation.

Name
6. Identify, examine and describe elected health behavior change theories and models and explore possible applications in health education practice.

Name
7. Describe and discuss the process of community mobilization and building of a community coalition.

Name
8. Identify health issues and describe effective methods/strategies in health education advocacy.

Name
9. Describe and discuss the future trends and issues in the professional preparation and practice of professional health educators.

Name
10. Demonstrate effective and appropriate oral and written communication skills for health education professionals.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PHLS1110G Personal Health & Wellness

Common Course Numbering Crosswalk

Past Course Numbers
PHLS 275

PHLS 2120 - Essentials of Public Health

General

Subject code	Course Number	Course Title
PHLS	2120	Essentials of Public Health

Description
The course will focus on principles and major areas of public health, including ecological and total personal concept of health care system, epidemiological approaches to disease prevention and control.
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Understand the sources of public health data, and how to interpret that information.

Name
2. Access existing health related data.

Name
3. Analyze health related data.

Name
4. Identify populations for health education programs.

Name
5. Incorporate data analysis and principles of community organization.

Name
6. Interpret results from evaluation and research.

Name
7. Infer implications from findings for future health-related activities.

Name
8. Have a basic understanding of health topics faced by various populations.

Common Course Numbering Crosswalk

Past Course Numbers
PHLS 295

PHYS 1111 - Introductory Computational Physics

General

Subject code	Course Number	Course Title
PHYS	1111	Introductory Computational Physics

Description
Introduction to computational techniques for the solution of physics-related problems.

General Education Course
Academic

Learning Outcomes

Name
1. Use computers for visualizing and analyzing data.

Name
2. Apply techniques of structured programming and software development.

Name
3. Trouble shoot and debug programs.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1220G College Algebra, MATH1250G Trigonometry & Pre-Calculus or MATH1511G Calculus and Analytic Geometry I

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 150

PHYS 1112 - Introductory Physics for the Health Sciences

General

Subject code	Course Number	Course Title
PHYS	1112	Introductory Physics for the Health Sciences

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. The objective of the course is to familiarize the student with the concepts and methods used in the underlying physics associated with various Health Science disciplines.

Name
2. The course will demonstrate how the basic principles of mechanics, thermodynamics, electricity, magnetism, electromagnetic waves and optics can be applied to solve particular problems in Health Sciences applications. Introduces the student to selected topics in modern physics including quantum physics, atomic and nuclear physics.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1215 Intermediate Algebra

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 210

PHYS 1115G - Survey of Physics with Laboratory

General

Subject code
PHYS

Course Number
1115G

Course Title
Survey of Physics with Laboratory

Description
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. (3+3P)
Provides lab.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Apply concepts of classical mechanics (such as velocity, acceleration, force, inertia, momentum, torque, work, energy) to simple static and dynamic systems.

Name
2. Apply concepts of thermodynamics (such as heat, temperature, internal energy, entropy) to simple processes.

Name
3. Apply concepts of electricity and magnetism (such as fields, potential, charge conservation, static and dynamic induction) to simple circuits, motors, and other simple electrical contrivances.

Name
4. Apply simple geometric and wave optics in simple situations.

Name
5. Apply quantum theory in simple situations such as the Bohr model of the atom, dual nature of light, atomic spectra.

Name
6. Apply simple concepts of relativity.

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 110G

PHYS 1125G - The Physics of Music

General

Subject code
PHYS

Course Number
1125G

Course Title
The Physics of Music

Description
Introduction for non-science majors to basic concepts, laws, and skills in physics, in the context of a study of sound, acoustics, and music. (3+2P)

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Demonstrate converting units and other aspects of dimensional analysis in the working of numerical problems.

Name
2. Apply basic classical mechanics to static and dynamic fluids, including Archimedes principle and Bernoulli's principle.

Name
3. Apply the general properties of waves to simple models of musical instruments.

Name
4. Demonstrate knowledge of basic operating principles of wind, string, and percussion instruments.

Name
5. Demonstrate knowledge of how objectively measurable properties of sound waves correspond to the perceptions of pitch, loudness, and timbre.

Name
6. Demonstrate understanding of the description of vibrations and waves in terms of Fouriers Theorem and normal modes.

Name
7. Demonstrate understanding of vocalization in terms of physical principles such as resonance and fluid dynamics.

Name
8. Demonstrate understanding of how the ear works.

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 120G

PHYS 1230G - Algebra-Based Physics I

General

Subject code	Course Number	Course Title
PHYS	1230G	Algebra-Based Physics I

Description
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.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Demonstrate converting units and other aspects of dimensional analysis in the working of numerical problems.

Name
2. Apply principles of Newtonian mechanics to predict and account for simple phenomena modeled by the motion of particles in one and two dimensions.

Name
3. Apply principles of Newtonian mechanics to predict and account for simple phenomena modeled by the motion of a rigid body in two dimensions.

Name
4. Apply Newtons theory of gravitation to circular orbits and demonstrate understanding of how Keplers laws of planetary motion provide the empirical foundation for Newtons theory.

Name
5. Apply the mathematics of vectors to the principles of Newtonian mechanics.

Name
6. Apply principles of Newtonian mechanics to the case of static and dynamic incompressible fluids, including Archimedes and Bernoullis principles.

Name
7. Describe the fundamental properties of periodic motion.

Name
8. Explain and apply the basic concepts of sound and wave motion.

Name
9. Explain the basic concepts of heat and thermodynamics.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): PHYS1230L Algebra-based Physics I Laboratory

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 211G

PHYS 1230L - Algebra-based Physics I Laboratory

General

Subject code	Course Number	Course Title
PHYS	1230L	Algebra-based Physics I Laboratory

Description
A series of laboratory experiments associated with the material presented in PHYS 1230.

General Education Course
Area III, Academic

Learning Outcomes

Name
1.Explain the scientific method.

Name
2.Test ideas using modern laboratory equipment.

Name
3.Estimate experimental uncertainties using statistical methods.

Name
4.Use computers to analyze and report laboratory results.

Name
5.Draw appropriate conclusions from quantitative scientific observations.

Name
6.Accurately and clearly communicate the results of scientific experiments.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): PHYS1230G Algebra-Based Physics I

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 211GL

PHYS 1240G - Algebra-Based Physics II

General

Subject code	Course Number	Course Title
PHYS	1240G	Algebra-Based Physics II

Description
The second half of a two semester algebra-based introduction to Physics. This course covers electricity, magnetism and optics.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Be able to state Coulomb's Law and Gauss's laws and apply them.

Name
2. Apply the concepts of electric charge, electric field and electric potential to solve problems.

Name
3. Analyze simple DC and AC circuits.

Name
4. Apply the Lorentz force to solve problems.

Name
5. Apply Faradays law of induction (and Lenzs law) to solve problems.

Name
6. Apply ray optics to practical lens systems such as microscopes and corrective lenses.

Name
7. Apply the wave nature of light to the phenomena of reflection, refraction, and diffraction.

Name
8. Describe the fundamental properties of periodic motion.

Name
9. Explain and apply the basic concepts of sound and wave motion.

Name
10. Explain the basic concepts of heat and thermodynamics.

Name
11. Explain the basic concepts of quantum theory and special relativity.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** PHYS1240L Algebra-based Physics II Laboratory
- **Prerequisite(s):** A grade of C or better in PHYS1230G Algebra-Based Physics I or PHYS2230G General Physics for Life Sciences I

Common Course Numbering Crosswalk

Past Course Numbers

PHYS 212G

PHYS 1240L - Algebra-based Physics II Laboratory

General

Subject code	Course Number	Course Title
PHYS	1240L	Algebra-based Physics II Laboratory

Description

A series of laboratory experiments associated with the material presented in PHYS 1240G.

General Education Course

Area III, Academic

Learning Outcomes

Name
1. Explain the scientific method.

Name
2. Test ideas using modern laboratory equipment.

Name
3. Estimate experimental uncertainties using statistical methods.

Name
4. Use computers to analyze and report laboratory results.

Name
5. Draw appropriate conclusions from quantitative scientific observations.

Name
6. Accurately and clearly communicate the results of scientific experiments.

Prerequisites/Corequisites

Free Form Requirements

Corequisite(s): PHYS1240G Algebra-Based Physics II

Common Course Numbering Crosswalk

Past Course Numbers

PHYS 212GL

PHYS 1310G - Calculus -Based Physics I

General

Subject code	Course Number	Course Title
PHYS	1310G	Calculus -Based Physics I

Description

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.

General Education Course

Area III, Academic

Learning Outcomes

Name
1. Describe the relationships among position, velocity, and acceleration as functions of time.

Name
2. Use the equations of kinematics to describe motion under constant acceleration.

Name
3. Analyze linear motion using Newtons laws, force, and linear momentum.

Name
4. Analyze rotational motion using torque and angular momentum.

Name
5. Analyze motion using work and energy.

Name
6. Describe and apply the fundamental properties of waves, oscillations, and periodic motion.

Name
7. Describe and apply the laws of thermodynamics.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** PHYS1310L Calculus - Based Physics I Laboratory
- **Prerequisite(s):** A grade of C or better in MATH1511G Calculus and Analytic Geometry I or higher

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 215G

PHYS 1310L - Calculus - Based Physics I Laboratory

General

Subject code	Course Number	Course Title
PHYS	1310L	Calculus - Based Physics I Laboratory

Description
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.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Develop a reasonable hypothesis.

Name
2. Work effectively as part of a team.

Name
3. Take measurements and record measured quantities to the appropriate precision.

Name
4. Estimate error sources in experimental techniques.

Name
5. Apply appropriate methods of analysis to raw data, including using graphical and statistical methods via computer-based tools.

Name
6. Determine whether results and conclusions are reasonable.

Name
7. Present experimental results in written form in appropriate style and depth.

Name
8. Experience the relationship between theory and experiment.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): PHYS1310G Calculus -Based Physics I

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 215GL

PHYS 1311 - Problems in Calculus-Based Physics I

General

Subject code	Course Number	Course Title
PHYS	1311	Problems in Calculus-Based Physics I

Description
This is a supplemental course for Calculus-based Physics I. Repeatable: up to 1 credit.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): PHYS1310G Calculus -Based Physics I

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 205

PHYS 1320G - Calculus-Based Physics II

General

Subject code	Course Number	Course Title
PHYS	1320G	Calculus-Based Physics II

Description
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.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Apply the concepts of electric charge, electric field and electric potential to solve problems.

Name
2. Sketch the electric field in the vicinity of point, line, sheet, and spherical distributions of static electric charge.

Name
3. Sketch the magnetic field in the vicinity of line, ring, sheet, and solenoid distributions of steady current.

Name
4. Describe the relationship between electric field and electric potential.

Name
5. Calculate the Lorentz force on a moving charge for simple geometries of the fields and use it to analyze the motion of charged particles.

Name
6. Apply the integral forms of Maxwells equations.

Name
7. Calculate the energy of electromagnetic fields.

Name
8. Analyze DC circuits.

Name
9. Describe the function of simple lenses.

Name
10. Describe two-slit interference

Name
11. Describe interference by a slit and a circular aperture

Name
12. Analyze AC circuits

Name
13. Describe and apply the fundamental properties of waves, oscillations, and periodic motion

Name
14. Describe and apply the laws of thermodynamics

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** PHYS1320L Calculus-Based Physics II Laboratory
- **Prerequisite(s):** A grade of C or better in PHYS1310G Calculus -Based Physics I or PHYS2110 Mechanics and MATH1521G Calculus and Analytic Geometry II

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 216G

PHYS 1320L - Calculus-Based Physics II Laboratory

General

Subject code	Course Number	Course Title
PHYS	1320L	Calculus-Based Physics II Laboratory

Description
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.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Develop a reasonable hypothesis.

Name
2. Work effectively as part of a team.

Name
3. Take measurements and record measured quantities to the appropriate precision.

Name
4. Estimate error sources in experimental techniques.

Name
5. Apply appropriate methods of analysis to raw data, including using graphical and statistical methods via computer-based tools.

Name
6. Determine whether results and conclusions are reasonable.

Name
7. Present experimental results in written form in appropriate style and depth.

