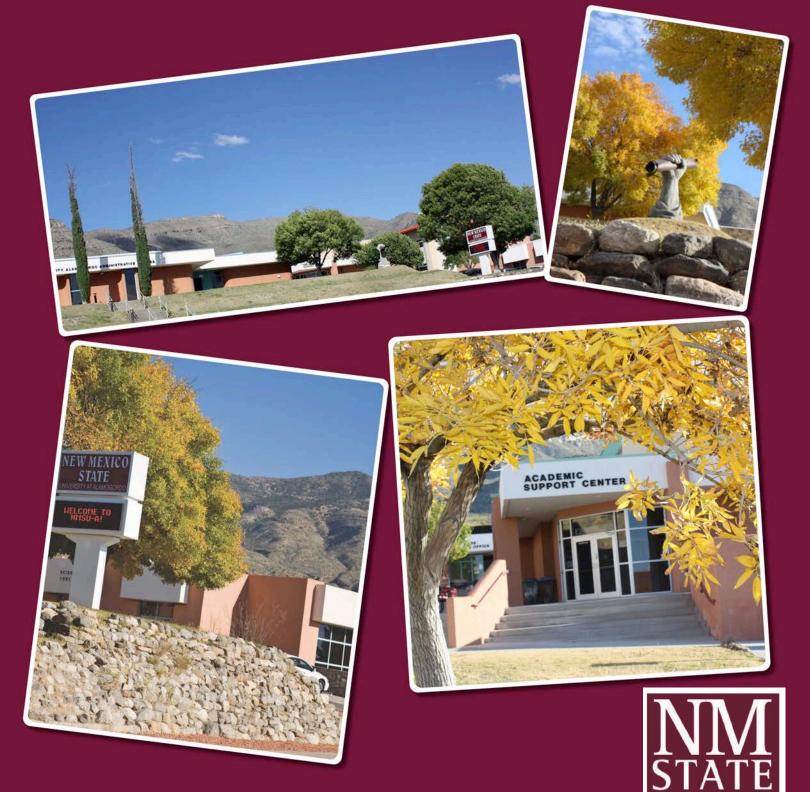
NMSU Alamogordo 2019-2020 Course Catalog



BE BOLD. Shape the Future.

TABLE OF CONTENTS

Leadership Skills - Certificate	. 79
Computer Science	79
Computer Science - Associate of Applied Science	80
Criminal Justice	. 81
Criminal Justice - Associate Degree	81
Early Childhood	83
Early Childhood - Associate Degree	83
Education	85
Education - Associate Degree, Elementary Concentration	85
Education - Associate Degree, Secondary Math Concentration	
Education - Associate Degree, Secondary Science Concentrat	
Emergency Medical Services (EMS) Intermediate	90
Emergency Medical Services (EMS) Intermediate - Associate Applied Science	
EMS Course Completion Certificates	. 92
Engineering Technology	92
Engineering Tech - AAS Electronics Concentration	93
Engineering Tech - AAS Biomedical Equip Concentration	94
Fine Arts	. 95
Fine Arts - Associate Degree	95
General Engineering	97
General Engineering - Associate of Science	. 97
Graphic Design	99
Art and Graphic Design - Certificate	99
Graphic Design - Associate of Applied Science	99
Information Technology	100
Information Technology - Associate of Applied Science	101
Online Degrees/Certificates	102
Paralegal Studies	103
Legal Assistant - Certificate	103
Paralegal Studies - Associate of Applied Science	104
Photographic Technology	105
Photographic Technology - Certificate	105
Prebusiness	106
Prebusiness - Associate Degree	106
Renewable Energy Systems Technology	107
Advanced Renewable Energy Systems - Certificate	108
Photo Voltaic Entry Level - Grid Tie - Certificate	108
Renewable Energy Systems Technology - Associate of Applie Science	
Science	110

Science - Associate Degree	110	CHIN-CHINESE	
Social Work	112	CHME-CHEMICAL & MATERIALS ENGR	
Social Work - Associate Degree	112	CHSS - COMM HEALTH/SOC SRVCS	
Course Descriptions	115	CMI - CINEMA & FILM/VIDEO PROD	145
A S-ARTS AND SCIENCES	117	CMT-CREATIVE MEDIA TECHNOLOGY	
A ST- APPLIED STATISTICS	117	COLL-COLLEGE	150
ACCT-ACCOUNTING	117	COMM-COMMUNICATION	150
ACES-AGRI, CONSUMER & ENV SCIE	117	CSEC-CYBERSECURITY	151
AERO-AEROSPACE STUDIES	117	CTEC-CYBER TECHNOLOGY	151
AERT-AEROSPACE TECHNOLOGY	118	CTFM-CLTHNG/TXTLS/FSHN MRCHDSG	153
AG E-AGRICULTURAL ECONOMICS	119	DANC-DANCE	153
AGRO-AGRONOMY	119	DAS-DENTAL ASSISTING	155
AHS-ALLIED HEALTH SCIENCE	119	DHYG - DENTAL HYGIENE/HYGIENIST	156
ANSC-ANIMAL SCIENCE	120	DMS-DIAGNOSTIC MED SONOGRAPHY	158
ANTH-ANTHROPOLOGY	121	DRFT-DRAFTING	160
ARCT-ARCHITECTURE	122	E E-ELECTRICAL ENGINEERING	163
ART-ART		E S-ENVIRONMENTAL SCIENCE	164
ASTR-ASTRONOMY	125	E T-ENGINEERING TECHNOLOGY	164
AUTO-AUTOMOTIVE TECHNOLOGY	126	ECED-EARLY CHILDHOOD EDUCATION	166
AVIM-AVIATION MAINTENANCE	128	ECON-ECONOMICS	
AXED-AGRICULTURAL EXTN EDUC	128	EDUC-EDUCATION	
B A-BUSINESS ADMINISTRATION	129	ELA - EDUC LEADERSHIP & ADMIN	168
BCHE-BIOCHEMISTRY	129	ELT - ELECTRONICS TECHNOLOGY	169
BCIS-BUSINESS COMPUTER SYSTEMS	129	ELWK-ELECTRICAL LINEWORKER	170
BCT-BUILDING CONSTRUCTION TECH	129	ENGL-ENGLISH	171
BIOL-BIOLOGY	131	ENGR-ENGINEERING	172
BLAW-BUSINESS LAW	133	EPWS-ETMLGY/PLNT PTHLGY/WD SCI	172
BMGT-BUSINESS MANAGEMENT	133	FCS-FAMILY AND CHILD SCIENCE	172
BOT-BUSINESS OFFICE TECHNOLOGY	135	FCSE-FAMILY & CONSUMER SCI EDU	172
BUSA-BUSINESS ADMINISTRATION	137	FIN-FINANCE	173
C D-COMMUNICATION DISORDERS	137	FIRE-FIRE INVESTIGATION	173
C E-CIVIL ENGINEERING	137	FREN-FRENCH	175
C EP-COUNSELING & EDUC PSY	138	FSTE-FOOD SCIENCE & TECHNOLOGY	175
C J-CRIMINAL JUSTICE	138	FWCE-FISH,WILDLF,CONSERV ECOL	175
C S-COMPUTER SCIENCE	139	GENE-GENETICS	175
CCDE-DEVELOPMENTAL ENGLISH	140	GEOG-GEOGRAPHY	175
CCDL-DEVELOPMENTAL ESL	140	GEOL-GEOLOGY	
CCDM-DEVELOPMENTAL MATHEMATICS	140	GER-GERMAN	176
CCDR-DEVELOPMENTAL READING	141	GOVT-GOVERNMENT	176
CCDS-DEVELOPMENTAL SKILLS	141	HIST-HISTORY	177
CHEF-CULINARY ARTS		HIT-HEALTH INFO TECHNOLOGY	177
CHEM-CHEMISTRY		HNDS-HUMAN NUTRITION & DIET	178

HON-HONORS	178
HORT-HORTICULTURE	180
HOST-HOSPITALITY AND TOURISM	180
HRTM-HOTEL/RESTRNT/TOURISM MGT	181
HVAC-HEATING/AC/REFRIGERATION	182
I E-INDUSTRIAL ENGINEERING	183
INMT - INDUSTRIAL MAINTENANCE	183
INTEGRATED NATURAL SCIENCES	184
JOUR-JOURNALISM	184
JPNS-JAPANESE	184
L SC-LIBRARY SCIENCE	185
LANG-LANGUAGE	187
LAWE-LAW ENFORCEMENT	187
LIB-LIBRARY SCIENCE	187
LING-LINGUISTICS	187
M E-MECHANICAL ENGINEERING	188
M SC-MILITARY SCIENCE	188
MAT-AUTOMATION & MANUFACTURING	189
MATH-MATHEMATICS	190
MGT-MANAGEMENT	191
MKTG-MARKETING	192
MUS-MUSIC	192
NA - NURSING ASSISTANT	194
NAV-NAVAJO	196
NURS-NURSING	196
OEBM-BIOMEDICAL TECHNOLOGY	200
OECS-COMPUTER TECHNOLOGY	200
OEEM- PARAMEDIC	203
OEET- ELECTRICAL TRADES	205
OEGR-DIGITAL GRAPHIC TECH	206
OEGS-GEOGRAPHIC INFO SYS	206
OEPT-PHOTOGRAPHIC TRADES	207
OETS-TECHNICAL STUDIES	207
P E-PHYSICAL EDUCATION	207
PE-P-PHYSICAL EDUCATION	209
PHIL-PHILOSOPHY	209
PHLS-PUBLIC HEALTH SCIENCES	209
PHYS-PHYSICS	209
PL-S-PARALEGAL SERVICES	211
PORT-PORTUGUESE	212
PSY-PSYCHOLOGY	212
RADT-RADIOLOGIC TECHNOLOGY	213

	RESP - RESPIRATORY THERAPY	214
	RGSC-RANGE SCIENCE	215
	S WK-SOCIAL WORK	215
	SMET-SCIENCE/MATH/ENG/TECH	215
	SOC-SOCIOLOGY	215
	SOIL-SOIL	216
	SP M-SPORTS MEDICINE	216
	SPAN-SPANISH	217
	SPCD-ENGLISH AS A SECOND LNG	217
	SPED-SPECIAL EDUCATION	217
	STAT-STATISTICS	217
	SUR-SURVEYING	218
	SURG-SURGICAL TECHNOLOGY	218
	TCEN-ENVIRONMENTAL/ENERGY TECH	219
	THTR-THEATRE	221
	UNIV-UNIVERSITY STUDIES	222
	W S-WOMEN'S STUDIES	222
	WATR-WATER UTILITIES	222
	WELD-WELDING TECHNOLOGY	224
Per	sonnel	226
Inde	ex	228

ALAMOGORDO ACADEMIC CATALOG

New Mexico State University Alamogordo Course Catalog 2019-2020 (Effective Summer 2019 through Spring 2025)

New Mexico State University Alamogordo, in compliance with applicable laws and in furtherance of its commitment to fostering an environment that welcomes and embraces diversity, does not discriminate on the basis of age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, retaliation, serious medical condition, sex (including pregnancy), sexual orientation, spousal affiliation, or protected veteran status in its programs and activities, including employment, admissions, and educational programs and activities. Inquiries may be directed to the Executive Director, Title IX and Section 504 Coordinator, Office of Institutional Equity, P.O. Box 30001, 1130 E. University Avenue, Las Cruces, NM 88003; 575-646-3635; equity@nmsu.edu.

NMSU-A is committed to providing reasonable accommodations to qualified individuals with disabilities upon request. To request this document in an alternate format or to request an accommodation, please contact Accessibility Services, 575-439-3721, asdnmsua@nmsu.edu.

New Mexico State University Alamogordo ofrece programas educativos a todos los estudiantes sin discriminación basada en edad, color, discapacidad, identidad sexual, información genética, origen nacional, raza, religión, retaliación, problemas serios de salud, sexo (incluyendo personas embarazadas), orientación sexual, afiliación conyugal e estado de veterano. Además, Título IX prohíbe discriminación sexual, inclusive conducta sexual inapropiada, violencia sexual (abuso sexual, violación), persecución sexual y retaliación.

Any item in this catalog is subject to modification at any time by proper administrative procedure.

The ultimate responsibility for planning an academic program in compliance with university, community college, college and departmental requirements rests with the student. In addition, the student bears ultimate responsibility for understanding all matters of the Course Catalogs.

WELCOME FROM THE PRESIDENT

Welcome to New Mexico State University Alamogordo. NMSU-A began offering classes in 1958 to the citizens of Otero County and the surrounding area. We reaffirm our commitment to the diverse population of our region and will strive to provide high quality college classes to our community and the next generation of college students.

We are pleased that you have chosen NMSU-A. We take pride in the success of our students and are thrilled to be your community college. The mission of New Mexico State University Alamogordo is to help all students develop skills that will lead to a lifelong career and love of learning.

Our number one goal within our mission is to help you complete a degree or certificate that will allow you to either continue your education or leave our campus and obtain a well-paying job. We are dedicated to your success and will help you to the best of our ability along the way. NMSU-A is a friendly campus with caring staff and faculty who promise to provide you opportunities and experiences that will help you complete your education.

Starting college at NMSU-A is a wise decision, and it will provide you a cost savings in the thousands of dollars over the course of your college education. We have a wide variety of degree and certificate offerings, excellent state of the art facilities, fantastic faculty, a wonderful library, and convenient contemporary computer access. Our Student Success Center can help you with Financial Aid and will assist you in choosing classes that best fit your goals.

We are proud to point out that our online courses are Quality Matters certified. This means NMSU-A online courses are rigorous and will prepare you for success through a highly efficient and superior delivery system.

Lastly, know that our responsibility is to help you complete the degree or certificate that you wish to pursue. Our focus is on your success through understanding, patience, and a real desire for you to accomplish your educational and career goals.

Please feel free to contact us if you need anything related to your college experience at NMSU-A. Good luck in this next chapter of your education and again, let us know how we may help.

Dr. Ken Van Winkle President, New Mexico State University Alamogordo

ABOUT NMSU ALAMOGORDO

New Mexico State University Alamogordo (NMSU-A) is situated in the foothills, at the base of the Sacramento Mountains. This vantage point overlooks the city of Alamogordo and the Tularosa Basin. The service area of the college includes Holloman Air Force Base (HAFB), White Sands Missile Range, and stretches beyond the view to include the Mescalero Apache Reservation and approximately twenty villages and towns in Otero County. Much of the south central New Mexico region benefits from the convenient location of the campus.

NMSU-A was established in 1958 with an initial enrollment of 278 students. The classes were held at night on the Alamogordo High School campus. The objective of this post-secondary educational venture was to serve the military and civilian personnel from HAFB, as well as students from the local non-military population.

Over the years enrollment has expanded. At the same time, the number and the character of students' objectives have also grown. The basic twoyear traditional university-credited education has been expanded and enriched. NMSU-A has evolved from offering only two-year traditional education courses to providing career/technical programs and courses for personal enrichment as well as selected bachelor completion programs through New Mexico State University (NMSU) Las Cruces Distance Education.

NMSU-A is a two-year comprehensive community college dedicated to the concept of high-quality, cost-effective education that meets the needs of a diverse community. While some students continue to value the long established core courses, others seek alternatives to the traditional liberal arts education.

Mission of the College

The mission of New Mexico State University Alamogordo is to provide quality learning opportunities for individuals in the diverse communities we serve.

Vision Statement

New Mexico State University at Alamogordo provides support, inspiration, and intellectual challenge for the students in the diverse communities we serve. We prepare students to be critical and creative thinkers, effective communicators, goal-oriented, socially conscious, prepared for academic and career success, and lifelong learners.

Core Values

We Value Excellence in education as a lifelong opportunity to increase productivity, expand visions, and encourage enjoyment of learning.

We Value Integrity in education through responsible teaching and honest interaction with students, colleagues, and community in an atmosphere of mutual respect.

We Value Innovation as it applies to meeting the individual and changing needs of students, faculty, staff, and community.

We Value Diversity and Globalization in education to prepare learners to be effective in a global society.

ACCREDITATION

NMSU-A is accredited by the Higher Learning Commission. The latest accreditation visit to the campus by the Higher Learning Commission was in February, 2017. The next accreditation review is scheduled for 2023.

The HLC may be contacted at:

The Higher Learning Commission 230 South LaSalle Street, Suite 7-500 Chicago, IL 60604-1411 Phone: (800) 621-7440 Email: info@hlcommission.org

GENERAL INFORMATION

All correspondence to the College should be sent to the following address:

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

NMSU-A web-site: nmsua.edu

e-mail NMSU-A advisor-on-line: advisingnmsua@nmsu.edu

e-mail NMSU-A admissions office: admissnmsua@nmsu.edu

e-mail NMSU-A financial aid office: finaidnmsua@nmsu.edu

Campus Tour Request: 575.439.3600

One Stop Information Desk: 575.439.3600

Campus Maps

Admissions

A student may be accepted for undergraduate admission to NMSU-A as a degree-seeking student or as a nondegree student under the policies and conditions as set forth in this section.

New Student Orientation: The online New Student Orientation is available to students at any given time with permission from Advising. The New Student Orientation is mandatory for all new incoming Freshman or transfer students. New Student Orientation allows students the opportunity to learn about NMSU-A's services, resources, academic expectations, strategies for success, and student organizations.

Application Materials

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

Out-of-State Students and Legal Jurisdiction

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

How to Apply as a First-Time Student (Regular Student)

Requirements for admission as a regular student include the following:

- Formal application for admission. A \$20 non-refundable admission fee payable upon application.
- An official transcript of the student's high school credits, General Education Development (GED), or HISET scores. Transcripts must be sent directly from the high school or GED/HISET Testing Center to: NMSU Alamogordo

Admissions & Records Office

2400 N. Scenic Drive Alamogordo, NM 88310

Students who attended a college or university while in high school must request to have official transcripts forwarded directly to the Admissions Office by the Registrar of each college or educational institution previously attended.

Note: If the high school transcripts or GED/HISET test results do not provide adequate information for a final admission's decision, NMSU-A may require the applicant to submit official results of the American College Testing (ACT) Program test battery.

Qualifications for admission to New Mexico State University Alamogordo include:

- Graduation from any state high school or academy in the United States accredited by a regional accrediting association or approved by a state department of education or state universities, or
- A minimum of a GED or HISET diploma (in English; minimum score 450).

Home School Students

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

Aggie Pathway Program

The Aggie Pathway to the Baccalaureate Program is designed to provide the support you need as you transition from high school to college. As an Aggie Pathway student, you will start at one of the four community college campuses, located in Alamogordo, Carlsbad, Doña Ana County, or Grants. You will receive extra, personalized guidance to help you every step of the way as you work toward your bachelor's degree. Once admitted to the program, you will enroll in courses at an NMSU community college. While at the community college, you will work closely with a team of advisors to help find your pathway to a bachelor's degree at New Mexico State University. For more information, go to <u>http://</u> aggiepathway.nmsu.edu, or call (575) 646-8011.

How to Apply as a NonDegree Seeking Student

Nondegree admission is designed to meet the needs of mature, part-time students who do not wish to pursue a degree at this university. Courses taken in this status may not be used to meet university admission requirements.

Students on nondegree status are not eligible to receive financial aid or student employment; nor are they eligible to participate in student government or intercollegiate athletics; nor are they eligible to receive benefits from any veterans' program.

Students interested in using nondegree credit for initial teacher certification or recertification in a new field need to contact the College of Education. Transcripts from previous institutions, high school, and/or results of college entrance exams may be required to assure readiness for university-level courses. A \$20 non-refundable, non-degree application fee is required. Nondegree students may not transfer more than 30 credits from this status to any undergraduate degree program with the exception of students participating in a high school concurrent enrollment program.

Nondegree students are subject to the same university regulations as regular students.

Changing From Nondegree Status: A nondegree student in good academic standing (2.0 GPA or above) at NMSU must submit a formal application for a change of status from nondegree to degree seeking. Requirements for regular admission must be met.

Any transfer student who has less than a 2.0 cumulative GPA from his/ her previous college(s) and/or vocational school(s) must submit a letter of appeal to the Admissions Appeal Board for a change-of-status to degree-seeking.

How to Apply for Readmission

Former students of NMSU or one of its community colleges who have not attended an NMSU campus for more than two consecutive terms are required to make formal application for readmission. Applications must be submitted to the Admission & Records Office at least five working days prior to registration. Readmission does not require an additional admission fee.

A grade report or unofficial transcript from previous institutions may be required at the time of readmission to show eligibility to return to colleges/universities previously attended.

Readmission to Degree-Seeking Status: A student who is seeking readmission and whose last NMSU admission status was degree-seeking (regular) must complete a degree-seeking readmission form. Additionally, if the student has attended other institutions during an absence from NMSU, the student must have official transcripts forwarded directly to the Admissions & Records Office by the registrar of each institution and must be eligible to return to the college or university last attended. Academic admission status at the time of readmission will normally be determined by previous NMSU academic standing. However, academic performance at other institutions attended during the applicant's absence from NMSU may be considered when determining the student's academic admission status.

Readmission to Nondegree Status: A student who is seeking readmission and who previously attended NMSU-A under a nondegree admission status must complete a nondegree readmission form. However, if the student wants to be readmitted under a degree (regular) status, the student must request a change-of-status at the time of readmission.

Opportunities for High School Students

Dual Credit for High School Students: Students who attend a public high school, a charter school, or a state supported school are required to participate in a college experience if their entrance to high school is 2009-2010 school year or later. High school students may complete the requirement by taking:

- 1. an Honors course,
- 2. an Advanced Placement (AP) course,

- 3. an Online course through the high school and/or,
- 4. an approved Dual Credit college course at NMSU-A.

This program is designed to enhance and supplement the high school curriculum, not duplicate or replace it; therefore, there may be limitations on class choice.

High school students who wish to take college courses at NMSU-A must meet the following requirements:

- Sophomores with a 3.75 or better GPA for academic courses; 2.5 GPA or higher for technical/vocational courses.
- Juniors and Seniors with a 3.0 GPA or higher for academic courses; 2.0 GPA or higher for technical/vocational courses.

The course a student is allowed to take is based on their GPA, placement assessment results, and the courses authorized by their high school.

Students participating in this program at NMSU-A will have their tuition and general fees waived by the college. Students will be responsible for lab fees and any other course specific fees. For approved courses (each high school will have a specific list), students must visit with the Dual Credit college advisor. Grades for courses taken at the college will be sent to the appropriate high school and are required to be transcribed on the high school transcript.