Name
8. Experience the relationship between theory and experiment.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** PHYS1320G Calculus-Based Physics II
- **Prerequisite(s):** A grade of C or better in PHYS1310L Calculus - Based Physics I Laboratory or PHYS2110L Experimental Mechanics

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 216GL

PHYS 1321 - Problems in Calculus-Based Physics II

General

Subject code	Course Number	Course Title
PHYS	1321	Problems in Calculus-Based Physics II

Description
This is a supplemental course for Calculus-based Physics II.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): PHYS1320G Calculus-Based Physics II

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 206

PHYS 2110 - Mechanics

General

Subject code	Course Number	Course Title
PHYS	2110	Mechanics

Description
Newtonian mechanics.

General Education Course
Academic

Learning Outcomes

Name
1. Describe matter as particles or extended objects, analyze forces or torques acting on it, and apply Newtons laws to determine if the object is in equilibrium or predict any change in the motion of such an object.

Name
2. Apply vector algebra to predict motion or analyze interactions in one or two dimensions.

Name
3. Apply techniques of conservation laws (linear momentum, energy, angular momentum) to determine the effect of interactions that are internal or external to the system studied.

Name
4. Analyze systems in simple harmonic motion and explain qualitatively under what condition a driven oscillating system shows the phenomenon of resonance.

Name
5. Use multiple representations to build, interpret and communicate a model, including visual representations such as sketches or diagrams, mathematical expressions, graphs, or text.

Name
6. Given two or more cases, perform a ranking task by evaluating the similarities (comparison) or differences (contrast) in the cases and applying physics principles.

Name
7. Self-check reasonableness of assumptions and solutions, making use of limiting cases or symmetry arguments.

Name
8. Analyze real-world phenomena by defining and formulating the question or problem, constructing simplified idealized models (and stating their limitations), and applying appropriate mathematical reasoning to make predictions or explain a phenomenon or function.

Name
9. Communicate effectively with audiences of different scientific backgrounds by recognizing their needs and making the communication relevant and impactful.

Name
10. Work collegially and collaboratively in diverse teams both as a leader and as a member in pursuing a common goal.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** PHYS2110L Experimental Mechanics
- **Prerequisite(s)/Corequisite(s):** MATH1511G Calculus and Analytic Geometry I or higher

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 213

PHYS 2110L - Experimental Mechanics

General

Subject code	Course Number	Course Title
PHYS	2110L	Experimental Mechanics

Description
Laboratory experiments associated with the material presented in PHYS 2110. Science majors.
Corequisite(s): PHYS 2110. (3P)

General Education Course
Academic

Learning Outcomes

Name
1. Test scientific questions or ideas using appropriate laboratory equipment.

Name
2. Collect experimental data and evaluate the outcomes of an experiment qualitatively and quantitatively.

Name
3. Estimate measurement uncertainty.

Name
4. Apply appropriate methods of analysis to raw data, including graphical or statistical methods, and computer-based tools.

Name
5. Draw appropriate conclusions from quantitative scientific data.

Name
6. Communicate the process and the outcomes of an experiment and reflect on possible revisions in the procedure.

Name
7. Work effectively as part of a team.

Name
8. Demonstrate professional responsibility.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): PHYS2110 Mechanics

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 213 L

PHYS 2111 - Problems in Mechanics

General

Subject code	Course Number	Course Title
PHYS	2111	Problems in Mechanics

Description
This Optional workshop as a supplement to PHYS 2110. The tutorial sessions focus on reasoning and hands-on problem solving.
Repeatable: up to 1 credit.

General Education Course
Academic

Learning Outcomes

Name
1. Analyze real world phenomena by constructing simplified idealized models and appropriate mathematical reasoning to make predictions or explain a phenomena or function.

Name
2. Use multiple representations to build, interpret and communicate the model, including visual representations such as sketches or diagrams, mathematical expressions, graphs, or text.

Name
3. In the contexts of concepts and physical laws discussed in PHYS 2110, apply quantitative analysis to solve problems, including the use of scientific notation, unit conversion and vector algebra.

Name
4. Self-check reasonableness of assumptions and solutions, making use of limiting cases or symmetry arguments.

Name
5. Develop learning strategies and use metacognition to promote thinking in the discipline.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): PHYS2110 Mechanics

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 203

PHYS 2120 - Heat, Light, and Sound

General

Subject code	Course Number	Course Title
PHYS	2120	Heat, Light, and Sound

Description
Calculus-level treatment of thermodynamics, geometrical and physical optics, and sound.
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Analyze real world phenomena that meet specific needs and use scientific judgement to draw conclusions.

Name
2. Use multiple representations to build, interpret and communicate scientific models, including visual representations such as sketches or diagrams, mathematical expressions, graphs, or text.

Name
3. Analyze oscillations and wave phenomena.

Name
4. Analyze properties of sound waves.

Name
5. Analyze properties of light using interference and diffraction.

Name
6. Analyze light propagation through media using index of refraction and optical apparatus.

Name
7. Analyze optical systems using light propagation.

Name
8. Analyze the laws of thermodynamics and use them to describe processes in gases and other states of matter.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** PHYS2120L Heat, Light, and Sound Laboratory
- **Prerequisite(s):** A grade of C or better in PHYS1310G Calculus -Based Physics I or PHYS2110 Mechanics and MATH1511G Calculus and Analytic Geometry I or higher

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 217

PHYS 2120L - Heat, Light, and Sound Laboratory

General

Subject code	Course Number	Course Title
PHYS	2120L	Heat, Light, and Sound Laboratory

Description
Laboratory experiments associated with the material presented in PHYS 2120. Science majors.

General Education Course
Academic

Learning Outcomes

Name
1. Develop a reasonable hypothesis.

Name
2. Work effectively as part of a team.

Name
3. Take measurements and record measured quantities to the appropriate precision.

Name
4. Estimate error sources in experimental techniques.

Name
5. Apply appropriate methods of analysis to raw data, including using graphical and statistical methods via computer-based tools.

Name
6. Determine whether results and conclusions are reasonable.

Name
7. Present experimental results in written form in appropriate style and depth.

Name
8. Understand the relationship between theory and experiment.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** PHYS2120 Heat, Light, and Sound
- **Prerequisite(s):** A grade of C or better in PHYS1310L Calculus - Based Physics I Laboratory or PHYS2110L Experimental Mechanics

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 217 L

PHYS 2121 - Supplemental Instruction to PHYS 2120

General

Subject code	Course Number	Course Title
PHYS	2121	Supplemental Instruction to PHYS 2120

Description
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.
Repeatable: up to 1 credit.

General Education Course
Academic

Learning Outcomes

Name
1. Analyze real world phenomena by constructing simplified idealized models and appropriate mathematical reasoning to make predictions or explain a phenomena or function.

Name
2. Use multiple representations to build, interpret and communicate the model, including visual representations such as sketches or diagrams, mathematical expressions, graphs, or text.

Name
3. In the contexts of concepts and physical laws discussed in PHYS 2120, apply quantitative analysis to solve problems involving wave propagation and interference, geometric optics, heat transfer and thermodynamics.

Name
4. Self-check reasonableness of assumptions and solutions, making use of limiting cases or symmetry arguments.

Name
5. Develop learning strategies and use metacognition to promote thinking in the discipline.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): PHYS2120 Heat, Light, and Sound

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 218

PHYS 2140 - Electricity and Magnetism

General

Subject code	Course Number	Course Title
PHYS	2140	Electricity and Magnetism

Description
Charges and matter, the electric field, Gauss law, the electric potential, the magnetic field, Amperes law, Faradays law, electric circuits, alternating currents, Maxwells equations, and electromagnetic waves.
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Analyze real-world phenomena by deciding what information is relevant and constructing simplified idealized models and appropriate mathematical reasoning to make predictions or explain a phenomenon or function.

Name
2. Use multiple representations to build, interpret and communicate the model, including visual representations such as sketches or diagrams, mathematical expressions, graphs, or text.

Name
3. Use a physics problem-solving strategy: i. Identify relevant concepts. ii. Introduce and study simplified models. iii. Use symmetry arguments. iv. Establish the relation between known and unknown quantities. v. Calculate a quantitative result using appropriate mathematical methods. vi. Self-check reasonableness of assumptions and solutions.

Name
4. Analyze/predict the interaction of charged particles, dipoles, or conductors with electric or magnetic fields. Apply concepts of force, work, or energy.

Name
5. Describe sources of electric fields or magnetic fields and calculate field vectors for a point in space.

Name
6. Apply Gausss law to calculate electric fields for symmetric charge distributions or to determine surface charges on conductors in electrostatic equilibrium.

Name
7. Apply Amperes law and the Law of Biot-Savart to calculate magnetic fields.

Name
8. Evaluate if magnetic flux changes and if an electric field or electric current is induced. Determine the direction of the induced current or the non-Coulomb electric field by applying Lenzs law. Apply Faradays law to relate the rate of change of magnetic flux with the magnitude of emf induced.

Name
9. Calculate and discuss properties of electric circuits (dc) with resistors, capacitors, and inductors applying Kirchhoffs rules or Ohms law.

Name
10. Discuss how the presence of a capacitor or an inductor modifies the behavior of a (dc) circuit and determine the time dependence of the current.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** PHYS2140L Electricity & Magnetism Laboratory
- **Prerequisite(s):** A grade of C or better in PHYS1310G Calculus -Based Physics I or PHYS2110 Mechanics and MATH1511G Calculus and Analytic Geometry I or higher
- **Prerequisite(s)/Corequisite(s):** MATH1521G Calculus and Analytic Geometry II

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 214

PHYS 2140L - Electricity & Magnetism Laboratory

General

Subject code	Course Number	Course Title
PHYS	2140L	Electricity & Magnetism Laboratory

Description
Laboratory experiments associated with the material presented in PHYS 2140.

General Education Course
Academic

Learning Outcomes

Name
1. Develop a reasonable hypothesis.

Name
2. Work effectively as part of a team.

Name
3. Take measurements and record measured quantities to the appropriate precision.

Name
4. Estimate error sources in experimental techniques.

Name
5. Apply appropriate methods of analysis to raw data, including using graphical and statistical methods via computer-based tools.

Name
6. Determine whether results and conclusions are reasonable.

Name
7. Present experimental results in written form in appropriate style and depth.

Name
8. Understand the relationship between theory and experiment.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** PHYS2140 Electricity and Magnetism
- **Prerequisite(s):** A grade of C or better in PHYS1310G Calculus -Based Physics I or PHYS2110 Mechanics

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 214 L

PHYS 2141 - Supplemental Instruction to PHYS 2140

General

Subject code	Course Number	Course Title
PHYS	2141	Supplemental Instruction to PHYS 2140

Description
Optional workshop as a supplement to PHYS 2140. The tutorial sessions focus on reasoning and hands-on problem solving.

General Education Course
Academic

Learning Outcomes

Name
1. Analyze real-world phenomena by constructing simplified idealized models and appropriate mathematical reasoning to make predictions or explain a phenomenon or function.

Name
2. Use multiple representations to build, interpret and communicate the model, including visual representations such as sketches or diagrams, mathematical expressions, graphs, or text.

Name
3. In the contexts of concepts and physical laws discussed in PHYS 2140, apply quantitative analysis to solve problems, including the use of symmetry to study electric and magnetic fields. Practice concepts of calculus applied to charge and current distributions.

Name
4. Self-check reasonableness of assumptions and solutions, making use of limiting cases or symmetry arguments.

Name
5. Develop learning strategies and use metacognition to promote thinking in the discipline.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): PHYS2140 Electricity and Magnetism

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 204

PHYS 2230G - General Physics for Life Sciences I

General

Subject code	Course Number	Course Title
PHYS	2230G	General Physics for Life Sciences I

Description
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.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Modeling: analyze real-world phenomena by deciding what information is relevant and constructing simplified idealized models and appropriate mathematical reasoning to make predictions or explain phenomena or function; use multiple representations to build, interpret and communicate the model, including visual representations such as sketches or diagrams, mathematical expressions, graphs, or text; critique assumptions and determine how to test the validity of a model and use the comparison of experimental data and prediction to refine the model.

Name
2. Conceptual understanding: describes the motion of any object in terms of displacement, velocity, and acceleration; analyze external forces acting on an object and determine if a system is in equilibrium or relate the net force to changes in motion; predict or analyze motion using conservation laws for energy and momentum; analyze forces and torques for a rigid object in static equilibrium; for a static fluid determine pressure and the buoyant force; apply idealized models of fluid flow to the circulatory system; describe the properties of pressure waves known as sound, apply the model of standing waves to musical instruments and discuss how sound is used to sense the environment; predict qualitative changes in the internal energy of a thermodynamic system when energy has been transferred due to work or heat and justify those predictions using conservation of energy (First law of thermodynamics). Identify which heat transfer processes occur in a described situation.

Name
3. Quantitative reasoning: use a physics problem-solving strategy: Identify relevant concepts; Introduce and study simplified models; Use symmetry arguments; Establish the relation between known and unknown quantities; Calculate a quantitative result using appropriate mathematical methods; Self-check reasonableness of assumptions and solutions: use scientific notation accurately and convert units if necessary.

Name
4. Communicating scientific information: interpret or generate graphs or other visual representations and be able to switch between various representations including text, mathematical description, or diagrams.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** PHYS2230L Laboratory to General Physics for Life Sciences I
- **Prerequisite(s):** A grade of C or better in MATH1215 Intermediate Algebraor higher

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 221G

PHYS 2230L - Laboratory to General Physics for Life Sciences I

General

Subject code	Course Number	Course Title
PHYS	2230L	Laboratory to General Physics for Life Sciences I

Description
Laboratory experiments in topics associated with material presented in PHYS 2230G.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): PHYS2230G General Physics for Life Sciences I

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 221GL

PHYS 2231 - Problems in Algebra-based Physics I

General

Subject code	Course Number	Course Title
PHYS	2231	Problems in Algebra-based Physics I

Description
This optional workshop supplements Physics for Life Sciences I. The tutorial sessions focus on reasoning and hands-on problem solving.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): PHYS2230G General Physics for Life Sciences I

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 223

PHYS 2240G - General Physics for Life Sciences II

General

Subject code	Course Number	Course Title
PHYS	2240G	General Physics for Life Sciences II

Description
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.

General Education Course
Area III, Academic

Learning Outcomes

Name
1. Modeling: analyze real world phenomena by constructing simplified idealized models (an abstract description) that allow making predictions or explaining a phenomena or function; use multiple representations to build and communicate the model, including sketches, mathematical expressions, diagrams or graphs; decide what information is relevant and critique assumptions and models of others; determine how to test the validity of a model and use comparison of experimental data and prediction to refine the model.

Name
2. Conceptual understanding: electric or magnetic fields can be used to describe interactions of objects that contain charges with their surroundings; changes that occur as a result of interactions are constrained by conservation laws (such as conservation of energy, conservation of charge or conservation of nucleon number); many macroscopic properties of materials can be described using microscopic models or related to their geometry; electromagnetic radiation can be modeled as a wave or as fundamental particles (photons); the direction of propagation of a wave may change when it encounters a boundary surface between two media of different properties (reflection or refraction); the spontaneous radioactive decay of nuclei is described by probability.

Name
3. Quantitative reasoning: apply quantitative analysis and appropriate mathematical reasoning to describe or explain phenomena; use scientific notation accurately and convert units if necessary.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** PHYS2240L Laboratory to General Physics for Life Sciences II
- **Prerequisite(s):** A grade of C or better in PHYS1230G Algebra-Based Physics I or PHYS2230G General Physics for Life Sciences I and MATH1220G College Algebra or higher

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 222G

PHYS 2240L - Laboratory to General Physics for Life Sciences II

General

Subject code	Course Number	Course Title
PHYS	2240L	Laboratory to General Physics for Life Sciences II

Description
Laboratory experiments in topics associated with material presented in PHYS 2240G.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): PHYS2240G General Physics for Life Sciences II

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 222GL

PHYS 2241 - Problems in Algebra-based Physics II

General

Subject code	Course Number	Course Title
PHYS	2241	Problems in Algebra-based Physics II

Description
This optional workshop is a supplement to Physics for Life Science II. The tutorial sessions focus on reasoning and hands-on problem solving.
Repeatable: up to 1 credit.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): PHYS2240G General Physics for Life Sciences II

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 224

PHYS 2996 - Topics in Physics

General

Subject code	Course Number	Course Title
PHYS	2996	Topics in Physics

Description
Topics to be announced in the Schedule of Classes.
Repeatable: for a maximum of 12 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 290

PHYS 2997 - Independent Study in Physics

General

Subject code	Course Number	Course Title
PHYS	2997	Independent Study in Physics

Description
Individual analytical or laboratory studies directed by a faculty member.
Repeatable: for a maximum of 6 credits.
Provides lab.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
PHYS 280

PL S 160 - Legal System for the Paralegal

General

Subject code	Course Number	Course Title
PLS	160	Legal System for the Paralegal

Description
Introduction to the court system, administrative agencies, functions of law offices, and professional conduct and legal ethics.

General Education Course
Technical

Learning Outcomes

Name
1. Discuss the paralegal profession.

Name
2. Analyze the functions of law offices.

Name
3. Identify the purpose and function of American courts.

Name
4. Describe the purpose and function of administrative agencies in the U.S.

Name
5. Explain key elements of American law and the legal system.

Name
6. Examine legal research and analysis.

Name
7. Evaluate professional conduct, professional responsibility, and legal ethics.

Prerequisites/Corequisites

Free Form Requirements
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 ENGL1110G Composition I and CCDS113 N Study Skills for English

PL S 161 - Legal Terminology

General

Subject code	Course Number	Course Title
PLS	161	Legal Terminology

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

PL S 162 - The Virtual Law Office

General

Subject code	Course Number	Course Title
PLS	162	The Virtual Law Office

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS160 Legal System for the Paralegal

PL S 180 - Constitutional Law for the Paralegal

General

Subject code	Course Number	Course Title
PLS	180	Constitutional Law for the Paralegal

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Discuss the role of paralegal in the law practice.

Name
2. Analyze the U.S. Constitution and the Bill of Rights.

Name
3. Examine documents dealing with constitutional problems in both civil and criminal law.

Name
4. Identify the purpose and function of paralegals with regard to drafting documents.

Name
5. Describe the purpose and function of paralegals with regard to legal research and analysis.

Name
6. Explain key elements of reading and reviewing legal cases.

Name
7. Evaluate professional conduct, professional responsibility, and legal ethics in criminal and civil trials.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS160 Legal System for the Paralegal

PL S 190 - Criminal Law for the Paralegal

General

Subject code	Course Number	Course Title
PLS	190	Criminal Law for the Paralegal

Description
Introduction to federal and state criminal law; criminal proceedings, prosecution and defense, sentencing and appeal.

General Education Course
Technical

Learning Outcomes

Name
1. Identify the sources and limitations of criminal law in the United States.

Name
2.Explain the key principles and defenses found in criminal law in the United States.

Name
3. Explain the elements and defenses related to some of the most common criminal charges.

Name
4. Analyze how the elements and defenses related to those criminal charges apply to decided cases and hypothetical scenarios.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS160 Legal System for the Paralegal

PL S 200 - Legal Ethics for the Paralegal

General

Subject code	Course Number	Course Title
PLS	200	Legal Ethics for the Paralegal

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Identify the sources, proceedings and constitutional limitations of the rules of professional conduct for lawyers and paralegals apply selected terms and concepts to a given scenario.

Name
2. Explain the key terms, concepts and ethical rules related to the unauthorized practice of law and apply selected terms and concepts to a given scenario.

Name
3. Explain the key terms, concepts and ethical rules related to the duty of confidentiality and the attorney/client privilege and apply selected terms and concepts to a given scenario.

Name
4. Explain the key terms, concepts and ethical rules related to the conflicts of interest and apply selected terms and concepts to a given scenario.

Name
5. Explain the key terms, concepts and ethical rules related to attorney advertising and solicitation and apply selected terms and concepts to a given scenario.

Name
6. Explain the key terms, concepts and ethical rules related to attorney fees and fee sharing and apply selected terms and concepts to a given scenario.

Name
7. Explain the key terms, concepts and ethical rules related to litigation, malpractice and pro bono services and apply selected terms and concepts to a given scenario.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS160 Legal System for the Paralegal

PL S 203 - Immigration Law

General

Subject code	Course Number	Course Title
PLS	203	Immigration Law

Description
Survey of the basics of immigration law including the rights and obligations of citizenship and the naturalization process.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS160 Legal System for the Paralegal

PL S 221 - Internship I

General

Subject code	Course Number	Course Title
PLS	221	Internship I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS274 Legal Research and Writing for the Paralegal I

PL S 222 - Internship II

General

Subject code	Course Number	Course Title
PLS	222	Internship II

Description
Continuation of PL S 221. Each credit requires specified number of hours of on-the-job work experience.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS221 Internship I

PL S 231 - The Law of Commerce for the Paralegal

General

Subject code	Course Number	Course Title
PLS	231	The Law of Commerce for the Paralegal

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Identify and demonstrate the elements and requirements of a valid legal contract and negotiable instruments. (CO #1).

Name
2. Identify and practice the key terms and concepts related to bank transfers and secured transactions. (CO #2).

Name
3. Identify the key terms and concepts related to debtor/creditor and principal/agent relationships and apply selected terms and concepts to a given scenario. (CO #3).

Name
4. Identify the key terms and concepts related to a sole proprietorships and general and limited partnerships and apply selected terms and concepts to a given scenario. (CO #4).

Name
5. Identify the key terms and concepts related to a Limited Liability Company and Business Corporations and apply selected terms and concepts to a given scenario. (CO#5).

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS160 Legal System for the Paralegal

PL S 272 - Bankruptcy Law for the Paralegal

General

Subject code	Course Number	Course Title
PLS	272	Bankruptcy Law for the Paralegal

Description
Individual and corporate bankruptcy; the basic principles and processes of bankruptcy law as a system of debtor relief and debt collection.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS160 Legal System for the Paralegal

PL S 274 - Legal Research and Writing for the Paralegal I

General

Subject code	Course Number	Course Title
PLS	274	Legal Research and Writing for the Paralegal I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Module 1: CO1. Identify the major legal resources; CO1. Identify the different types of jurisdiction.

Name
2. Module 2: CO2. Research and Describe statutory law.

Name
3. Module 3: CO3. Research and describe case law through a case brief.

Name
4. Module 4: CO4. Identify and write legal information gained from secondary sources.

Name
5. Module 5: CO5. Identify and draft proper legal citations using Bluebook.

Name
6. Module 6: CO6. Conduct and communicate updated and valid legal research.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better inPLS160 Legal System for the Paralegal and ENGL1110G Composition I

PL S 275 - Tort and Insurance for the Paralegal

General

Subject code	Course Number	Course Title
PLS	275	Tort and Insurance for the Paralegal

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Identify the purpose and sources of tort law in the United States.

Name
2. Identify and explain the key steps in litigating a tort case in the United States.

Name
3. Describe the key terms and concepts related to negligence and premises liability claims and examine how those key terms and concepts apply to decided cases and given scenarios.

Name
4. Describe the key terms and concepts related to intentional torts, business related torts and nuisance claims and examine how those key terms and concepts apply to decided cases and given scenarios.

Name
5. Describe the key terms and concepts related to defenses to intentional torts as well as privileges and immunity and examine how those key terms and concepts apply to decided cases and given scenarios.

Name
6. Describe the key terms and concepts related to strict liability, product liability and vicarious claims and examine how those key terms and concepts apply to decided cases and given scenarios.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS160 Legal System for the Paralegal

PL S 276 - Wills, Trusts, and Probate for the Paralegal

General

Subject code	Course Number	Course Title
PLS	276	Wills, Trusts, and Probate for the Paralegal

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS160 Legal System for the Paralegal

PL S 277 - Family Law for the Paralegal

General

Subject code	Course Number	Course Title
PLS	277	Family Law for the Paralegal

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Module 1: CO1. Relay your role as a family law paralegal and how it will intersect with the different areas of law; CO1.Draft a client intake memorandum conveying relevant facts for attorney use.

Name
2. Module 2: CO2. Identify the major terminology for premarital law and traditional marriage law; CO2. Draft a premarital agreement.

Name
3. Module 3: CO3. Discuss how a marriage may legally dissolve by annulment and by Divorce; CO3. Draft a divorce complaint/petition.