Dual Credit for Home School Students: Home school students who choose to participate in college courses must meet the same requirements mentioned above and will have their tuition and general fees waived by NMSU-A. The student will be required to purchase the book and pay any course fee. These students will be required to provide the college with a graded transcript. This transcript must provide a graded (*A-F*) transcript showing courses, course levels, grade level, and grades signed by the home school program evaluator. Students must also meet the GPA requirements for each grade level.

Early Admit: High school students attending a private school may participate through the Early Admit Program. Also, high school students who wish to take college courses but do not want their grade on the high school transcript may also be admitted as Early Admit students. These students must meet the same eligibility requirements as Dual Credit students (see above). However, these students will be required to pay their tuition, fees, and purchase the book for the class.

Resources for Students

Academic Advising: NMSU-A offers centralized academic advising on a drop-in basis or by appointment. Advisors provide academic advising services to all students and prospective students for programs offered at NMSU-A as well as advising information for students transferring to the Las Cruces campus. Academic Advisors provide pre-enrollment information, course selection assistance, degree plan requirements, and college transfer information. The Advisors also provide course approval verification to students enrolled in financial assistance programs such as Veterans Programs and other state and federally funded programs. Individuals may also contact Advisor-on-Line at advisingnmsua@nmsu.edu.

Academic Support Center: The Academic Support Center offers free assistance in writing, accounting, reading, various sciences, and mathematics. Tutors are available to assist students with problems or concerns that they may have in any of these subject areas. The Academic Support Center has day, evening, and weekend hours. The writing center also provides an online writing center service to students.

Admissions & Records Office: The Admissions & Records Office receives and processes all NMSU-A admissions applications and supporting documents. All registration, course drop/adds, and university withdrawal transactions are processed at this office. The NMSU-A Admissions & Records Office provides forms to order official transcripts from the NMSU Las Cruces campus. Residency requirements and applications, student privacy act information, and general enrollment procedures are also available from the Admissions & Records Office. Web registration is available from any computer with internet access at https://my.nmsu.edu.

Bookstore: NMSU Alamogordo utilizes a virtual bookstore with Barnes & Noble located on the Las Cruces campus. Student are able to order textbooks online through the mynmsu portal using the registration tab. Textbook options include new and used purchases, rental and digital options. The direct link to the bookstore is www.nmsulascruces.bncollege.com. For more information or questions, contact the NMSU Main Campus Bookstore at (575) 646-4431.

Career Planning/Job Search Assistance: The Career Center provides career assessment, career planning advisement, occupational information, career and job search workshops, and job search support and assistance (i.e., resumes, cover letters, job search tips). To support this effort, Career Services' AggieCAREER Manager database system can be utilized when searching for jobs related to one's academic major, or for temporary, seasonal work and community jobs, while being an NMSU student. In addition, CareerBeam is a free service computer program provided by the Career Center designed to create resumes based on your major and career goals. All students may use the Career Center resources which include occupational and job skills videos, a collection of career and job hunting books, catalogs, periodicals, and assessment inventories such as the Choices360 Interest Profiler. Visit the Career Center web site at <u>http://nmsua.edu/career</u> or call (575) 439-3600 for more information.

Children on Campus: NMSU-A is an institution of higher education. Therefore, parents are urged to leave children at home and/or in the care of an adult. Children must ALWAYS be attended by a responsible adult when on campus. Leaving children unattended (on the patio, in the Student Union, in lounges, outside classrooms, etc.) is not permitted. Children are permitted in classrooms at the instructor's discretion. Children must not be permitted to disrupt classes.

Computer Centers: NMSU-A has four computer labs located in the Science Center, the Professional Technical Building, the Academic Support Center, and the Library. The labs are open to all registered students. Computer labs are open at varying times so check for posted hours in each location. Printer access and printing fee information can be found in the Tuition and Fees section of this catalog. All computer labs are equipped with computers to assist visually impaired students. Any student needing special computer needs must go through the campus Accessibilities Services Coordinator. The Computer Center web page is http://nmsua.edu/its.

Counseling: Counseling services are not available on the campus. The advising department has a referral list of community resources for those students who need such resources.

Degree Audit: Students have access to the Degree Audit System (STAR) available through their student online account at <u>https://my.nmsu.edu</u>. To self check progress toward a degree, students must select the college,

the degree, and the year they meet the requirements. See an Advisor for assistance, if necessary.

ID Cards: All students must have an NMSU-A ID card. Cards are available in the Office of Admissions & Records located in the Student Services building. The card is required to check books out of the library, allows students into school events, and gives a discount to students for some activities. The card contains the Banner Student ID Number. Students should have the number readily available for all activities and services on campus.

Learning Technology Center. The Learning Technology Center helps students adjust to online learning. At the beginning of each semester and before the second 8 week classes start, the LTC offers student workshops on Canvas access, navigation, and how to effectively interact with the variety of tools used in Canvas.

Library: The David H. Townsend Library provides information services and research assistance to NMSU-A students, faculty, and staff, as well as to community residents. The library has over 40 PCs and laptops available and also checks out laptops to students which can be taken anywhere in the library building. The library provides access to about 20,000 ebooks and tens of thousands of online journals and magazines. In addition, the library has available in print format approximately 35,000 books, 90 journal and magazine subscriptions, and over 3,500 videos. The library also provides study space and group study rooms. Research assistance is available on a "drop in" basis, as well as through tours and class sessions. For hours and additional information please see the library web site at http://nmsua.edu/library.

Placement Assessment: A placement assessment in math, writing, and reading is required prior to registration for all new degree-seeking students or those students who plan to take any math or English course(s) unless the student has passed the required prerequisite course with a C- or better. Those students who have taken the ACT/SAT may be able to use their scores instead of the placement assessment. See an Advisor to determine if ACT/SAT scores are applicable. Placement assessment results will determine what level of Math, English, and/ or Reading course(s) the student will be required to take. Any student testing into a developmental reading course **must** take the appropriate level course. If the math or English scores are more than one year old, the individual is required to retake the placement assessment for appropriate placement. Assessments are offered at the Testing Center, located in the Academic Support Center (ASC). Check with the ASC for the current schedule. Initial placement assessments are FREE; however, students may be changed a nominal fee to retake a placement exam. A fee may be charged to send placement scores to another college or university.

Resource Centers: The Language Lab Resource Center provides tutoring and assistance in Spanish and German languages.

Retention and Student Success: The Office of Retention and Student Success offers the following programs and service designed to promote student success: New Student Orientation, attendance/early alert support, academic-related skills assessment and support (problem solving, success planning) and student programing. This office is also responsible for facilitating and coordinating student retention planning efforts and probationary student advising.

Student Center: The Student Center serves as a central recreational and leisure area for the NMSU-A student population. It houses a TV room, Veterans lounge, a recreation room with game tables, a quiet study room, and work areas for student organizations. A conference room

is available for student meetings and must be scheduled through the Student Government President.

Student Conduct: The policies and procedures related to student conduct are published annually in the *Student Handbook* which is available free of charge to all students. The Vice President for Student Success serves as the NMSU-A Discipline Officer for student misconduct. The Vice President for Academic Affairs serves as the Hearing Officer for academic misconduct. The *Student Handbook* can also be located on the web site <u>http://nmsua.edu/students/</u>.

Student Holds - Academic Advisor's Hold: All students who are new to the NMSU-A campus and all students classified as freshmen (including transfer students) must see an Advisor to have their *New or Freshman Student Hold* lifted. This is to assure that beginning students have selected appropriate classes that meet their placement assessment results, have met prerequisites, and are aware of the services available to them. This hold is for two semesters and will come off at the end of the second semester. Holds are lifted in the Office of Advising & Career Services. Students may contact an Advisor by phone (439-3600), by email at advisingnmsua@nmsu.edu (advisingnmsua@nmsu.edu), or in person in the Advising Office in Student Services.

Student Holds - Satisfactory Progress Hold: Academic degree-seeking students who place into developmental courses in Math, English, and Reading must complete the required developmental coursework with a grade of C- or better before the completion of 24 credits. If a student does not meet that requirement, the student will have a hold put on his or her record and must meet with an academic advisor before registration can take place.

Western Interstate Commission For Higher Education (WICHE): NMSU collaborates with the Western Interstate Commission for Higher Education (WICHE) in recommending graduates of the university for programs in dentistry, graduate library studies, occupational therapy, optometry, osteopathy, podiatry, public health, and veterinary medicine in universities of other western states. The State of New Mexico subsidizes the education of New Mexico residents when approved for training in these fields in other states. This subsidy is a loan-for-service program which permits New Mexico residents to attend state-supported institutions at in-state tuition rates and private institutions at approximately one-third the standard tuition cost if they practice in New Mexico for an equal number of years after graduation. This program is contingent upon funding by the state legislature. For further information write the Certifying Officer for New Mexico:

WICHE's Student Exchange Program New Mexico Higher Education Department 2048 Galisteo St. Santa Fe, NM 87505-2100

Accessibility Services Department (ASD)

This department assists individuals with documented disabilities to obtain appropriate academic accommodations. Students with sensory, mobility, learning, or other recognized impairments are encouraged to apply for services through this office. Students who seek assistance are encouraged to contact the NMSU-A Accessibility Services Coordinator at (575) 439-3721 **prior** to enrollment in classes to obtain the "Petition for Accommodation" form. Services may include:

- · assistance in obtaining textbooks in e-format,
- · alternative testing accommodations, and

- · assistance in locating tutors, readers, note takers, and
- · American Sign Language interpreters.

Available adaptive equipment includes computers with speech synthesizers, windows eye, movie caption, large print software, portable enhanced vision machines, talking calculator, MP3 recorders, Braille printer, FM assistive listening device, and a microscope for the visually impaired. Additional information is available on our web page at: <u>http://nmsua.edu/asd/</u>.

NMSU-A Complaint Procedure Regarding Accessibility

Issues: NMSU-A has adopted an internal procedure providing for the prompt and equitable resolution of complaints alleging any action prohibited by Section 504 of the Rehabilitation Act of 1973 (29 USCS § 691 2993, Section 504) or of the Americans with Disabilities Act of 1990 (ADA), which prohibits discrimination on the basis of disability.

Students are encouraged to attempt to resolve any problems or complaints they might have at the local college level first. Students should initially contact the NMSU-A Accessibility Services Coordinator, (575) 439-3600, in an effort to resolve problems related to the need for, or provision of, special accommodations, as well as those that are related to access needs or the equalization of learning opportunity. The next level of appeal is the Vice President for Student Success.

Informal Complaint Procedure: The student may wish or choose to resolve the complaint on an informal basis, i.e., mediation, a letter to the professor, a telephone call, or some resolution amenable to the student. A written confidential record of the final outcome or resolution will be retained at the NMSU-A Student Success Office.

For further information, contact:

Accessibility Services Coordinator (575) 439-3721 or Vice President for Student Success (575) 439-3717

Formal Grievance Procedure: All discrimination complaints made to a person in a position of authority must be reported to the Director of the Office of Institutional Equity/EEO at the O'Loughlin House, 1130 East University Avenue, Las Cruces, immediately, regardless of whether or not permission was given by the party subjected to the discrimination. Completion of the EEO Grievance Form is required within 15 working days after the occurrence or within 5 working days following the informal complaint process (unless extenuating circumstances warrant exception). The grievance will be accepted or denied in writing by the Director of the Office of Institutional Equity/EEO (or designee). If denied, the complainant may appeal in writing to the Executive Vice President and provost (or designee) within 5 working days of the receipt of written denial letter. If accepted, the party charged will be provided with a copy of the complaint documents and will be extended 10 working days to respond. The complainant will be provided a copy of the response, and may amend the initial grievance within 2 working days to provide any additional documentation. The Director of the Office of Institutional Equity/EEO (or designee) will investigate relevant issues, secure appropriate statements, and prepare a report for administrative review. All employees and students should be aware that the university is prepared to take action in a timely manner to prevent and remedy such behavior and those individuals who engage in such behavior are subject to disciplinary action. All individuals are required to cooperate with any investigation in response to an allegation of unlawful harassment. Refusal to cooperate in an investigation may result in disciplinary action

in accordance with university policy. Any disciplinary action may be appealed through the appropriate procedure.

Complete Appeals/Grievance document can be found at: <u>https://equity.nmsu.edu</u>.

The Internal Discrimination Complaint Form can be downloaded from the website <u>https://eeo.nmsu.edu/policy-statements/</u> or picked up at the NMSU-A Accessibilities Department, Student Services Building, room 206 and sent to the OIE (Office of Institutional Equality) address listed below:

Office of Institutional Equity/EEO 1130 E. University MSC 3515 P.O. Box 30001 Las Cruces, NM 88003

Office: (575) 646-3635 Fax: (575) 646-2182 TTY : (575) 646-7802 Email: equity@nmsu.edu

Student Safety

NMSU-A strives to provide a safe campus for students. There are two security officers who alternate evening, and weekend shifts. They maintain an office in the Physical Plant. Upon request, campus security officers will escort students, faculty, and/or staff to their automobiles during evening hours.

Safety procedures, campus crime statistics, and drug and alcohol policies are routinely updated on the NMSU-A web page.

Lost and found items are maintained in the security office located in the Physical Plant.

Campus Emergency Notification System

NMSU-A has instituted Everbridge, a mass notification emergency messaging system. With this system all employees and students who have a Banner ID are automatically notified via text message, phone call, or email.

Holloman Air Force Base (HAFB)

Classes are offered at HAFB in two 8-week sessions for the fall and spring semesters and two 5-week sessions for the summer semester. Classes are open to active duty military, their dependents, DoD civilians, and community members. Academic and admission information is available in the NMSU-A Office located in the Education Services Office -HAFB Learning Center, Bldg. 224/Suite 213.

HAFB Vehicle Pass

Students who do not have access to HAFB must first register for class and then request a Holloman Air Force Base Access Request Form from the NMSU-A Admissions & Records Office. Procedures for obtaining the base vehicle pass can be found at <u>http://nmsua.edu/student-services/</u><u>holloman-afb/</u>.

Online Programs, Online Classes, and Distance Learning Education

NMSU-A offers students near and far the opportunity to obtain their associates degree or certificates with an array of 100% online programs. Online programs allow students to complete their education from anywhere in the world.

NMSU-A currently offers the following degrees 100% online:

- Arts, Associate Degree (p. 71)
- Business Management (Accounting/Bookkeeping), Associate of Applied Science Degree (p. 75)
- Business Management (Administrative Support), Associate of Applied Science Degree (p. 76)
- Business Management (General Management), Associate of Applied Science Degree (p. 77)
- Criminal Justice, Associate Degree (p. 81)
- Leadership Skills, Certificate (p. 79)
- Legal Assistant, Certificate (p. 103)
- Paralegal Studies, Associate of Applied Science Degree (p. 104)
- Prebusiness, Associate Degree (p. 106)
- Science, Associate Degree (p. 110)

All online courses have been reviewed externally and have met the Higher Education Quality Matters[™] Standards for course design. This process utilizes the nationally accepted 42 Specific Review Standards of the Quality Matters[™] Rubric. NMSU-A online courses are engaging, high quality, and prepare students for continuation of their education or for entering the workforce.

Course options are available in all online programs so there is never a need to attend face-to-face classes on campus. Any synchronous sessions will always be virtual and identified at the beginning of that particular course.

NMSU-A supports online students with services including tutoring, advising, financial aid, and admissions.

Once you complete your Associate of Arts Degree, your Criminal Justice Degree, or your Prebusiness Degree, you can move to New Mexico State University Online and finish a bachelor's degree with a smooth transition. For information go to NMSU Online Degree Programs.

For more detailed information visit the Online Education area of the website at <u>http://nmsua.edu/online-education/</u> or contact the Director of Online Quality Assurance.

Additionally, courses are offered face-to-face in Alamogordo, Cloudcroft, Tularosa, Mescalero, HAFB, and some area high schools. Classes and workshops for community organizations are received by interactive video.

Some upper-division classes are received by NMSU-A through two-way interactive video technology.

Other Resources

Pathways and Career Education (PACE): The Pathways and Career Education (PACE) program (formerly Adult Education) of NMSU-A provides services and instruction to adults in GED, English as a Second Language (ESL), basic reading, math, English, work place skills, vocabulary development, basic computer skills, and citizenship in group classes or on an individual basis. Assessments and GED pretests are given at the PACE Office on an individual basis. The Literacy Volunteers of America, Otero County Literacy Council, Inc., in partnership with PACE Advisory Board (sponsored by the PACE program), can provide volunteer tutors to work one-to-one with adult non-readers and non-English speaking adults. All these services are provided free of charge to adults. PACE is located in the Tays Center (575) 439-3812. **GED/HISET and Test Proxy:** NMSU-A serves as the GED® Center for Alamogordo and the surrounding community service area. GED® tests are given regularly on the NMSU-A campus.

Small Business Development Center: "Building New Mexico's Economy One Business at a Time." The Small Business Development Center (SBDC) located at NMSU-A provides free, confidential counseling to small business owners and prospective entrepreneurs in the areas of business planning, evaluation, marketing, management, financial analysis and loan package preparation. The SBDC assists with all aspects of starting and managing a business, as well as finding solutions to challenges faced by existing business owners and entrepreneurs. The Alamogordo SBDC is part of the New Mexico SBDC Network, consisting of 19 centers throughout the state. Free and low-cost training and workshops are also available. Through a vast network of local, state and federal resource partners, the Alamogordo SBDC is able to provide clients and students with access to numerous business resources. For more information on small business counseling and training opportunities, please call the SBDC at (575) 439-3660 or visit online at www.nmsbdc.org.

Developmental Evaluation

Developmental Evaluation

At the time of registration, the academic skill level of all entering first-time students is evaluated using ACT and/or SAT scores combined with High School GPA, and if available, the NMSU Math Placement Exam score. For students without placement information, the NMSU Mathematics Placement Exam (MPE) and Accuplacer will be administered. Any new student may choose to take the MPE in an effort to place into a higher level math course than was indicated by the student's ACT/SAT score(s) and high school GPA. More information about placement can be found at http://nmsua.edu/students/. Placement scores are valid for one year. Placement based on standardized testing is subject to change.

- Developmental Courses in English Students who score below 16 on the ACT English exam (or below parallel scores on Accuplacer) will be placed into appropriate developmental English courses before enrolling in ENGL 111G. Students scoring between 13 and 15 on the ACT English exam (or between parallel scores on Accuplacer) may be placed into ENGL 111G and co-requisite support courses. Advisors will assist students in determining the best sequence of courses toward meeting their academic goals.
- Developmental Courses in Reading Students who score below 15 on the ACT Reading exam will be placed into appropriate developmental Reading course or course(s) (prefix CCDR). Students who score below 13 on the ACT Reading will take courses through the Pathways and Career Education (PACE) program (formerly Adult Education) before enrolling in CCDR110.
- **Developmental Courses in Math** Students who score below 16 on the ACT mathematics exam will be appropriately placed using the NMSU Math Placement Exam (MPE). Students are to complete prerequisite math courses (prerequisites are listed in the catalog).

Transfer Students

NMSU evaluates eligible courses for NMSU transfer equivalency from postsecondary institutions that are regionally accredited or are candidates for regional accreditation. Credits from non-accredited institutions may be evaluated after the student has shown acceptable performance at NMSU for two semesters of full time enrollment. NMSU Colleges may have additional requirements for course transfer; please contact the College for more information.

Transfer students are subject to the same graduation requirements as all NMSU-A degree seeking students. A minimum of 15 of the 60 credits for the Associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Transfer Students- Admission Requirements

- 1. Have at least a 2.0 cumulative grade point average (GPA) and be eligible to return to the college or university last attended. (*Any transfer student who has less than a 2.0 cumulative GPA from his/her previous college(s) and/or vocational school(s) must submit a letter of appeal to the Admissions Appeal Board for admission to NMSU-A.*)
- 2. Formal application for admission. A \$20 non-refundable admission fee payable upon application.
- 3. Must provide official transcripts sent directly from the University Student Records Office or each previously attended institution to the NMSU-A Admissions & Records Office or official transcripts will be accepted if delivered in person only if in a sealed envelope from the granting institution and with current issue date. Official transcripts must be received before the date of registration.
- 4. High school transcripts and GED scores will be waived when a student has completed 30 academic semester hours at a previously attended regionally accredited college/university. However, these transcripts may be required for Financial Aid.
- 5. Any student who conceals the fact that he/she has attended another college or university and has not submitted a transcript for each institution-whether or not credit was earned-will be subject to immediate suspension.
- 6. NMSU will uphold academic and judicial suspensions from other colleges and universities.

General Requirements for Transfer Credits

Credit will be awarded for transfer courses as follows:

- Grades earned in courses taken at other institutions are not included in the calculation of the NMSU GPA, except for grades earned by approved National Student Exchange students.
- 2. A grade of D or better is required to receive NMSU credit for courses identified as having an NMSU equivalent.
- 3. Colleges or departments may require a grade of C- or higher for courses required in their programs.
- 4. Each college determines which transferred courses are applicable toward a degree or a minor.
- 5. Transcripts may need to be reevaluated when students transfer from one NMSU campus to another.
- 6. Currently enrolled students must obtain prior approval from their academic department head and dean before courses taken at another institution will be applied toward meeting NMSU graduation requirements.

Student Responsibility

Planning for effective transfer with 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.

NMSU maintains a database (http://nmsudirect.nmsu.edu/) of commonly transferred courses from numerous institutions. Courses included in the database at the time the student is admitted to NMSU will automatically transfer to NMSU, provided the student follows all guidelines (see Currently Enrolled NMSU Students below). If a transferred course does not exist in the database, it is the student's responsibility to provide the departmental faculty with sufficient materials (e.g. catalog description, syllabi, etc.) to determine if any of the department's courses may be equivalent to the credits being transferred.

Evaluation of Transfer Credits

NMSU has 3 levels of course credit transfer. Once a student has been admitted to NMSU, they are awarded credit for equivalent courses accordingly. Following award of credit as described in Levels 1 and 2 (below), application of any additional credit transfer via specific Program Articulation agreements will be approved by the student's academic department and dean, including additional courses in the major that may count toward a degree or a minor but are not included in a Program Articulation.

Level 1

Automatic course-to-course equivalency credit transfer from colleges/ universities in the state of New Mexico, per the New Mexico Higher Education Department (NM HED) articulation modules. Eligible credits for Level 1 transfers will be automatically applied to the student's transcript, provided minimal grade requirements are met. Level 1 equivalency includes

- 1. New Mexico State Common Core general education courses
- 2. New Mexico State articulated academic programs (e.g. Business, Early Childhood Education, and NM Nursing Education Curriculum).