Name
4. Module 4: CO4. Demonstrate a working knowledge of the legal issues involved in Separations agreements, custody issues, and child support; CO4. Draft a separation agreement, child custody agreement, and child support agreement.

Name
5. Module 5: CO5. Describe the different types of parentage and how one can obtain and lose that right; CO5. Explain the varying steps taken for adoption.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS160 Legal System for the Paralegal

PL S 278 - Litigation for the Paralegal

General

Subject code	Course Number	Course Title
PLS	278	Litigation for the Paralegal

Description
The law of procedure and evidence will be considered through rules and cases. Case situations will be used to identify and solve problems.

General Education Course
Technical

Learning Outcomes

Name
1. CO 1: Describe the basic federal and state court structures, jurisdiction, and venue Requirements; Identify the various components of an initial client interview while applying ethical limitations.

Name
2. CO 2: Accurately identify, state, and ethically apply rules of evidence to factual scenarios.

Name
3. CO 3: Draft a complaint for a civil lawsuit in compliance rules of civil procedure; Identify the required steps to filing and properly amending a civil suit and motions; Determine if a complaint is defective on its face and draft a notice of removal accordingly.

Name
4. CO 4: Draft interrogatories and identify issues for depositions supported by the rules of civil procedure.

Name
5. CO 5: Discuss the advantages and disadvantages of the different forms of settlement and draft a settlement document; Demonstrate knowledge of settlement and trial terms used during the course of settlement and trial; Prepare voir dire and jury instructions.

Name
6. CO 6: Identify and explain issues related to post-trial.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS160 Legal System for the Paralegal

PL S 279 - Legal Research and Writing for the Paralegal II

General

Subject code	Course Number	Course Title
PLS	279	Legal Research and Writing for the Paralegal II

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Module 1: CO1. Research legal topics using the internet.

Name
2. Module 2: CO2. Create a legal research strategy and demonstrate complex legal research.

Name
3. Module 3: CO3. Recognize and implement grammar rules.

Name
4. Module 4: CO4. Draft an effective legal letter.

Name
5. Module 5 : CO5. Draft an effective legal memorandum.

Name
6. Module 6: CO6. Using advanced legal analysis draft an effective legal memorandum.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS274 Legal Research and Writing for the Paralegal I

PL S 280 - Interviewing and Investigation for the Paralegal

General

Subject code	Course Number	Course Title
PLS	280	Interviewing and Investigation for the Paralegal

Description
Techniques of legal interviewing and investigation with emphasis on development of human relations and communication skills.

General Education Course
Technical

Learning Outcomes

Name
1. Discuss and identify the roles a criminal investigator plays in an investigation.

Name
2. Discuss, plan and implement the proper procedure of a criminal investigation.

Name
3. Identify and compare different law enforcement agencies and the role they pay in criminal investigations.

Name
4. Identify and discuss various interviewing techniques and steps to take in using informants.

Name
5. Discuss proper evidence collection procedures.

Name
6. Identify investigative correlation between drug distribution and gangs.

Name
7. Outline basic note taking and documentation techniques.

Name
8. Discuss US constitutional amendments in regards to the law enforcement system.

Name
9. Identify investigative steps to take in abuse cases.

Prerequisites/Corequisites

No Requirements

PL S 298 - Independent Study

General

Subject code	Course Number	Course Title
PLS	298	Independent Study

Description
Individual studies directed by consenting faculty with prior approval by department head.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in PLS160 Legal System for the Paralegal

POLS 1110G - Introduction to Political Science

General

Subject code	Course Number	Course Title
POLS	1110G	Introduction to Political Science

Description
This course covers fundamental concepts in political science, such as political theories, ideologies, and government systems.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Construct reasoned civic discourse to advocate a stance or examine alternate positions.

Name
2. Identify fundamental concepts and theories in political science.

Name
3. Analyze data and information in order to gain a deeper understanding of the material.

Name
4. Articulate how the public influence and are influenced by politics.

Name
5. Identify and compare government systems from democracy to authoritarian, as well as models of analysis of contemporary international relations.

Common Course Numbering Crosswalk

Past Course Numbers
GOVT 110G

POLS 1111 - Introductory Government Seminar

General

Subject code	Course Number	Course Title
POLS	1111	Introductory Government Seminar

Description
Introduction to the government major. Designed to assist students in planning college experience and preparing for upper division course work and research. Graded: S/U

General Education Course
Academic

Learning Outcomes

Name
1. This course is designed for the beginning government major.

Name
2. Its goal is to improve your educational experience at the university and within the Department of Government. In this class we hope to develop some basic skills necessary for successful completion of a degree in Government.

Name
3. These include the skills of critical reading, critical writing, oral presentation and research methods.

Name
4. Additionally, we will use this seminar to introduce you to Government faculty, to plan your government degree and to acquaint you with the services and opportunities the department and the university has to offer.

Name
5. Finally, we hope to begin the discussion of where you will go next, when you complete your degree in Government.

Common Course Numbering Crosswalk

Past Course Numbers
GOVT 101

POLS 1120G - American National Government

General

Subject code	Course Number	Course Title
POLS	1120G	American National Government

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Explain the historical and political foundations of the government of the United States.

Name
2. Explain the precursors to, and the development and adoption of the United States Constitution.

Name
3. Explain the United States federal system, the basics of federalism, and the changing relationship of state and federal power.

Name
4. Describe the power, structure and operation of the main institutions of government, namely the legislative, executive, judicial, and the federal bureaucracy.

Name
5. Explain the development and role of political parties and interest groups.

Name
6. Identify the constitutional basis of civil rights and civil liberties and their changing interpretation; and

Name
7. Describe the role of demographics, public opinion and the media in American politics.

Common Course Numbering Crosswalk

Past Course Numbers
GOVT 100G

POLS 1130G - Issues in American Politics

General

Subject code	Course Number	Course Title
POLS	1130G	Issues in American Politics

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Explain the basic themes and concepts of political science and their application to contemporary issues.

Name
2. Explain the major forces, interests, and institutions of American democratic politics.

Name
3. Describe and define how beliefs, assumptions, and values are influences by factors such as politics, geography, economics, culture, biology, history, and social institutions.

Common Course Numbering Crosswalk

Past Course Numbers
GOVT 150G

POLS 2120G - International Relations

General

Subject code	Course Number	Course Title
POLS	2120G	International Relations

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Explain the interrelationships between countries and people in the world.

Name
2. Demonstrate an awareness of current events in the world.

Name
3. Describe several theories of International Relations.

Name
4. Explain and identify theories of power and decision making among states in the world.

Name
5. Describe and evaluate issues that relate to International Politics, and how individuals are affected by them.

Name
6. Describe the role of Intergovernmental Organizations in International Politics.

Name
7. Identify the role war plays in International Politics.

Name
8. Explain how economics is intertwined with International Politics.

Name
9. Demonstrate an understanding of role of international terrorism and its impacts on global diplomacy.

Name
10. Articulate how beliefs, assumptions, and values are influenced by factors such as politics, geography, economics, culture, history, government, and social institutions.

Common Course Numbering Crosswalk

Past Course Numbers
GOVT 160G

POLS 2996 - Topics in Political Science

General

Subject code	Course Number	Course Title
POLS	2996	Topics in Political Science

Description
Specific topics to be announced in Schedule of Classes. Repeatable: for a maximum of 12 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
GOVT 201

PSYC 1110G - Introduction to Psychology

General

Subject code	Course Number	Course Title
PSYC	1110G	Introduction to Psychology

Description
This course will introduce students to the concepts, theories, significant findings, methodologies, and terminology that apply to the field of psychology.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Explain how the scientific method and psychological research methodologies are used to study the mind and behavior.

Name
2. Recall key terms, concepts, and theories in the areas of neuroscience, learning, memory, cognition, intelligence, motivation and emotion, development, personality, health, disorders and therapies, and social psychology.

Name
3. Explain how information provided in this course can be applied to life in the real world.

Name
4. Identify the major theoretical schools of thought that exist in psychology as they relate to the self, the culture, and the society.

Common Course Numbering Crosswalk

Past Course Numbers
PSY 201G

PSYC 2110 - Social Psychology

General

Subject code	Course Number	Course Title
PSYC	2110	Social Psychology

Description
This course is an introduction to the scientific study of human social influence and interaction, and explores how an individual's actions, emotions, attitudes and thought processes are influenced by society and other individuals.

General Education Course
Academic

Learning Outcomes

Name
1. Identify concepts, theories, scientific methods, and research findings relevant to social psychology.

Name
2. Explain how situational, social, and individual factors influence behavior.

Name
3. Apply social psychological concepts to real-life events, current social issues and problems, and one's own life.

PSYC 2120 - Developmental Psychology

General

Subject code	Course Number	Course Title
PSYC	2120	Developmental Psychology

Description
Study of human physical and psychological change and stability from a lifespan development perspective.

General Education Course
Academic

Learning Outcomes

Name
1. Explain theories, methods and research findings of lifespan developmental psychology.

Name
2. Describe the interaction between physical, cognitive, and psychosocial development across the lifespan.

Name
3. Compare and contrast major developmental theories and discuss what each brings to or adds to the study of lifespan developmental psychology.

Name
4. Identify factors that influence psychological development across the lifespan.

Name
5. Apply basic principles of developmental psychology to ones own life experiences.

Name
6. Analyze historical and cultural factors that influence development across the lifespan.

PSYC 2221 - Applied Psychology

General

Subject code	Course Number	Course Title
PSYC	2221	Applied Psychology

Description
Explanation of the psychological principles of everyday living. Emphasizes motivation, learning of intelligent behavior, and applications of psychology to social issues.

General Education Course
Academic

Learning Outcomes

Name
1. Identify the requirements for becoming a helping professional, characteristics of a skilled helper, and cultural factors that impact helping professionals.

Name
2. Explain your personal strengths and weaknesses as a potential helper.

Name
3. Demonstrate appropriate helping strategies based upon the special characteristics of clients.

Name
4. Compare the capabilities that individual, family, group, community, and online interventions offer you as a future helper.

Name
5. Identify the ethical and legal issues that impact helping professionals

Name
6. Analyze the potential impact of your future ethical and professional standards as a helping professional

Name
7. Explain how your role as a helping professional is impacted by your professional affiliation and ethical principles

Name
8. Analyze how worsening personal problems and increasing stress can impact the kinds and quality of our responses to life and the people around us.

Common Course Numbering Crosswalk

Past Course Numbers
PSY 266

PSYC 2230 - Psychology of Adjustment

General

Subject code	Course Number	Course Title
PSYC	2230	Psychology of Adjustment

Description
This course focuses on the individual's adjustment to society, and the application of psychological principles to the understanding of adjustment.

General Education Course
Academic

Learning Outcomes

Name
1. Explain the internal and external factors associated with the psychology of adjustment.

Name
2. Evaluate contributions from psychology to adjustment concepts and processes.

Name
3. Describe the different explanations of how individuals adjust to their environments.

Name
4. Describe how self-identities develop and how they affect relations with others.

Name
5. Identify resources available for assistance with adjustment-related concerns.

Common Course Numbering Crosswalk

Past Course Numbers
PSY 290

PSYC 2311 - Service Learning

General

Subject code	Course Number	Course Title
PSYC	2311	Service Learning

Description
Physiological and psychological impact of drug use on human behavior. Emphasizes practical applications of intervention and prevention in the community.

General Education Course
Academic

Learning Outcomes

Name
1. Through readings and discussions, students will be able to describe the role that gender, ethnicity, and age have in alcohol and drug use.

Name
2. Through readings and discussions, students will be able to learn past and current perspectives of addiction.

Name
3. Through readings, discussions and student presentations, students will be able to distinguish between different types of abuse-able drugs and be able to classify them.

Name
4. Through readings, discussions, lectures and guest speakers students will be able to describe the role of addiction and criminal behavior.

Name
5. Through readings and discussions, students will be able to discuss the Models and Theories of Drug Dependence and Addiction.

Name
6. Through readings, discussions and evaluation of case studies students will be able to discuss the definitions of Substance Abuse, Dependence Addiction.

Name
7. Through readings and discussions, students will be able to acquaint themselves with the effects of Addictive Behavior on Family Systems.

Name
8. Through readings discussions, students will be able to Discuss Disorders Co-Occurring with Substance Abuse

Name
9. Through readings and community service learning outing, students will be able to discuss how important the concepts of Prevention, Intervention and Treatment in drug addiction.