Level 2

Faculty established NMSU course-to-course equivalency transfer.

- 1. Equivalency is determined by designated departmental faculty in the department/program in which the equivalent course is offered, and may include review of course description, syllabus and/or interaction with the other institution. If a course equivalency does not exist in the database, it is the student's responsibility to provide departmental faculty with sufficient materials to determine if any of the department's courses may be equivalent to the credits being transferred.
- 2. Credit for courses transcripted with NMSU equivalency will count toward the degree/major.
- 3. Credit for courses with no NMSU equivalence will be transcripted as 100E (lower level) or 300E (upper level) and may or may not count as credit toward a specific degree. Departmental faculty may accept the "E" course as elective credit toward the degree, or as substituting for a course not applied universally.

Level 3

Specific Program Articulation between an NMSU program/department and a program/department at another institution.

 Program Articulation with other institutions is monitored at the department/program level in accordance with articulation agreements, and may include credit transfers that are applicable only to the specific degree articulated (i.e. credit for courses may change depending on degree student declares). Because Level 3 transfer credit is degree specific, transcripts must be re-evaluated when a student changes their major or college- Level 3 transfer credits are not applied universally.

National Student Exchange (NSE)

Courses transferred back to the NMSU System by students participating in the National Student Exchange (NSE) Program will be evaluated as NMSU (system) courses and recorded on the student's academic record. All computable grades earned will be included in calculating the student's cumulative grade point average.

Currently Enrolled NMSU Students

Currently enrolled students must obtain prior approval from their academic department head and dean before courses taken at another institution will be applied toward meeting NMSU graduation requirements.

Currently enrolled students who do not receive a passing grade for a class taken at NMSU can receive transfer credit for the course taken at an outside institution. *However, the student may not receive the credit for the equivalent NMSU course.*

Transfer Credit Appeal Process

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

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

International Student Admission

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

An international student is any individual attending NMSU while present in the United States on a non-immigrant student visa (F-1, F-2, J-1, J-2, H-4, NATO Visas, and possibly others such as students in protected refugee status).

Legal immigrants (green card holders) should present documentation of their status to University Admissions and go through the same admission process as U.S. citizens.

Federal Regulations

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

- 1. For immigration purposes, each student must maintain full-time student status
 - Full time status for fall and spring semesters is defined as 12 or more credits for undergraduates (only 3 per semester allowable online).
 - b. Full time status for summer is defined as 6 or more credits for undergraduates (only 3 per summer allowable online).

- c. Exceptions possible for final semester. Consult ISSS officials for more details.
- International students may not work off campus without authorization. On-campus employment may be authorized under certain conditions.
- 3. All international students must maintain an up-to-date record in the ISSS Office. This record must indicate the student's current living address, phone number, and email address.
- 4. Prior to admission, a prospective international student must demonstrate the following:
 - · Academic ability to succeed in the chosen course of study.
 - Adequate financial support to complete the chosen course of study.
 - · English language proficiency as defined by the university.

University Procedures for International Students Regular Undergraduate Admission and English Reguirements

After regular and full admission to an NMSU degree program, each international undergraduate student is administered an English Language Placement Test. Based on the results, the student is either assigned to SPCD 110 (a bridge course designed to ensure success in ENGL 111 M), or allowed to enroll directly into ENGL 111 M. International students excused from SPCD 110 will be required to take ENGL 111 M. The student may then be required to complete one or more regular English classes as required for a particular degree. Completing basic English courses at other U.S. institutions does not automatically satisfy the ENGL 111 M requirement. Equivalencies for SPCD 110 are determined by CELP, and equivalencies for ENGL 111 M or ENGL 111G are determined by the English department. CELP and the English Department reserve the right to require additional testing in cases of dramatic discrepancies between TOEFL/IELTS scores and ELPT, or in other unusual circumstances. In cases where further testing is required, students will have to take the TOEFL PBT (Paper Based Test).

Placements will be based on those scores as follows: 519 and below = CELP, 520-529 = 110. 530+ = 111.

In rare cases, exceptions to the above scoring and placements may be applicable. CELP reserves the right to identify cases where dramatic discrepancies exist between the ELPT and the original TOEFL or IELT score submitted for admission. In such cases, students may be asked to take the institutional Paper Based TOEFL (PBT). This test will be administered locally, in a timely fashion, and at the university's expense. Following the PBT a re-assessment of the student's English course placement will be made by CELP.

Students voluntarily objecting to their ELPT score and placement in CELP are allowed to take the Institutional TOEFL one time only, at their own expense, for the purpose of re-evaluation of their English course placement by CELP.

Conditional CELP Admission and English Requirements

NMSU, via Center for English Language Programs (CELP), conducts an Intensive English Language Program (IELP) for undergraduate and graduate students prior to pursuing their degree programs at NMSU. International students in this program are admitted to the university for the sole purpose of studying English, with a guarantee of full admission to the university upon completion of the CELP program (subject to all other admission requirements). Only undergraduate students who are conditionally admitted and complete the full sequence of IELP courses will be admitted directly into ENGL 111M. Placing out of levels by retaking the TOEFL is not allowable once conditional admission status has been granted. Visit <u>http://celp.nmsu.edu/</u> for full details.

English Language Proficiency

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

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

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

Financial Support

No financial aid is available from NMSU for international students. The university reserves the right to require advance deposit of funds for any period deemed reasonable prior to granting admission. Each prospective international student must submit a current financial support document with his/her application. This document must show that:

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

Admission Restrictions

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

- 1. The dean of a chosen college, the department head of a chosen major, and the President of a Community College campus may refuse to grant admission.
- 2. There may be a disproportionate number of international students or a disproportionate number of a particular nationality in one department, college or community college.
- 3. Academic advisors may not be available.
- 4. Sufficient classroom-based courses are not available to maintain visa status (e.g. courses are online).

All application material, including the application for admission, letters of recommendation, transcripts, national examination scores, transcripts from colleges or universities (with an English translation), test scores including the TOEFL. Pearson's IELTS, should be sent to the ISSS Office

by the following recommended dates. Additionally, proof of adequate financial support should be sent directly to ISSS.

For full consideration for undergraduate admission, ISSS maintains the following deadlines:

July 1 (application initiated)	for fall semester
July 15 (all documents submitted)	for fall semester
October 1* (Study Aboard and CELP Programs)	for spring semester
November 15 (application initiated)	for spring semester
December 1 (all documents submitted)	for spring semesters

* Contact the Office of Education Abroad for exchange program admission deadlines, and CELP for intensive English program deadlines.

Miscellaneous Regulations

- 1. All international students are required to have student health insurance. Insurance will be automatically billed to the student's account each semester.
- New international students are not permitted to register until all ISSS requirements are met, including attending orientation and taking the English Language Placement Test. All international students are, therefore, required to report to the campus to which they were admitted. The following are the offices that a student may need to report to:
 - a. Las Cruces campus: International Student & Scholar Services, Garcia Annex, room 246 (exchange students need to report to the Office of Study Abroad)
 - b. Doña Ana Community College: International Student & Scholar Services, Garcia Annex, room 246 (exchange students need to report to the Office of Study Abroad)
 - c. Alamogordo Community College: Office of Student Services, Student Services Building, second floor
 - d. Carlsbad Community College: Office of Student Services, 150 University Drive, Room 111
 - e. Grants Community College: Office of Student Services, Walter Martinez Building, Main Office Complex
- Students in nondegree exchange J-1 visa status must be engaged full time in a prescribed course of study as determined by the NMSU Responsible or Alternate Responsible Officer (RO/ARO). Consult ISSS for more details.

Some admission and tuition exceptions have been developed for international military and their family members stationed in New Mexico. Contact the NMSU-A Admissions Coordinator for details.

Abitur Program: Family members of German military stationed at HAFB can complete the Associate of Arts and the Abitur requirements concurrently at NMSU-A. The Abitur program was jointly designed by NMSU-A and the German Air Force to bridge the differences between the German and American educational systems. It was initially approved in 1997 and was formally approved by the German Ministry of Education in October 2002. For further information regarding admissions requirements, contact the Vice President for Student Success located in the Student Services Building. Once admitted to the university, visit with an Academic Advisor for degree and course information.

Tuition, Fees, and Other Expenses

The published costs are for one semester. The university reserves the right to change any of the charges without notice. Updated information can be found at <u>http://nmsua.edu/business-office/tuition-fees/.</u>

NMSU-A Tuition and Billing Information: <u>http://nmsua.edu/admissions/</u> tuition-and-billing-information/.

Tuition and Fees

For a full listing of all tuition rates from the NMSU System please see the University Accounts Receivable website 1,2,3 .

- Residents In-District (NM residents living in Zip Code areas of 88310, 88311, 88325, 88330, 88337, 88342)
- ² Residents Out-of-District (NM residents not living in the In-District Zip Codes listed above.)
- ³ Non-Resident students enrolling in six or fewer credits will pay 1.25 times the out-of-district resident tuition rate per credit hour.

Active Duty Military And Dependents: Non-resident active duty and foreign military personnel stationed in New Mexico and their family members are considered in-district for tuition purposes. Active duty personnel and their dependents who attend NMSU or one of its community colleges for the first time or who return after an absence from NMSU must pick up an Application for Active Duty Military Tuition Residence from the HAFB Education Office or the Office of Admissions & Records and return the completed application to the NMSU-A Admissions & Records Office or the NMSU-A office at HAFB at the time of admission or readmission.

Senior Citizens: In accordance with Statute 5.7.19 NMAC, New Mexico residents, 65 or older, who register on the first day of class after degree seeking students have registered for required courses, will be assessed the reduced tuition rate of \$5.00 per credit hour with no university approved required fees. Senior citizen students will still be responsible for any applicable course fees. Per state law, senior citizens who take more than 6 credits must pay full price for all credits based on in-district or out-of-district residency.

Senior citizen students may register prior to the first day of class, based on the designated registration time noted in the semester registration guide, but they will be assessed the full NMSU tuition plus university approved required fees and will be responsible for any applicable course fees.

Contact the NMSU-A Admissions & Records Office for more information.

Additional Fees

The following are ADDITIONAL FEES that will be assessed to the student.

Payment Plan Fee: For payment plan options, go to <u>http://uar.nmsu.edu/</u> <u>payment-options/payment-plans/</u>. Fees vary based on the plan.

Matriculation Fee: \$20 first time NMSU students (non-refundable). \$50 first time international students (non-refundable)

Late Registration Fee: \$25 assessed for late registration (non-refundable)

Late Degree Application Fee: If applying for degree past the posted initial deadline, a late fee may be assessed for each degree.

Course/Lab Fees: Various courses have lab fees attached. Go to <u>http://</u><u>nmsua.edu/business-office/tuition-fees/</u> for a listing of fees.

Online Course Fee: Each credit of an online course has an additional \$25.00 fee.

Student Printer Usage Fee: A general student printer usage fee will be assessed at the rate of \$0.10 black & white per page, \$0.25 color per page. At the beginning of each semester every NMSU-A student will receive \$5.00 (50 pages black & white or 20 pages color) free. Additional printing can be purchased at the Business Office. All printing accounts will be terminated at the end of the academic year and the end of summer with no reimbursement of unused funds. The printing fees applies to general printing carried out in the Main Computer Lab located in SC 104, Library, and Academic Support Center. A max of \$25 per month deposit limit.