Name
10. Through readings and community service learning outing students will be able to discuss Alcohol/Drug Recovery Treatment Relapse Prevention

Name
11. Through completion of Service Learning and field assignment students will be able to discuss the role of AA/NA in Recovery Treatment.

Name
12. Through attendance of a Drug Court Hearing students will be knowledgeable of the role of Drug Courts in prevention and treatment of drug addiction.

Common Course Numbering Crosswalk

Past Course Numbers
PSY 274

PSYC2370 - Cultural Psychology

General

Subject code	Catalog Code	Course Number	Course Title
PSYC	PSYC 2370	2370	Cultural Psychology

Description
This course explores the field of cultural psychology: the scientific study of the ways in which cultural forces shape human thought, emotion, and behavior. As a sub-discipline of psychology; cultural psychology emphasizes the influence of culture on human behavior and examines topics in psychology from a multicultural, multi-ethnic perspective. While the course will cover a broad range of topics, emphasis will be placed on core issues in cultural psychology.

PSYC2370 - Cultural Psychology

General

Subject code	Catalog Code	Course Number	Course Title
PSYC	PSYC 2370	2370	Cultural Psychology

Description
This course explores the field of cultural psychology: the scientific study of the ways in which cultural forces shape human thought, emotion, and behavior. As a sub-discipline of psychology; cultural psychology emphasizes the influence of culture on human behavior and examines topics in psychology from a multicultural, multi-ethnic perspective. While the course will cover a broad range of topics, emphasis will be placed on core issues in cultural psychology.

General Education Course
Academic Courses

Learning Outcomes

Name
1. Identify, orally and in writing, key historical events and figures leading to the birth of cultural psychology in the 1960s.

Name
2. Define and describe the major concepts and issues in cultural psychology as assessed via course examinations, class discussion, and writing assignments.

Name
3. Recognize the strengths and limitations of qualitative and quantitative methods in cultural psychology.

Name
4. Explain, in writing, why all psychology is cultural.

Name
5. Recognize the relationships between culture, race, and ethnicity.

Name
6. Demonstrate tolerance for human diversity.

Name
7. Critically evaluate the field via written examinations, out-of-class papers and in-class oral and written responses.

Prerequisites/Corequisites

No Requirements

RPDE 1XXX - RPDE course to create subject Code in Coursedog

General

Subject code
RPDE

Course Number
1XXX

Course Title
RPDE course to create subject Code in Coursedog

Description
Coursedog

SMET 101 - Introduction to Science, Mathematics, Engineering, and Technology

General

Subject code
SMET

Course Number
101

Course Title
Introduction to Science, Mathematics, Engineering, and Technology

Description
An introductory course for science, mathematics, engineering, or technology students, emphasizing introduction to their disciplines. Development of critical thinking and academic success skills for technical disciplines, as well as degree planning for the major.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

SMET 102 - Introduction to Engineering Design.

General

Subject code
SMET

Course Number
102

Course Title
Introduction to Engineering Design.

Description
Fundamental concepts of engineering design developed through analysis of case studies and hands-on design projects.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

SMET 201 - Research for Visiting Community College Students

General

Subject code
SMET

Course Number
201

Course Title
Research for Visiting Community College Students

Description
Research experience for visiting community college students.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

SOCI 1110G - Introduction to Sociology

General

Subject code	Course Number	Course Title
SOCI	1110G	Introduction to Sociology

Description
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 "taken for granted" 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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Define sociological perspectives and the contributions that sociological knowledge can bring to the social sciences.

Name
2. Understand the sociological imagination and explain the relationships between social structures, social forces and individuals.

Name
3. Demonstrate the ability to apply the perspectives of symbolic interactionist theory, conflict theory, and structural-functionalist theory to qualitative and/or quantitative data.

Name
4. Understand and explain intersectionality and the connections between race, class, gender, disability, sexual identity and other forms of structural inequality.

Common Course Numbering Crosswalk

Past Course Numbers
SOC 101G

SOCI 2220 - Sociology of Gender

General

Subject code	Course Number	Course Title
SOCI	2220	Sociology of Gender

Description
This course is an introduction to the sociology of gender and gendered inequalities. While analyzing how masculinity, femininity and other gender forms are socially constructed, we will also analyze how gender intersects with other forms of social stratification such as race, socio-economic status, disability and sexual orientation. Our analysis of gender will focus on gender socialization, gender identities, and how gender forms are deeply rooted and reproduced in social institutions, interactions and relationships.

General Education Course
Academic

Learning Outcomes

Name
1. Describe how gendered social relationships influence experiences, life chances, and perceptions.

Name
2. Explain how gendered inequalities intersect with other forms of social stratification including race/ethnicity, social class, sexuality, etc.

Name
3. Communicate how the institutional structures of gendered social relations have changed over time both in the United States and globally.

Name
4. Describe sociological theories and perspectives of gender and how they pertain to experiences of gendered social relationships.

SOCI 2230 - Sociology of Sexuality

General

Subject code	Course Number	Course Title
SOCI	2230	Sociology of Sexuality

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Identify the central research questions, theories, and methodologies used in the study of human sexuality.

Name
2. Identify and describe biological, cultural, social, and psychological sexual behaviors and responses across the lifespan.

Name
3. Identify and describe trends and changes that influence sexual attitudes and values in the U.S. and globally.

Name
4. Describe how sexuality is influenced by contextual factors, such as race/ethnicity, gender, socioeconomic status, disability, and nationality.

Common Course Numbering Crosswalk

Past Course Numbers
SOC 263, SOC 269

SOCI 2240 - Sociology of Intimate Relationships and Family

General

Subject code	Course Number	Course Title
SOCI	2240	Sociology of Intimate Relationships and Family

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Explain the sociological approaches to researching intimate relationships and families.

Name
2. Describe important sociological research findings concerning intimate relationships and families.

Name
3. Explain how intimate and familial relationships are affected by multiple intersecting inequalities and ongoing events in other social institutions.

Common Course Numbering Crosswalk

Past Course Numbers
SOC 258

SOCI 2261 - Issues in Death and Dying

General

Subject code	Course Number	Course Title
SOCI	2261	Issues in Death and Dying

Description
Major personal and social issues related to the process of dying in our culture.

General Education Course
Academic

Learning Outcomes

Name
1. Be able to understand the diversity of the death experience and the various options available in coping with death and bereavement as shown by the students participation in class discussions and field trips.

Name
2. Better understand death and dying as social phenomena as shown by the students reaction papers.

Name
3. Have taken an in-depth look at her or his own death with a researched paper. Comprehension will be shown by the students grade on the paper.

Common Course Numbering Crosswalk

Past Course Numbers
SOC 262

SOCI 2310G - Contemporary Social Problems

General

Subject code	Course Number	Course Title
SOCI	2310G	Contemporary Social Problems

Description
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.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Identify and explain major social problems in the United States, and how social problems become constructed as problems.

Name
2. Describe and analyze policy related solutions associated with social problems from various perspectives.

Name
3. Critically examine social problems through the use of sociological theories, methods, and empirical techniques.

Name
4. Identify connections, both national and global, between social problems and social inequalities (e.g., social class, race/ethnicity, and gender/sexuality).

Common Course Numbering Crosswalk

Past Course Numbers
SOC 201G

SOIL 1XXX - SOIL Course to load subject code in Coursedog

General

Subject code	Course Number	Course Title
SOIL	1XXX	SOIL Course to load subject code in Coursedog

SOWK 2110G - Introduction to Human Services and Social Work

General

Subject code	Course Number	Course Title
SOWK	2110G	Introduction to Human Services and Social Work

Description
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.
Repeatable: up to 3 credits.

General Education Course
Area IV, Academic

Learning Outcomes

Name
1. Explain the interactions of social institutions, cultural factors, dimensions of identity, and environment with the human development and behavior of individuals.

Name
2. Demonstrate knowledge of the social work professions focus on addressing contemporary social issues in the United States.

Name
3. Describe the mission and services provided by social service agencies at the regional, national, and global levels.

Name
4. Demonstrate a basic understanding of the social work profession, its history, career opportunities, and contemporary issues facing social workers in the United States today.

Name
5. Recognize how students knowledge, skills, and attitudes impact their competence as helping professionals.

Common Course Numbering Crosswalk

Past Course Numbers
S WK 221G

SOWK 2111 - Women's Issues in Social Work

General

Subject code	Course Number	Course Title
SOWK	2111	Women's Issues in Social Work

Description
Examines gender-specific social problems and their identification and resolution through the use of social agencies and community resources.
Repeatable: up to 3 credits

General Education Course
Academic

Learning Outcomes

Name
1. Understand the commonalties among all women, identifying commonalties and differences among oppressed and dominant groups, recognize multiple oppressions, and respect diversity while conducting social work practice through readings, class discussions, and/or written assignments.

Name
2. Identify the various needs of women as individuals, family members and community members through readings, class discussions, and/or written assignments.

Name
3. Demonstrate skills in working effectively with diverse issues involving women with an emphasis on building strengths, interdependence, self-direction, shared power, and cooperation through experiential exercises, written assignments, companion book, and instructor presentations.

Name
4. Demonstrate skills in addressing issues that affect women such as parental issues, relationship problems, physical abuse, sexual abuse, crime, substance abuse, eating disorders, housing concerns, psychological issues and physical abilities written reports.

Name
5. Understand the importance of and demonstrating skills in caring and empathetic connection in the change process through written assignments, experiential activities in the companion book.

Name
6. Understanding the Importance of the Professionals Self-Care through experiential activities and journaling in the companion book.

Common Course Numbering Crosswalk

Past Course Numbers
S WK 251

SPAN 1110 - Spanish I

General

Subject code	Course Number	Course Title
SPAN	1110	Spanish I

Description
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 sentences.

General Education Course
Academic

Learning Outcomes

Name
1. Students can communicate on very familiar topics using a variety of words and phrases that they have practiced and memorized.

Name
2. Students can present information about myself and some other very familiar topics using a variety of words, phrases, and memorized expressions.

Name
3. Students can write short messages and notes on familiar topics related to everyday life.

Name
4. Students can often understand words, phrases, and simple sentences related to everyday life.

Name
5. Students can recognize pieces of information and some- times understand the main topic of what is being said.

Name
6. Students can understand familiar words, phrases, and sentences within short and simple texts related to everyday life.

Name
7. Students can sometimes understand the main idea of what they have read.

Common Course Numbering Crosswalk

Past Course Numbers
SPAN 111

SPAN 1120 - Spanish II

General

Subject code	Course Number	Course Title
SPAN	1120	Spanish II

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Students can participate in conversations on a number of familiar topics using simple sentences.

Name
2. Students can handle short social interactions in everyday situations by asking and answering simple questions.

Name
3. Students can present basic information on familiar topics using language they have practiced using phrases and simple sentences.

Name
4. Students can write briefly about most familiar topics and present information using a series of simple sentences.

Name
5. Students can understand the main idea in short, simple messages and presentations on familiar topics.

Name
6. Students can understand the main idea of simple conversations that they overhear.

Name
7. Students can understand the main idea of short and simple texts when the topic is familiar.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in SPAN1110 Spanish I

Common Course Numbering Crosswalk

Past Course Numbers
SPAN 112

SPAN 1210 - Elementary Spanish for Heritage Learners I

General

Subject code	Course Number	Course Title
SPAN	1210	Elementary Spanish for Heritage Learners I

Description
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 int he 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 reactive 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.

General Education Course
Academic

Learning Outcomes

Name
1. Interpersonal Communication: Students can engage in exchanges in culturally appropriate ways using understandable pronunciation on familiar topics using contextualized words, phrases, common idiomatic expressions, and simple sentences.

Name
2. Written expression: Students can write an essay/poem/story/creative sketch/lyric in the target language that describes a past/present/future (fictional) event to the reader.

Name
3. Interpretive listening: Students can understand familiar questions and statements from simple sentences in conversations.

Name
4. Interpretive reading: Students can identify the topic and some isolated facts from simple sentences in informational and fictional texts.

Name
5. Critical cultural awareness: Students can recognize and explain some of the issues facing bilingual communities in accordance to the instructor expertise and articulation with subsequent courses.

Common Course Numbering Crosswalk

Past Course Numbers
SPAN 113

SPAN 1220 - Spanish for Heritage Learners II

General

Subject code	Course Number	Course Title
SPAN	1220	Spanish for Heritage Learners II

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Interpersonal Communication: Students can engage in basic but authentic conversations through providing and obtaining information, expressing likes and dislikes, describing their daily lives, and narrating simple events in the past.

Name
2. Written expression: Students can write an essay/poem/story/creative sketch/lyric in the target language, and that describes a past (fictional) event to the reader.

Name
3. Interpretive listening: can identify the main idea in short conversations.

Name
4. Interpretive reading: Students can identify the topic and related information from simple sentences in short informational and fictional texts.

Name
5. Critical cultural awareness: Students can recognize and explain some of the issues facing bilingual communities in accordance to the instructor expertise and articulation with previous and subsequent courses.

Common Course Numbering Crosswalk

Past Course Numbers
SPAN 213

SPAN 2110 - Spanish III

General

Subject code	Course Number	Course Title
SPAN	2110	Spanish III

Description
This course is based on the integration of Student 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.

General Education Course
Academic

Learning Outcomes

Name
1. Students can participate in conversations on familiar topics using sentences and series of sentences.

Name
2. Students can handle short social interactions in everyday situations by asking and answering a variety of questions.

Name
3. Students can usually say what they want to say about themselves and their everyday life.

Name
4. Students can make presentations on a wide variety of familiar topics using connected sentences

Name
5. Students can write on a wide variety of familiar topics using connected sentences.

Name
6. Students can understand the main idea in messages and presentations on a variety of topics related to everyday life and personal interests and studies.

Name
7. Students can under- stand the main idea in conversations that they overhear.

Name
8. Students can understand the main idea of texts related to everyday life and personal interests or studies.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in SPAN1120 Spanish II

Common Course Numbering Crosswalk

Past Course Numbers
SPAN 211

SPAN 2120 - Spanish IV

General

Subject code	Course Number	Course Title
SPAN	2120	Spanish IV

Description
This course is based on the integration of Student Learning Outcomes across Interpersonal, Interpretive, and Presentational Modes of Communication at the Intermediate High 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.

General Education Course
Academic

Learning Outcomes

Name
1. Students can participate with ease and confidence in conversations on familiar topics.

Name
2. Students can usually talk about events and experiences in various time frames.

Name
3. Students can usually describe people, places, and things.

Name
4. Students can handle social interactions in everyday situations, sometimes even when there is an unexpected complication.

Name
5. Students can make presentations in a generally organized way on school, work, and community topics, and on topics they have researched.

Name
6. Students can make presentations on some events and experiences in various time frames.

Name
7. Students can write on topics related to school, work, and community in a generally organized way.

Name
8. Students can write some simple paragraphs about events and experiences in various time frames.

Name
9. Students can easily understand the main idea in messages and presentations on a variety of topics related to everyday life and personal interests and studies.

Name
10. Students can usually understand a few de- tails of what they overhear in conversations, even when something unexpected is expressed.

Name
11. Students can sometimes follow what they hear about events and experiences in various time frames.

Name
12. Students can easily understand the main idea of texts related to everyday life, personal interests, and studies.

Name
13. Students can sometimes follow stories and descriptions about events and experiences in various time frames.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in SPAN2110 Spanish III

Common Course Numbering Crosswalk

Past Course Numbers
SPAN 212

SPAN 2210 - Spanish for Heritage Learners III

General

Subject code	Course Number	Course Title
SPAN	2210	Spanish for Heritage Learners III

Description
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.

General Education Course
Academic

Learning Outcomes

Name
1. Interpersonal Communication: Students can exchange information on a wide variety of familiar topics in which the students use appropriate vocabulary to describe their daily lives and narrate events in the past with some degree of ease and confidence.

Name
2. Written expression: Students can write an essay/poem/story/creative sketch/lyric in the target language, and that effectively conveys a series of past (fictional) events to the reader that may include recent and distant past.

Name
3. Interpretive listening: Students can identify the main idea and key information in short straightforward conversations.

Name
4. Interpretive reading: Students can understand the main idea and key information in short straightforward informational and fictional texts.

Name
5. Critical cultural awareness: Students can recognize and explain some of the issues facing bilingual communities in accordance to the instructor expertise and articulation with previous and subsequent courses.

Common Course Numbering Crosswalk

Past Course Numbers
SPAN 214

SPED 2120 - Introduction to Special Education

General

Subject code	Course Number	Course Title
SPED	2120	Introduction to Special Education

Description
For paraprofessional students who will be working with a teacher in a Special Education classroom. This class will provide an overview of characteristics of children with special needs, legal issues, framework of effective instruction and a variety of practical teaching and learning strategies that are relevant to the tasks and academic demands required in inclusive classrooms.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

SPED 2130 - Culture, Learning and Academic Achievement in a Diverse Society

General

Subject code	Course Number	Course Title
SPED	2130	Culture, Learning and Academic Achievement in a Diverse Society

Description
Development of culturally responsive learning strategies, skills and utilization of support services, to enhance academic achievement.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

SPHS 2110 - Introduction to Communication Disorders

General

Subject code	Course Number	Course Title
SPHS	2110	Introduction to Communication Disorders

Description
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.
Repeatable: up to 3 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Describe normal human communication anatomy and processes as they relate to speech and language production.

Name
2. Describe the nature of speech, language, and hearing disorders and differences.

Name
3. Describe the principles of prevention, assessment and intervention of communication disorders.

Name
4. List requirements for licensure, certification, and other relevant professional credentials.

Name
5. Exhibit basic knowledge of contemporary professional issues in speech-language pathology.

Name
6. List possible psychosocial implications of various communication disorders.

Name
7. Identify cultural, educational, legal, and ethical issues related to communication disorders.

Name
8. Describe the scope of practice of speech-language pathologists and audiologists.

Common Course Numbering Crosswalk

Past Course Numbers
C D 221

SUR 143 - Civil/Survey Drafting I

General

Subject code	Course Number	Course Title
SUR	143	Civil/Survey Drafting I

Description
Introduction to drafting in the field of Civil Engineering. Drawings, projects, and terminologies related to topographic mapping, contour drawings, plan, and profiles as street/highway layout.
Prerequisite(s): A grade of C- or better in E T 109 or DRFT 109. (2+2P)

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in DRFT109 Computer Drafting Fundamentals or ET109 Computer Drafting Fundamentals

SUR 222 - Introduction to Geomatics

General

Subject code	Course Number	Course Title
SUR	222	Introduction to Geomatics

Description
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.
Prerequisite(s): A grade of C- or better in MATH 1250G or higher.

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in MATH1250G Trigonometry & Pre-Calculusor higher

SUR 285 - Precise Digital Mapping

General

Subject code	Course Number	Course Title
SUR	285	Precise Digital Mapping

Description
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.

Learning Outcomes

Name
1. Varies, please see course syllabus.

SUR 292 - Legal Principles and Boundary Law I

General

Subject code	Course Number	Course Title
SUR	292	Legal Principles and Boundary Law I

Description
Fundamentals of real property law; principles of land description; survey evidence and procedure in boundary determination, order of importance of conflicting elements; and liability, ethical and professional principles in boundary surveying; contemporary issues in boundary determination.

Learning Outcomes

Name
1. Varies, please see course syllabus.

SURG 120 - Surgical Technology Clinical I

General

Subject code	Course Number	Course Title
SURG	120	Surgical Technology Clinical I

Description
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. Repeatable: up to 4 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate of and adherence to Standard Precautions.

Name
2. Demonstrate professional conduct and ethical practice in the clinical setting.

Name
3. Demonstrate proper procedure for surgical scrub.

Name
4. Demonstrate proper procedure for gowning and gloving self and others.

Name
5. Identify and Utilize OR furniture and equipment appropriate to individual cases.

Name
6. Demonstrate preoperative case/ procedure preparation.

Name
7. Locate basic instruments and assemble specified instrument sets.

Name
8. Demonstrate knowledge and utilization of specialty and accessary equipment.

Name
9. Demonstrate care, handling, and assembly of common equipment.

Name
10. Create and maintain sterile field.

Name
11. Identify suture materials and stapling devices.

Name
12. Demonstrate preparation and handling techniques of suturing materials and stapling devices.

Name
13. Demonstrate knowledge of skin preparation.

Name
14. Discuss, demonstrate, and apply principles of surgical positioning.

Name
15. Identify, describe, and demonstrate the principles of transportation of the surgical patient.

Name
16. Define and demonstrate the handling, labeling, and containment of specimens.

Name
17. Explain and perform postoperative case, instruments, and room break down and preparation.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** SURG160 Surgical Procedures II and SURG260 Surgical Technology Clinical II
- **Prerequisite(s):** Admission to Surgical Technology Program necessary to enroll in the course and a grade of C or better in SURG140 Introduction to Surgical Technology

SURG 140 - Introduction to Surgical Technology

General

Subject code	Course Number	Course Title
SURG	140	Introduction to Surgical Technology

Description
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. Admission to Surgical Technology Program necessary to enroll in the course.

General Education Course
Technical

Learning Outcomes

Name
1. Identify the physical, interpersonal, legal and ethical aspects of the perioperative environment.

Name
2. Distinguish varied job roles and duties of surgical personnel and their responsibilities. Identify, evaluate, and perform patient care concepts.

Name
3. The student will know that these goals have been successfully completed when he/she completes the course as evaluated by the faculty in the department.

SURG 145 - Fundamentals of Perioperative Concepts & Techniques

General

Subject code	Course Number	Course Title
SURG	145	Fundamentals of Perioperative Concepts & Techniques

Description
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. Repeatable: up to 5 credits.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate principles and practices of aseptic/sterile techniques.

Name
2. Identify infectious processes and concepts of wound healing.

Name
3. Create a sterile field utilizing basic case preparation.

Name
4. Exhibit maintenance of the sterile field during procedures.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** SURG155 Pharmacology for the Surgical Technology
- **Prerequisite(s):**Admission to Surgical Technology Program necessary to enroll in the course

SURG 150 - Surgical Procedures I

General

Subject code	Course Number	Course Title
SURG	150	Surgical Procedures I

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Identify the physical, interpersonal, legal and ethical aspects of the perioperative environment.

Name
2. Distinguish varied job roles and duties of surgical personnel and their responsibilities. Identify, evaluate, and perform patient care concepts.

Name
3. The student will know that these goals have been successfully completed when he/she completes the course as evaluated by the faculty in the department.

Prerequisites/Corequisites

No Requirements

SURG 155 - Pharmacology for the Surgical Technology

General

Subject code	Course Number	Course Title
SURG	155	Pharmacology for the Surgical Technology

Description
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.
Admission to Surgical Technology Program necessary to enroll in the course.

General Education Course
Technical

Learning Outcomes

Name
1. Discuss basic concepts of surgical pharmacology and anesthesia.

Name
2. Analyze principles of anesthesia administration and explain the necessity of each component of anesthesia preparation of the surgical patient.

Name
3. Compare and contrast methods, agents and techniques of anesthesia administration and preparation.

Name
4. Correlate anesthesia monitoring devices with patient homeostasis.

Name
5. Explain anesthesia complications and interventions.

Name
6. Calculate medication conversions and dosages.

Name
7. Apply general terminology to medication use.

Name
8. Prepare and manage medications and solutions.

Name
9. Identify medications in the care of the surgical patient.

SURG 160 - Surgical Procedures II

General

Subject code	Course Number	Course Title
SURG	160	Surgical Procedures II

Description
This is 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.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate principles and practices of aseptic/sterile techniques.

Name
2. Relate pathophysiology to the noted surgical interventions.

Name
3. Analyze the relationship between cell pathology and disease.

Name
4. Examine hemodynamic disorders, inflammation and infection.

Name
5. Compare and contrast the various surgical pathologies of each of the following body systems.

Name
6. The student will know that these goals have been successfully completed when he/she completes the course as evaluated by the faculty in the department.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** SURG120 Surgical Technology Clinical I
- **Prerequisite(s):** Admission to Surgical Technology Program necessary to enroll in the course and a grade of C or better in SURG150 Surgical Procedures I

SURG 230 - Professional Readiness

General

Subject code	Course Number	Course Title
SURG	230	Professional Readiness

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Apply the theory, concepts and skills involving specialized materials, tools, equipment, procedures as they relate to the occupation and the business/industry.