Late Registration Penalties: A late registration penalty of \$25 will be assessed for course registrations processed during a term's late registration time period. Failure to make scheduled payment with the University Accounts Receivable on due dates may result in additional liability.

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

Tuition Adjustments, Refund, and Forfeitures: Students officially withdrawing from all courses or dropping a course(s) during a semester or term are eligible for a 100-percent refund of tuition and fees through the deadlines listed online as outlined on the Important Dates for each term. Students withdrawing from a course(s) after that deadline will not be eligible for a refund and will remain liable for payment of full tuition and fee charges. Non-attendance does not constitute an official course drop or withdrawal. It is the student's responsibility to withdraw from the university and/or drop a course if the student decides to not attend once enrollment has taken place. All charges due to NMSU must be paid before refunds or adjustments will be permitted.

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

Dishonored Financial Transactions-Checks, Credit Cards, ACH

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

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

- American Indian Agreement
- Dual Credit
- · 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
- Summer Session
- · Veteran Waiver

Financial Aid & Scholarship Services

The mission of the Office of Student Financial Aid and Scholarship Services is to improve access to higher education by providing comprehensive financial assistance and information to all students and the NMSU-A community. Although primary responsibility for educational costs rests with the student and his/her family, NMSU-A, the federal government, and the state of New Mexico all contribute to assist students pursuing higher education.

The Financial Aid Office administers an extensive program of grants, scholarships, and loans. The awarding of grants and loans is based on need, while the awarding of scholarships is based mainly on academic ability and, in some cases, financial need. Assistance in the form of work is available through the Federal College Work-Study Program and the New Mexico Work-Study Program.

Students applying for financial aid must complete a Free Application for Federal Student Aid (FAFSA) designed to determine, in accordance with state and federal guidelines, the difference between what the student and/or family is expected to contribute and the cost of attending NMSU. Among the factors that determine the family's Expected Family Contribution (EFC) 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. nontaxable income and benefits; and
- 5. student's two year prior income and assets.

Students applying for financial aid should complete a FAFSA by visiting www.fafsa.ed.gov/.

Please refer to the NMSU-Alamogordo, Financial Aid and Scholarship Services web site for more information on available financial aid. A complete listing of programs and policies is available at <u>http://</u> <u>nmsua.edu/student-services/financial-aid</u>.

General Eligibility Requirements

To receive financial aid you must demonstrate that you are qualified to obtain 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:

- Passing 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.
- Be a U.S. citizen or eligible noncitizen (state funded scholarships are available to undocumented students).
- Have a valid Social Security number. If you don't have a Social Security number, you can find out more about applying for one at www.ssa.gov.
- · Must be 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 of graduation, family contribution or failure to meet satisfactory academic progress. Withdrawals or reductions in enrollment may affect an award or any future awards. Financial Aid will not pay for audited courses or some repeats.

Federal Direct Subsidized Loans: This 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 Loans: Loans that are made to eligible undergraduate and graduate students that do not demonstrate financial need. Unlike other federal loans, interest accrues while the student is attending school. Repayment of a Federal Direct loan begins six months after graduation or six months after enrollment drops below 6 credits or less than half time for undergraduate students.

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

Grants: The Federal Pell Grant is a federal grant available to undergraduate students with documented financial need. Pell Grants range from \$652 to \$6095, though these figures are subject to change each year. If a 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 show exceptional financial need. For more information, contact University Financial Aid and Scholarship Services or visit the university's financial aid website at: <u>http://nmsua.edu/student-services/</u><u>financial-aid/</u>. Generally, grants do not have to be repaid.

Work-Study Programs: The Federal Work-Study Program provides employment opportunities for selected undergraduate students with demonstrated financial need. The New Mexico Work-Study Program also provides employment opportunities for New Mexico resident students.

For more information on the U.S. Department of Education student aid programs, go to <u>http://studentaid.ed.gov/</u> or see the NMSU Financial Aid web site at <u>http://nmsua.edu/student-services/financial-aid/</u>.

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 financial need.

NMSU-A 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 Financial Aid Office or visit the scholarship web site at http://nmsua.edu/student-services/financial-aid/scholarships/.

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

Note: Financial Aid will not be paid for any courses added after the census date. Students will be billed for courses they drop or do not attend if a change of enrollment status results.

Financial Aid Satisfactory Academic Progress

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

Elements of Financial Aid Satisfactory Academic Progress:

- Qualitative Progress: Undergraduate students must maintain a cumulative GPA of at least 2.0 (a C- average).
- Completion Rate: Students must complete a minimum of 70 percent of all coursework (registered credit hours) attempted within the NMSU system. Any course with a grade of withdraw (W), incomplete (I), repeats (RR), failure (F), audit (AU), or no credit (NC) is not considered completed coursework. Repeated courses are included in the calculation.
- Maximum Time Frame: Undergraduate students must complete their program within 150 percent of the published length required by the program. Students who have reached the maximum allowable time will be suspended from receiving financial aid. Limited developmental/remedial hours are excluded from this calculation. Total attempted hours including repeated courses and transfer coursework are included in the student's maximum time frame calculation.
- Recipients of financial aid grants and loans who drop credits or withdraw may be required to return all or a portion of awarded Title IV funds. Further information regarding the return of Title IV funds is available on the NMSU web site at <u>http://fa.nmsu.edu/resources/ return-of-title-iv-funds/</u>.

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

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

The Appeals Process: Students suspended from financial aid may appeal the suspension if there are extenuating circumstances affecting their progress. Students who would like to appeal the suspension must submit an appeal form which can be obtained at the NMSU-A Financial Aid Office. They must also submit all required documentation to University Financial Aid and Scholarship Services. A committee will review the appeal and may grant reinstatement of financial aid based on extenuating circumstances that directly contributed to deficient academic performance. Appeals are evaluated on a term-by-term basis. All appeals, including relevant documentation, must be submitted by the semester deadline based on the current semester of enrollment. A student may *appeal the termination of eligibility only twice during his or her career* within the New Mexico State University system.

Student Organizations & Activities

The Vice President for Student Success advises and assists in the coordination of activities and events sponsored by student organizations. Activity approvals and contracts for these events are processed by this office as well as student organization chartering.

Allied Health Student Association - The Allied Heath Student Association was chartered in Spring 2017. The organization's goals are to provide programs representative of fundamental interests and concerns to allied health students and to aid in the development of the whole person, including his/her professional roles; his/her responsibility for health care of people in all walks of life.

Alpha Nu Beta Chapter of Phi Theta Kappa (PTK) - PTK was chartered in 1986 and is a growing international academic honor society on the NMSU-A campus. To be eligible for membership, a student must carry a grade point average of 3.5 or above, be currently enrolled at NMSU-A and demonstrate leadership qualities. Letters of invitation are sent in spring and fall semesters.

Campus Christian Fellowship (CCF) - CCF is open to all students, faculty, and staff who desire to share their faith and beliefs in Jesus Christ.

League of United Latin American Citizens (LULAC) - LULAC was chartered in 2013. The primary purpose of the student organization is to encourage education completion and graduation. Other purposes include the promotion of Hispanic cultural arts, music, and history; practice parliamentary procedure; and to promote the Alamogordo community and educational programs of NMSU-A and the communities it serves.

Social Science Club (SSC) - The SSC was chartered in 1998. All students interested in the social sciences (anthropology, criminal justice, geography, economics, political science, psychology, sociology, etc.) or those who want to make an impact in our community are invited to join. The SSC is a student-driven organization that promotes change on campus and in the community. Some activities sponsored by the group are food drives and other collections for community needs as well as a community flea market. The two big annual events sponsored by this group are Take Back the Night and the Lady of the Mountain Scholarship Run. Along with discussions about how social sciences can work for everyone, there are field trips and local group meetings. The SSC is interested in social and environmental concerns.

NMSU-A Student Government (NMSU-ASG) - The NMSU-A Student Government is the recognized student governing organization. It is comprised of senators elected by chartered student organizations and At-Large Senators elected by NMSU-A students. Student Government Senators play an important role on this campus. The At-Large Senators and Student Organization Senators jointly allocate funding to student organizations, decide on major purchases to benefit the student body, represent the student body at major campus events, serve on campuswide committees, and serve in an advisory capacity to the campus administrators. Elections for At-large Senators are held each spring semester.

Recognition of Academic Achievement

Crimson Scholars Program: Crimson Scholars is a benefit and recognition program for academically superior students who have a cumulative 3.5 GPA and are taking three or more credits per semester¹. Crimson Scholars receive a number of benefits, including:

- 1. automatic eligibility of all Honors Courses,
- 2. early registration,
- 3. extended library check-out privileges,
- 4. notation on college transcript,²

5. recognition in the commencement program³, and

6. a lapel pin⁴.

To be eligible for the Crimson Scholars Program, students must be degree-seeking.

- Entering freshmen must have either.
 - a minimum ACT standard composite score of 26 or better OR
 - a minimum SAT score of 1240 OR
 - a 3.75 or better high school GPA.
- Currently enrolled students must have a minimum cumulative GPA of 3.5 for 3 or more credits¹ at NMSU.
- Transfer students must have a 3.5 cumulative GPA from their previous institution(s) or complete 3 or more credits¹ at NMSU for eligibility.

To maintain Crimson Scholar status:

- Freshmen entering on an ACT score must maintain a cumulative GPA of 3.5 and complete three or more credits per semester to continue in the program.
- Sophomores, juniors, and seniors must maintain a minimum cumulative GPA of 3.5 and be currently enrolled in a total of 3 or more credits¹ per semester at NMSU or any NMSU community college to retain their Crimson Scholars status.
- Crimson Scholars whose GPA drops below the required cumulative 3.5 or drops below the three credit minimum will be dropped from the program. If in the following semester, the student's cumulative GPA and credits again meet the minimum requirement, the student will automatically be reinstated.

Additional information is available from the Crimson Scholars Office, located in the Conroy Honors Center on the Las Cruces campus.

Honors College: The Honors College provides motivated undergraduate students with opportunities to broaden and enrich their academic programs. In small classes taught by master teachers, honors students engage in lively discussion and collaborative investigation of interdisciplinary topics. By taking honors courses, students may also work toward completing general education requirements and disciplinary requirements in their major.

President's Report of Academic Achievement: Following the close of the semester, each college dean or community college president publishes a list of students who have achieved honor standing in grades for the previous semester. To be eligible, a student must have been enrolled in 12 or more semester credits with a computable grade in each. The top 15 percent of eligible students by college for that semester will be named to the President's Honor List.

Meritorious Graduate: The designation Meritorious Graduate is awarded to the top 15 percent of the students receiving associate degrees within each college in any one academic year; the students must have completed 45 or more credits with computable grades at NMSU.

- ¹ Does not include *I* grade, *N* grade, or audit course designations at NMSU.
- ² For an Associate Degree: Students who complete 45 credit hours as Crimson Scholars and have a minimum GPA of 3.5 or above at the end of their last semester will have "Crimson Scholar Graduate" printed on their final transcript.

- ³ For an Associate Degree: To be designated in the commencement program as a Crimson Scholar graduate, a student must complete a minimum of 38 credit hours as a Crimson Scholar and must have a minimum cumulative GPA of 3.5 or above.
- ⁴ For an Associate Degree: Students who complete 24 credit hours as Crimson Scholars and have a minimum GPA of 3.5 receive a lapel pin.