Name
2. Apply the theory, concepts and skills involving regulations, laws, and interactions within and among political, economic, environmental, social and legal systems associated with the occupation and business/industry.

Name
3. Demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills.

Name
4. Demonstrate appropriate use of written, verbal and non-verbal communication skills using terminology of the occupation and the business/industry.

Prerequisites/Corequisites

Free Form Requirements

- **Corequisite(s):** SURG265 Surgical Technology Clinical III
- **Prerequisite(s):** A grade of C or better in SURG120 Surgical Technology Clinical I, SURG140 Introduction to Surgical Technology , SURG145 Fundamentals of Perioperative Concepts & Techniques, SURG150 Surgical Procedures I, SURG160 Surgical Procedures II and SURG260 Surgical Technology Clinical II

SURG 260 - Surgical Technology Clinical II

General

Subject code	Course Number	Course Title
SURG	260	Surgical Technology Clinical II

Description
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 functional 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 is necessary to enroll in the course.

General Education Course
Technical

Learning Outcomes

Name
1. Apply the theory, concepts and skills involving specialized materials, tools, equipment, procedures as they relate to the occupation and the business/industry.

Name
2. Apply the theory, concepts and skills involving regulations, laws, and interactions within and among political, economic, environmental, social and legal systems associated with the occupation and business/industry.

Name
3. Demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills.

Name
4.Demonstrate appropriate use of written, verbal and non-verbal communication skills using terminology of the occupation and the business/industry.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in SURG120 Surgical Technology Clinical I, SURG140 Introduction to Surgical Technology, and SURG145 Fundamentals of Perioperative Concepts & Techniques

SURG 265 - Surgical Technology Clinical III

General

Subject code	Course Number	Course Title
SURG	265	Surgical Technology Clinical III

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in SURG260 Surgical Technology Clinical II

THEA 1110G - Introduction to Theatre

General

Subject code	Course Number	Course Title
THEA	1110G	Introduction to Theatre

Description
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.

General Education Course
Area VI, Academic

Learning Outcomes

Name
1. Define and discuss basic theater terms and concepts.

Name
2. Discuss the fundamental elements of theatre, and the ways in which theatre differs from other art forms.

Name
3. Analyze and critique the elements of a live theatrical production.

Name
4. Identify and describe the roles of various theatre artists including actors, directors, playwrights, dramaturges, and designers.

Common Course Numbering Crosswalk

Past Course Numbers
THTR 101G

THEA 1210G - Acting for Non-Majors

General

Subject code	Course Number	Course Title
THEA	1210G	Acting for Non-Majors

Description
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.
Repeatable: up to 3 credits.

General Education Course
Area VI, Academic

Learning Outcomes

Name
1. Develop fundamental physical, vocal, analytical, and imaginative skills for acting for the stage.

Name
2. Apply fundamental techniques of voice and movement for the stage.

Name
3. Apply principles of play text analysis to understand story, character, and meaning.

Name
4. Gain a better understanding of an actor's approach to goals, tactics, and obstacles.

Name
5. Engage in character creation and development while preparing and performing monologues and scenes.

Name
6. Learn a common vocabulary to help discuss the process of acting.

Name
7. Employ collaborative methods of work with a partner and in groups.

Name
8. Observe and evaluate acting skills of other actors.

Common Course Numbering Crosswalk

Past Course Numbers
THTR 105

THEA 1221 - Beginning Acting

General

Subject code	Course Number	Course Title
THEA	1221	Beginning Acting

Description
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

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
THTR 110

THEA 1222 - Stage Movement

General

Subject code	Course Number	Course Title
THEA	1222	Stage Movement

Description
Physical techniques for the actor to develop kinesthetic awareness and skills in characterization, archetypes, and stage combat. Restricted to: THTR majors.

General Education Course
Technical

Learning Outcomes

Name
1. To provide fundamental training in a variety of movement techniques which can be applied to both theatrical performance and physical communication in everyday life.

Name
2. Observation and critical skills will be advanced through class participation and outside assignments.

Name
3. Class exercises are aimed at guiding participants to uncover their own creative expression, while working with efficient, healthy body alignment

Common Course Numbering Crosswalk

Past Course Numbers
THTR 120

THEA 1223 - The Art of Theatre

General

Subject code	Course Number	Course Title
THEA	1223	The Art of Theatre

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
THTR 130

THEA 1310 - Introduction to Costuming

General

Subject code	Course Number	Course Title
THEA	1310	Introduction to Costuming

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate basic hand and machine sewing skills.

Name
2. Use basic costume craft tools and techniques.

Name
3. Analyze fabric selection for the stage.

Name
4. Draft and use patterns.

Name
5. Take body measurements for patterning and construct a costume from those measurements.

Name
6. Combine interpersonal communication skills with costume construction skills.

Name
7. Analyze a script for costume design purposes.

Name
8. Build a garment.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): THEA1310L Costume Craft Lab

Common Course Numbering Crosswalk

Past Course Numbers
THTR 142

THEA 1310L - Costume Craft Lab

General

Subject code	Course Number	Course Title
THEA	1310L	Costume Craft Lab

Description
Class members will assist in construction for productions in a studio environment.

General Education Course
Technical

Learning Outcomes

Name
1. This laboratory class compliments THEA 1310. Introduction to Costuming.

Name
2. It gives the student an opportunity to put into practice the skills learned in THEA 1320 as well as be introduced to and participate in the day-to-day operations of the Costume Shop.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): THEA1310 Introduction to Costuming

Common Course Numbering Crosswalk

Past Course Numbers
THTR 142 L

THEA 1415 - Running Crew I

General

Subject code	Course Number	Course Title
THEA	1415	Running Crew I

Description
Students learn about backstage and front of house production positions and work on a technical aspect of a production in a rehearsal and performance environment.

General Education Course
Technical

Learning Outcomes

Name
1.Students will learn one, or more, of the basic technical elements of theatrical crew work.

Common Course Numbering Crosswalk

Past Course Numbers
THTR 149

THEA 2221 - Intermediate Acting: Scene Study and Monologues

General

Subject code	Course Number	Course Title
THEA	2221	Intermediate Acting: Scene Study and Monologues

Description
Monologues and scene work, using character and script analysis.

General Education Course
Academic

Learning Outcomes

Name
1. Students will gain further insight into the craft of acting and the techniques and skills required to present a successful stage performance.

Name
2. Via the presentation of varied scenes and monologues, students will be exposed to a variety of theatrical literature.

Name
3. Via research, students will gain knowledge of successful actors, acting techniques, and career advice.

Common Course Numbering Crosswalk

Past Course Numbers
THTR 210

THEA 2222 - Intermediate Acting for Non-Majors

General

Subject code	Course Number	Course Title
THEA	2222	Intermediate Acting for Non-Majors

Description
A continuation of THEA 1210 with an emphasis on monologues, scenes and characterization.

General Education Course
Academic

Learning Outcomes

Name
1. Apply fundamental techniques of voice and movement for the stage.

Name
2. Analyze a dramatic text and interpret a character and develop the skills necessary to score a script for character development.

Name
3. Perform specific choices to create and perform goal-driven characters.

Name
4. Demonstrate various physical and mental relaxation techniques.

Name
5. Identify internal and external techniques to increase actors emotional range.

Name
6. Demonstrate sensory exercises and apply this technique to scene work.

Name
7. Articulate and implement key terminology of modern acting techniques.

Name
8. Develop and articulate a basic personal artistic process.

Name
9. Demonstrate the ability to work cooperatively on a creative/ interpretative project.

Name
10. Begin to develop professionalism and development of a critical eye through practice giving and receiving peer feedback, adherence to deadlines, memorization, flexibility and coachability.

Common Course Numbering Crosswalk

Past Course Numbers
THTR 206

THEA 2310 - Stagecraft

General

Subject code	Course Number	Course Title
THEA	2310	Stagecraft

Description
Student will explore basic skills for scenic designers and techniques of set construction for the stage, including building scenery, rigging, painting and properties.

General Education Course
Technical

Learning Outcomes

Name
1.Demonstrate a range of technical skills, which will qualify them to assist in the basic technical production of a play.

Name
2.Demonstrate and apply how to safely and competently use hand tools, power tools, electrical, and electronic stage equipment.

Name
3.Analyze the technical aspects of a play in performance.

Name
4.Read and construct scenery from ground plans, elevations, and drawings.

Name
5.Analyze a script from the perspective of a designer, artistic, and/or technical director.

Common Course Numbering Crosswalk

Past Course Numbers
THTR 141

THEA 2310L - Stagecraft Laboratory

General

Subject code	Course Number	Course Title
THEA	2310L	Stagecraft Laboratory

Description
Class members will assist with construction for productions in a studio environment.

General Education Course
Technical

Learning Outcomes

Name
1. History of scenic design and the development of present day stage design.

Name
2. How to create and interpret basic scenic ground plans, elevations, and detail drawings.

Name
3. To construct basic scenic structures to include flats and platforms.

Name
4. Various techniques of scenic painting and decorating.

Name
5. The installations of theatre lighting instruments and sound equipment.

Common Course Numbering Crosswalk

Past Course Numbers
THTR 141 L

THEA 2340 - Introduction to Design

General

Subject code	Course Number	Course Title
THEA	2340	Introduction to Design

Description
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: THTR Majors.

General Education Course
Technical

Learning Outcomes

Name
1. Apply design vocabulary and descriptions when speaking about design.

Name
2. Identify design tools and make choices about where to use them.

Name
3. Apply the foundation information in understanding how design tools work.

Name
4. Apply correct terminology in assessing design and script analysis.

Name
5. Read and understand some of the design documents commonly used in the industry.

Common Course Numbering Crosswalk

Past Course Numbers
THTR 250

THEA 2415 - Running Crew II

General

Subject code	Course Number	Course Title
THEA	2415	Running Crew II

Description
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.

General Education Course
Technical

Learning Outcomes

Name
1. To provide students with hands on experience participating in being a member of a running crew on a theatrical production.

Name
2. Students will learn one, or more, of the basic technical elements of theatrical crew work.

Common Course Numbering Crosswalk

Past Course Numbers
THTR 249

THEA 2421 - Vocal Production for the Actor

General

Subject code	Course Number	Course Title
THEA	2421	Vocal Production for the Actor

Description
Exploration and development of the actor's vocal instrument, including relaxation, projection, diction and articulation.
Repeatable: up to 3 credits.
Restricted to: THTR majors.

General Education Course
Academic

Learning Outcomes

Name
1. Apply concepts of alignment, relaxation, breath support, resonance, projection, and articulation for your personal and professional benefit.

Name
2. Refine vocal 'problem solving' which will carry into your personal and professional life.

Name
3. Apply vocal concepts to a variety of text in order to understand and appreciate your voice and its capabilities, both intellectually and sensorially.

Name
4. Apply the vocal/speech tools consciously and behavior-ally, as an aid in the search for musicality of the voice in conjunction with truth and believability.

Common Course Numbering Crosswalk

Past Course Numbers
THTR 220

THEA 2993 - Workshop in Theatre

General

Subject code	Course Number	Course Title
THEA	2993	Workshop in Theatre

Description
Required for all freshman and sophomore theatre majors, this course coordinates all processes within Theatre Arts, providing a forum for discussion and feedback. Repeatable: up to 4 credits.

General Education Course
Academic

Learning Outcomes

Name
1. No student learning outcomes for this course.

Common Course Numbering Crosswalk

Past Course Numbers
THTR 200

THEA 2996 - Topics in Theater

General

Subject code	Course Number	Course Title
THEA	2996	Topics in Theater

Description
Specific subjects to be announced in the Schedule of Classes. Repeatable: for a maximum of 9 credits.

General Education Course
Academic

Learning Outcomes

Name
1. Varies, please see course syllabus.

Common Course Numbering Crosswalk

Past Course Numbers
THTR 222

WELD 1110 - Introduction to Welding Fundamentals

General

Subject code	Course Number	Course Title
WELD	1110	Introduction to Welding Fundamentals

Description
This course focuses on the fundamental techniques employed in the welding field. It is a laboratory approach to understanding and building skills in welding related areas including shop safety, hand and portable power tool usage, and welding.