General Education Courses Associates Degree

The New Mexico General Education Requirements

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

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

Pr	efix	Title	Credits
Ar	ea I: Communicat	ions	10
Se	lect one course fr	om each sub group:	
En	glish Composition-	Level 1	
	ENGL 111G	Rhetoric and Composition	
	ENGL 111GH	Rhetoric and Composition Honors	
	ENGL 111 M	Rhetoric and Composition for International and Multilingual Students	
En	glish Composition-	Level 2	
	ENGL 203G	Business and Professional Communication	
	ENGL 211G	Writing in the Humanities and Social Sciences	
	ENGL 218G	Technical and Scientific Communication	
	ENGL 311G	Advanced Composition	
	ENGL 318G	Advanced Technical and Professional Communication	
Or	al Communication		
	AXED 201G	Effective Leadership and Communication in Agricultural Organizations	
	COMM 253G	Public Speaking	
	COMM 265G	Principles of Human Communication	
	HON 265G	Principles of Human Communication Honors	
Ar	ea II: Mathematic	S	3-4
	A ST/STAT 251G	Statistics for Business and the Behavioral Sciences	
	MATH 112G	Fundamentals of Elementary Math II	
	MATH 121G	College Algebra	
	MATH 142G	Calculus for the Biological and Management Sciences	
	MATH 190G	Trigonometry and Precalculus	

MATH 192G	Calculus and Analytic Geometry I Calculus and Analytic Geometry II		Area IV: Social/Beha	
			AG F/FSTF 2100	G Survey of Food and Agricultural Issues
10/11/152011	Calculus and Analytic Geometry II		ANTH 120G	Human Ancestors
	Honors		ANTH 1250	Introduction to World Cultures
MATH 210G	Mathematics Appreciation		ANTH 201G	Introduction to Anthropology
	Calculus and Analytic Geometry III		ANTH 202G	World Archaeology
STAT 271G	Statistics for Psychological Sciences		C EP 110G	Human Growth and Behavior
	ry Sciences and Social/Behavioral	10-11	C J 101G	Introduction to Criminal Justice
Sciences ¹			ECON 201G	Introduction to Economics
Area III: Laboratory Se	ciences		ECON 251G	Principles of Macroeconomics
AGRO/HORT	Introductory Plant Science		ECON 251GH	Principles of Macroeconomics Honors
100G			ECON 252G	Principles of Microeconomics
ANTH 130G	Human's Place in Nature: Introduction to		ECON 252GH	Principles of Microeconomics Honors
& 130GL	Biological Anthropology		GEOG 112G	World Regional Geography
	and Human's Place in Nature Laboratory		GEOG 120G	Culture and Environment
ASTR 105G	The Planets		GOVT 100G	American National Government
	Introduction to Astronomy		GOVT 110G	Introduction to Political Science
	Human Biology and Human Biology Laboratory		GOVT 150G	American Political Issues
	Contemporary Problems in Biology		GOVT 160G	International Political Issues
	Natural History of Life		HON 232G	The Human Mind
	and Natural History of Life Laboratory		HON 235G	Window on Humanity
	Cellular and Organismal Biology		HON 237G	Archaeology: Search for the Past
& 211GL	and Cellular and Organismal Biology		HON 248G	The Citizen and the State: Great Political
	Laboratory			Issues
	Introduction to Computer Science		HON 249G	American Politics in a Changing World
	Principles and Applications of Chemistry		JOUR 105G	Media and Society
	General Chemistry I		LING 200G	Introduction to Language
	General Chemistry II		PHLS 150G	Personal Health and Wellness
E S 110G FSTE 164G	Introductory Environmental Science Introduction to Food Science and		PSY 201G	Introduction to Psychology
	Technology		S WK 221G	Introduction to Social Welfare
FSTE 263G	Food Science I		SOC 101G	Introductory Sociology
	Introduction to Natural Resources		SOC 201G	Contemporary Social Problems
	Management		W S 201G	Introduction to Women's Studies
GEOG 111G	Geography of the Natural Environment		W S 202G	Representing Women Across Cultures
GEOL 111G	Introductory Geology		Area V: Humanities	
	The Dynamic Earth		ENGL 115G	Perspectives on Literature
HON 219G	Earth, Time, and Life		ENGL 116G	Perspectives on Film
PHYS 110G	The Great Ideas of Physics		ENGL 220G	Introduction to Creative Writing
PHYS 120G	Introduction to Acoustics		ENGL 244G	Literature and Culture
PHYS 211G	General Physics I		HIST 101G	Roots of Modern Europe
	and General Physics I Laboratory		HIST 102G	Modern Europe
PHYS 212G	General Physics II		HIST 110G	Making History
& 212GL	and General Physics II Laboratory		HIST 111G	Global History to 1500
PHYS 215G	Engineering Physics I		HIST 112G	Global History Since 1500
& 215GL	and Engineering Physics I Laboratory		HIST 201G	Introduction to Early American History
PHYS 216G	Engineering Physics II		HIST 202G	Introduction to Recent American History
	and Engineering Physics II Laboratory		HIST 211G	East Asia to 1600
	General Physics for Life Sciences I		HIST 212G	East Asia since 1600
	and Laboratory to General Physics for Life Science I		HIST 221G	Islamic Civilizations to 1800
	General Physics for Life Sciences II		HIST 222G	Islamic Civilizations since 1800
	and Laboratory to General Physics for Life Sciences II		HON 220G	The World of the Renaissance: Discovering the Modern

HON 222G	Foundations of Western Culture	
HON 227G	Plato and the Discovery of Philosophy	
HON 228G	Religion and the State	
HON 229G	The New Testament as Literature	
HON 230G	Bamboo and Silk: The Fabric of Chinese Literature	
HON 234G	The Worlds of Arthur	
HON 239G	Medieval Understandings: Literature and Culture in the Middle Ages	
HON 242G	Claiming an American Past	
PHIL 100G	Philosophy, Law and Ethics	
PHIL 101G	The Art of Wondering	
PHIL 124G	Philosophy of Music	
PHIL 136G	The Quest for God	
PHIL 201G	Introduction to Philosophy	
PHIL 211G	Informal Logic	
PHIL 223G	Ethics	
Area VI: Creative an	nd Fine Arts	3
ART 101G	Orientation in Art	
ART 110G	Visual Concepts	
ART 295G	Introduction to Art History I	
ART 296G	Introduction to Art History II	
DANC 101G	Dance Appreciation	
HON 208G	Music in Time and Space	
HON 216G	Encounters with Art	
HON 270G	Theatre: Beginnings to Broadway	
MUS 101G	An Introduction to Music	
MUS 201G	History of Jazz in Popular Music: A Blending of Cultures	
THTR 101G	The World of Theatre	
General Education	Elective ²	3-4
Total Credits		32-35

¹ For Area III: Laboratory Sciences and Area IV: Social/Behavioral Sciences, students <u>must</u> take one course from each for a total of 7 credits.

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

² In order to complete the General Education Requirements, students must take an elective course for 3-4 credits. This course can be any course in any area, excluding Area I: Communications and any crosslisted courses, that exceeds the minimum requirement. The elective course must have the "G" distinction.

Alternatives for Meeting General Education Requirements

Students taking nine or more credits in a specific subject area, even though the courses are not designated as General Education courses, will have met the general education requirements for that subject area. For example, a student may complete ART 150 Drawing I, ART 155 2-D Fundamentals and ART 156 3-D Fundamentals (9 hours) and thereby satisfy one course from the Area VI: Creative and Fine Arts category, even though none of those courses carries a G suffix. Please check with the Center for Academic Advising and Student Support.

Applied Associates Degree

The New Mexico General Education Requirements

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

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

Prefix Select one course fi for a total of 12-14	Title rom four of the following six content areas credits	Credits 12-14
	ed must be from a different area and ke multiple courses in the same area.	
Area I: Communicatio		
AXED 201G	Effective Leadership and Communication	
	in Agricultural Organizations	
COMM 253G	Public Speaking	
COMM 265G	Principles of Human Communication	
ENGL 111G	Rhetoric and Composition	
ENGL 111GH	Rhetoric and Composition Honors	
ENGL 111 M	Rhetoric and Composition for International and Multilingual Students	
ENGL 203G	Business and Professional Communication	
ENGL 211G	Writing in the Humanities and Social Sciences	
ENGL 218G	Technical and Scientific Communication	
ENGL 311G	Advanced Composition	
ENGL 318G	Advanced Technical and Professional Communication	
HON 265G	Principles of Human Communication Honors	
Area II: Mathematics		
A ST/STAT 251G	Statistics for Business and the Behavioral Sciences	
MATH 112G	Fundamentals of Elementary Math II	
MATH 121G	College Algebra	
MATH 142G	Calculus for the Biological and Management Sciences	
MATH 190G	Trigonometry and Precalculus	
MATH 191G	Calculus and Analytic Geometry I	
MATH 192G	Calculus and Analytic Geometry II	
MATH 192GH	Calculus and Analytic Geometry II Honors	
MATH 210G	Mathematics Appreciation	
MATH 291G	Calculus and Analytic Geometry III	
STAT 271G	Statistics for Psychological Sciences	
Area III: Laboratory S	Sciences	

AGRO/HORT 100G	Introductory Plant Science	ECON 251GH ECON 252G	Principles of Macroeconomics Honors Principles of Microeconomics
ANTH 130G	Human's Place in Nature: Introduction to	ECON 252G	Principles of Microeconomics Honors
& 130GL	Biological Anthropology	GEOG 112G	World Regional Geography
	and Human's Place in Nature Laboratory	GEOG 120G	Culture and Environment
ASTR 105G	The Planets		
ASTR 110G	Introduction to Astronomy	GOVT 100G	American National Government
BIOL 101G	Human Biology	GOVT 110G	Introduction to Political Science
& 101GL	and Human Biology Laboratory	GOVT 150G	American Political Issues
BIOL 110G	Contemporary Problems in Biology	GOVT 160G	International Political Issues
BIOL 111G	Natural History of Life	HON 232G	The Human Mind
& 111GL	and Natural History of Life Laboratory	HON 235G	Window on Humanity
BIOL 211G	Cellular and Organismal Biology	HON 237G	Archaeology: Search for the Past
& 211GL	and Cellular and Organismal Biology	HON 248G	The Citizen and the State: Great Political
0.0.171.0	Laboratory		Issues
C S 171G	Introduction to Computer Science	HON 249G	American Politics in a Changing World
CHEM 110G	Principles and Applications of Chemistry	JOUR 105G	Media and Society
CHEM 111G	General Chemistry I	LING 200G	Introduction to Language
CHEM 112G	General Chemistry II	PHLS 150G	Personal Health and Wellness
E S 110G	Introductory Environmental Science	PSY 201G	Introduction to Psychology
FSTE 164G	Introduction to Food Science and	S WK 221G	Introduction to Social Welfare
	Technology	SOC 101G	Introductory Sociology
FSTE 263G	Food Science I	SOC 201G	Contemporary Social Problems
FWCE 110G	Introduction to Natural Resources	W S 201G	Introduction to Women's Studies
0500 1110	Management	W S 202G	Representing Women Across Cultures
GEOG 111G	Geography of the Natural Environment	Area V: Humanities	
GEOL 111G	Introductory Geology	ENGL 115G	Perspectives on Literature
GEOL 212G	The Dynamic Earth	ENGL 116G	Perspectives on Film
HON 219G	Earth, Time, and Life	ENGL 220G	Introduction to Creative Writing
PHYS 110G	The Great Ideas of Physics	ENGL 244G	Literature and Culture
PHYS 120G	Introduction to Acoustics	HIST 101G	Roots of Modern Europe
PHYS 211G & 211GL	General Physics I	HIST 102G	Modern Europe
PHYS 212G	and General Physics I Laboratory General Physics II	HIST 110G	Making History
& 212GL	and General Physics II Laboratory	HIST 111G	Global History to 1500
PHYS 215G	Engineering Physics I	HIST 112G	Global History Since 1500
& 215GL	and Engineering Physics I Laboratory	HIST 201G	Introduction to Early American History
PHYS 216G	Engineering Physics II	HIST 202G	Introduction to Recent American History
& 216GL	and Engineering Physics II Laboratory	HIST 211G	East Asia to 1600
PHYS 221G	General Physics for Life Sciences I	HIST 212G	East Asia since 1600
& 221GL	and Laboratory to General Physics for	HIST 221G	Islamic Civilizations to 1800
	Life Science I	HIST 222G	Islamic Civilizations since 1800
PHYS 222G	General Physics for Life Sciences II	HON 220G	The World of the Renaissance:
& 222GL	and Laboratory to General Physics for Life Sciences II		Discovering the Modern
Area IV: Social/Beha		HON 222G	Foundations of Western Culture
		HON 227G	Plato and the Discovery of Philosophy
	G Survey of Food and Agricultural Issues	HON 228G	Religion and the State
ANTH 120G	Human Ancestors	HON 229G	The New Testament as Literature
ANTH 125G	Introduction to World Cultures	HON 230G	Bamboo and Silk: The Fabric of Chinese
ANTH 201G	Introduction to Anthropology		Literature
ANTH 202G	World Archaeology	HON 234G	The Worlds of Arthur
C EP 110G	Human Growth and Behavior	HON 239G	Medieval Understandings: Literature and
C J 101G	Introduction to Criminal Justice		Culture in the Middle Ages
ECON 201G ECON 251G	Introduction to Economics Principles of Macroeconomics	HON 242G	Claiming an American Past
		PHIL 100G	Philosophy, Law and Ethics