General Education Course
Technical

WELD 1113 - General Welding for the Hobbyist

General

Subject code	Course Number	Course Title
WELD	1113	General Welding for the Hobbyist

Description
This course introduces welding safety, welding, thermal cutting, use of hand and power tools, and basic fabrication for the “do it yourselfer” or hobbyist. This course will include thermal cutting utilizing oxy-acetylene cutting and plasma arc cutting, welding using SMAW Shielded Metal Arc Welding (stick) and GMAW-Gas Metal Arc Welding (mig) processes, and basic joint configuration. Skill practice will be encouraged through the building of at least one comprehensive project. All projects must be approved by and will be under the guidance of the instructor.

General Education Course
Technical

Learning Outcomes

Name
1. Safely operate hand and machine tools.

Name
2. Perform basic welding on various materials and material thickness.

Name
3. The student should be able to safely make adjustments to the different machines being utilized in the lab.

Name
4. Students wishing to use and/or learn how to use their personally owned equipment will also be allowed to bring them to learn how they operate and make needed adjustments.

Name
5. The student will also be able to perform minor repair and maintenance on the various equipment used in the welding industry.

WELD 1120 - Print Reading for Welders

General

Subject code	Course Number	Course Title
WELD	1120	Print Reading for Welders

Description
Provides students with the knowledge to read and interpret prints and welding symbols and transfer this knowledge to the workplace with layout tools and measuring instruments.

General Education Course
Technical

Learning Outcomes

Name
1. Identify, read and follow AWS welding symbols.

Name
2. Demonstrate the ability to interpret orthographic and isometric drawings.

Name
3. Demonstrate the ability to read/ interpret pipe welding drawing and schematics.

Name
4. Demonstrate proficiency in the mathematics utilized in welding and fabrication.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): OETS118 Mathematics for Technicians

WELD 1130 - SMAW (Shielded Metal Arc Welding) I

General

Subject code	Course Number	Course Title
WELD	1130	SMAW (Shielded Metal Arc Welding) I

Description
This course will cover introductory theory and practical applications of structural plate welding, welding safety,handheld torch cutting operations and equipment set up. The development of student skills using the Shielded Metal Arc Welding process in all positions will be stressed. The standards of this course are set by the American Welding Society and utilized in both classroom study and laboratory work.

General Education Course
Technical

Learning Outcomes

Name
1. Perform welds on various joints in all positions.

Name
2. Demonstrate proper shop safety.

Name
3. Demonstrate proficiency in identification of electrode classification and proper storage.

Name
4. Identify SMAW power sources and their characteristics.

Name
5. Maintain, use, and safely operate SMAW equipment.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s)/Corequisite(s): WELD1110 Introduction to Welding Fundamentals

WELD 1140 - GMAW (Gas Metal Arc Welding) I

General

Subject code	Course Number	Course Title
WELD	1140	GMAW (Gas Metal Arc Welding) I

Description
Introduces Gas Metal Arc Welding (GMAW) short circuit welding safety, machine set up and shutdown procedures. Topics include personal protective equipment (PPE), GMAW uses, advantages and disadvantages, constant voltage (CV) power source, polarity, electrode types, shielding gasses, and weld discontinuities and defects identification and corrective practices. Lab exercises will include various joints in all positions.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate the ability to safely operate the Gas Metal Arc Welding equipment.

Name
2. Demonstrate Gas Metal Arc Welding theory and application.

Name
3. Demonstrate the ability to perform Gas Metal Arc Welding on various joints in all positions.

Name
4. Demonstrate the ability to fabricate assigned projects while applying proper tolerance to finished projects.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): WELD1110 Introduction to Welding Fundamentals

WELD 1155 - GTAW (Gas Tungsten Arc Welding) I

General

Subject code	Course Number	Course Title
WELD	1155	GTAW (Gas Tungsten Arc Welding) I

Description
A basic course designed to provide the student with the ability to setup, maintain and operate Gas Tungsten Arc Welding (GTAW) equipment safely. Develop skills to weld structural joints to bend tests standards utilizing various metals. Weld quality will be measured in accordance with American Welding Society standards.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate the ability set up GTAW equipment for use, inspect equipment prior to use, perform minor maintenance, and identify potential hazards.

Name
2. Demonstrate the ability to perform GTAW on various base metals in all positions.

Name
3. Demonstrate the understanding of basic metallurgical differences in various base and filler metals.

Name
4. Demonstrate an understanding of welding currents and power sources.

Prerequisites/Corequisites

Free Form Requirements
Corequisite(s): WELD1110 Introduction to Welding Fundamentals

WELD 1171 - Layout and Fabrication

General

Subject code	Course Number	Course Title
WELD	1171	Layout and Fabrication

Description
This class is an introduction to general layout and fabrication techniques as related to structural welding. Emphasis will be on construction of small projects to tolerances using prints. A variety of welding processes will be used in all positions.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate the ability to fabricate projects.

Name
2. Be able to use shop drawing and/or prints to create projects and develop the bill of materials for the project.

Name
3. Demonstrate ability to properly follow WPS (Welding Procedure Specification) during fabrication.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in WELD1130 SMAW (Shielded Metal Arc Welding) I, WELD1140 GMAW (Gas Metal Arc Welding) I, and WELD1155 GTAW (Gas Tungsten Arc Welding) I

WELD 1191 - Welded Art

General

Subject code	Course Number	Course Title
WELD	1191	Welded Art

Description
Students explore the possibilities of welded art.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate knowledge of the different forms of welded art.

WELD 1210 - Flux Cored Arc Welding

General

Subject code	Course Number	Course Title
WELD	1210	Flux Cored Arc Welding

Description
Principles of flux cored arc welding (FCAW) terminology, safety procedures, and equipment set-up. Students will practice welding structural joints in all positions using the FCAW process.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate the setup of FCAW equipment.

Name
2. Demonstrate safe operations of FCAW equipment.

Name
3. Demonstrate minor repairs/ maintenance of equipment.

Name
4. Perform FCAW welds to minimum required specifications.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in WELD1140 GMAW (Gas Metal Arc Welding) I

WELD 1220 - Pipe Welding I

General

Subject code	Course Number	Course Title
WELD	1220	Pipe Welding I

Description
Stresses the theory and practical application of pipe welding in the 1-G and 2-G positions. This course will develop skills in the fit-up and technique of welding pipe, using electrodes and various Welding process.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate an understanding of 1-G and 2-G pipe welding using a variety of pipe sizes.

Name
2. Demonstrate the ability to produce destructive test samples to AWS and/ or API standards.

Name
3. Demonstrate the ability to prepare, fit and tack pipe to specifications, getting pipe ready to weld.

Name
4. Demonstrate knowledge of appropriate pipe fitting terminology and calculations.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in WELD1110 Introduction to Welding Fundamentals, WELD1130 SMAW (Shielded Metal Arc Welding) I, and WELD1140 GMAW (Gas Metal Arc Welding) I

WELD 1310 - Metallurgy

General

Subject code	Course Number	Course Title
WELD	1310	Metallurgy

Description
This course includes a study of ferrous and nonferrous metals from ore to the finished products. Emphasis is placed on metal alloys, heat-treating, hard surfacing, welding techniques, forging, foundry processes, and mechanical properties of metal including hardness, machinability, and ductility. Technical terms used in the various phases of metallurgy, from early history to present.

General Education Course
Technical

Learning Outcomes

Name
1. Describe metals and alloys commonly used in industry.

Name
2. Describe mechanical properties of metals including stresses and failures.

Name
3. Describe the metalworking processes of casting, forming, and machining.

Name
4. Describe the two basic processes and state the four major purposes of heat treatment.

Prerequisites/Corequisites

No Requirements

WELD 2130 - SMAW (Shielded Metal Arc Welding) II

General

Subject code	Course Number	Course Title
WELD	2130	SMAW (Shielded Metal Arc Welding) II

Description
Reviews and builds upon SMAW-1 skills. Students will learn joint design and AWS standards for welder qualification testing.

General Education Course
Technical

Learning Outcomes

Name
1. Meet AWS acceptance criteria for weld quality and destructive tests (bend test).

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in WELD1130 SMAW (Shielded Metal Arc Welding) I

WELD 2140 - GMAW (Gas Metal Arc Welding) II

General

Subject code	Course Number	Course Title
WELD	2140	GMAW (Gas Metal Arc Welding) II

Description
Advanced course in the gas metal arc welding process (GMAW). Instruction includes trouble shooting, and the correct selection and application of consumables. Students practice GMAW of carbon and stainless steel on structural joints in all positions. Preparation of test samples will also be emphasized.

General Education Course
Technical

Learning Outcomes

Name
1. Perform more demanding and difficult welds utilizing GMAW advanced processes.

Name
2. Students will also be able to prepare test samples for examination and destructive testing according to AWS SENSE guidelines.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in WELD1140 GMAW (Gas Metal Arc Welding) I

WELD 2155 - GTAW (Gas Tungsten Arc Welding) II

General

Subject code	Course Number	Course Title
WELD	2155	GTAW (Gas Tungsten Arc Welding) II

Description
A continuation of GTAW I. This course is designed to provide the student with the ability to setup, maintain and operate Gas Tungsten Arc Welding (GTAW) equipment safely. Develop skills to weld structural joints to bend tests standards utilizing various metals. Weld quality will be measured in accordance with American Welding Society standards.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate the ability to perform increasingly complex welds.

Name
2. Demonstrate the ability set up GTAW equipment for use, inspect equipment prior to use, perform minor maintenance, and identify potential hazards.

Name
3. Demonstrate the ability to perform GTAW on various base metals in all positions.

Name
4. Demonstrate the understanding of basic metallurgical differences in various base and filler metals.

Name
5. Demonstrate an understanding of welding currents and power sources.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in WELD1155 GTAW (Gas Tungsten Arc Welding) I

WELD 2220 - Pipe Welding II

General

Subject code	Course Number	Course Title
WELD	2220	Pipe Welding II

Description
Stresses the theory and practical application of 5-G and 6-G pipe welding. This course will develop skills in the technique of pipe welding, using various Welding processes.

General Education Course
Technical

Learning Outcomes

Name
1. Demonstrate an understanding of 5-G and 6-G pipe welding using a variety of pipe sizes.

Name
2. Demonstrate the ability to produce destructive test samples to AWS and/or API standards.

Name
3. Demonstrate the ability to prepare, fit and tack pipe to specifications, getting pipe ready to weld.

Name
4. Demonstrate knowledge of appropriate pipe fitting terminology and calculations.

Prerequisites/Corequisites

Free Form Requirements
Prerequisite(s): A grade of C or better in WELD1220 Pipe Welding I

WELD 2290 - Welder Qualifications

General

Subject code	Course Number	Course Title
WELD	2290	Welder Qualifications

Description
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, and basics of welding codes.

General Education Course
Technical

Learning Outcomes

Name
1. Pass the AWS and ASME Welder Performance Qualification Tests in all processes and all positions.

Name
2. Recognize the role of welding inspection and testing in industry.

Name
3. Identify essential information for welding procedure and performance qualification.

Name
4. Identify essential welding and inspection information from Welding Procedure Specifications (WPSs).

Name
5. Identify essential welding and inspection information from AWS D1.1, Structural Welding. Code - Steel.

Name
6. Identify essential welding and inspection information from ASME, Boiler and Pressure Vessel Code - Section IX.

Name
7. Describe the basic principles of non-destructive testing methods.

Prerequisites/Corequisites

Free Form Requirements

Prerequisite(s): A grade of C or better in OETS118 Mathematics for Technicians, WELD1120 Print Reading for Welders, WELD1130 SMAW (Shielded Metal Arc Welding) I, WELD1140 GMAW (Gas Metal Arc Welding) I, WELD1155 GTAW (Gas Tungsten Arc Welding) I, WELD1210 Flux Cored Arc Welding, WELD1310 Metallurgy and WELD2155 GTAW (Gas Tungsten Arc Welding) II

WELD 2996 - Special Topics

General

Subject code	Course Number	Course Title
WELD	2996	Special Topics

Description

Topics to be announced in the Schedule of Classes.
Repeatable: for a maximum of 12 credits.

General Education Course

Technical

Learning Outcomes

Name
1. Varies, please see course syllabus.