PHIL 101G	The Art of Wondering	
PHIL 124G	Philosophy of Music	
PHIL 136G	The Quest for God	
PHIL 201G	Introduction to Philosophy	
PHIL 211G	Informal Logic	
PHIL 223G	Ethics	
Area VI: Creative a	nd Fine Arts	
ART 101G	Orientation in Art	
ART 110G	Visual Concepts	
ART 295G	Introduction to Art History I	
ART 296G	Introduction to Art History II	
DANC 101G	Dance Appreciation	
HON 208G	Music in Time and Space	
HON 216G	Encounters with Art	
HON 270G	Theatre: Beginnings to Broadway	
MUS 101G	An Introduction to Music	
MUS 201G	History of Jazz in Popular Music: A Blending of Cultures	
THTR 101G	The World of Theatre	
General Education	n Elective ¹	3-4
Total Credits		15-18

¹ In order to complete the General Education Requirements, students must take an elective course for 3-4 credits. This course can be any course in any area, excluding any crosslisted courses. The elective course must have the "G" distinction.

Alternatives for Meeting General Education Requirements

Students taking nine or more credits in a specific subject area, even though the courses are not designated as General Education courses, will have met the general education requirements for that subject area. For example, a student may complete ART 150 Drawing I, ART 155 2-D Fundamentals and ART 156 3-D Fundamentals (9 hours) and thereby satisfy one course from the Area V: Humanities and Fine Arts category, even though none of those courses carries a G suffix. Please check with the Center for Academic Advising and Student Support.

Military and Veterans Programs (MVP)

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

- Affordable, in-state tuition rates for active-duty military personnel and dependents using federal education benefits
- Affordable, in-state tuition rates for veterans and dependents receiving U.S. Department of Veterans Affairs education benefits
- · Easily transferable credits that count toward degrees at NMSU
- Facilitation of all Department of Defense Tuition Assistance (TA) Benefits
- Courses taught online and at locations on or near regional military installations
- · Innovative technology and course delivery methods

- · Internships for veterans
- Student advocacy at every level, from admissions to graduation
- Resource materials from a variety of veteran and military service organizations
- · Priority registration for all military and veteran students
- Veterans on Campus Training by Kognito, training faculty and staff on our student veterans and the unique value they bring to campus
- Salute Honor Society for student veterans
- Connection with student organizations
- · A tradition of quality education

NMSU degree programs are approved by the New Mexico Department of Veterans' Services. Eligible veterans and dependents may receive education benefits from the U.S. Department of Veterans' Affairs.

For further information, contact:

Veterans Programs 2400 N. Scenic Drive Alamogordo, NM 88310 Phone: (575) 439-3600, or Email: veteransNMSUA@nmsu.edu

Veterans Priority Registration: Veterans Priority Registration will go into effect after proof of service has been shown to the Veterans Programs Office. Acceptable proof of service is:

- DD214
- Veterans Affair's ID
- NM Driver License indicating Veteran Status.

New Students are not eligible for Veterans Priority Registration until proof of service has been provided.

Costs

Active-Duty: Active-duty military personnel (Armed Forces,) stationed in New Mexico or at Fort Bliss, Texas may complete a "Resident Tuition Application for Active Duty Military" waiver to qualify for in-state tuition. Spouses and minor children of active-duty personnel who are stationed in New Mexico and Fort Bliss, Texas who are not otherwise entitled to claim in-state residency, may apply for in-state tuition by submitting a "Resident Tuition Application for Active-Duty Military, Veterans, and Dependents of the US Armed Forces" waiver to the Military and Veterans Programs office. Applications are available by contacting:

Veterans Programs 2400 N. Scenic Drive Alamogordo, NM 88310 Phone: (575) 439-3600, or Email: veteransNMSUA@nmsu.edu

Dependents Receiving VA Educational Benefits: Per NM 2015 HB 427: A spouse or child of a veteran of the armed forces is entitled to pay tuition and fees at the rate provided for New Mexico residents provided that the spouse or child is eligible for benefits pursuant to the federal Post-9/11 Veterans Educational Assistance Act of 2008 or any other federal law authorizing educational benefits for a veteran and the dependents of a veteran. Applications are available by contacting:

Veterans Programs 2400 N. Scenic Drive Alamogordo, NM 88310, Phone: (575) 439-3600, or Email: veteransNMSUA@nmsu.edu

Veterans: Veterans receiving U.S. Department of Veterans Affairs education benefits are eligible for in-state tuition through the Veterans In-State Tuition Act by submitting a "Resident Tuition Application for Active Military, Veterans, and Dependents of the US Armed Forces" waiver. For further information concerning approved programs and application process, eligible persons should contact:

Veterans Programs 2400 N. Scenic Drive Alamogordo, NM 88310, Phone: (575) 439-3600, or Email: veteransNMSUA@nmsu.edu

Veteran students enrolled under the following programs are responsible for their tuition and fees in the same manner as a nonveteran student:

- Montgomery GI Bill[®]-Active Duty (CH30)
- Dependents (CH35)
- Montgomery GI Bill[®]-Selected Reserve (CH1606)

Post 9/11 students will have the following tuition based scholarships reduced from the amount of tuition reported to the U.S. Department of Veterans Affairs: New Mexico Lottery Scholarship, Bridge Scholarship, NMSU-A Continuing Education Scholarship, and any other tuition based scholarships.

Post 9/11 student tuition and fees will be reported to the Department of Veterans Affair's after census date.

Tuition and fees of students enrolled under the Vocational Rehabilitation Program (CH31) will be paid by the U.S. Department of Veterans Affairs under contract with the university.

Veterans Lounge: The Veterans lounge is open to all student veterans and their dependents. The lounge is a quiet place to decompress and regain your focus. To request the lounge code, please speak with the Veterans Programs office, or fill out the online request form at http://nmsua.edu/student-services/veterans-programs/. You will need to provide proof of veteran or dependent status.

For further assistance, contact the NMSU-A Veterans Programs at (575) 439-3600 or email veteransNMSUA@nmsu.edu

Air Force Portal: Airmen can request information from the Education Office on base by calling (575) 572-3971.

Regulations

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

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

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

Note: Students submitting military transcripts for credit evaluation must remember it can affect the Maximum Time Frame- Pace of Progression policy. Please review the Financial Aid Section for more information.

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

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

Please be aware of our admission and registration process:

- 1. Service members must apply online to be admitted,
- 2. login to my.NMSU.edu to register for classes, and
- create an account and Request TA through their service online portal. Each service has its own criteria for eligibility, application process and restrictions. Refer to our website for service login information: <u>http://nmsua.edu/military/active-duty-and-their-dependents/</u>.

It is important to request TA for the same class and section number as enrolled in NMSU for tuition and grading purposes. Only enrollments requested and approved through their service online portal will be eligible for TA. Refer to our website for further information at <u>http://nmsua.edu/</u> <u>military/active-duty-and-their-dependents/</u> or contact:

Veterans Programs 2400 N. Scenic Drive Alamogordo, NM 88310 Phone: (575) 439-3600, or Email: veteransNMSUA@nmsu.edu

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

- 1. Veterans Programs. VA students ordered to Active Duty must provide a copy of orders to the Veterans Programs Office to assist in reporting accurate information to the VA Regional Office, student should also provide, in writing, last day of class attendance.
- NMSU-A Office of Admissions and Records. All students presenting their orders to the Office of Admissions and Records, (575) 439-3600, will receive a military 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. (575) 646-4701 or (575) 646-4020 or you can email jaynaw@nmsu.edu or tm688@bncollege.com.

Note: The NMSU-Las Cruces Military and Veterans Program processes all Military Withdrawal and will use the documentation submitted to determine eligibility.

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 over-payments. Satisfactory progress and regular class attendance are expected of such students.

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

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

A student receiving VA education benefits who is pursuing a degree program offered by New Mexico State University should adhere to the curriculum of that program. Failure to do so will result in the student being certified for less than full-time status or becoming liable for an overpayment.

Responsibility of Veteran Students: Students must be pursuing a degree in a specific program to be eligible for benefits. Admission procedures for veterans and other eligible persons are the same as for all students. Students must submit a signed degree plan from their Academic advisors to the Veterans Programs prior to certification. For continued certification, students must submit a "Class Schedule and Statement of Account" to the Veterans' Programs office every semester.

Veterans must notify the Veterans' Program office when any of the following occurs:

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

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

- · Classes not attended regularly
- · Repeating a course for which a passing grade was received

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

For further information, contact:

Veterans Programs 2400 N. Scenic Drive Alamogordo, NM 88310 Phone: (575) 439-3600, or Email: veteransNMSUA@nmsu.edu

The NMSU System Academic Regulations

The following regulations are effective with the publication of all the NMSU system catalogs, this includes the Las Cruces-Academic Catalog, Alamogordo Community College, Carlsbad Community College, Dona Ana Community College, and the Grants Community College catalogs. All regulations in this section of the catalog pertain to all the campuses housed with the NMSU System, this means that information for students pursuing Associate Degrees/Certificates, Bachelor's Degree, and Graduate Degrees/Certificates is within the section of the catalog.

The regulations section is broken down into different areas:

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

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

Additional Degree Designations

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

Catalog Effective Period

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

Application for Degree/Graduation or Certificate

Upon completion of all requirements for degrees and certificates, students will not receive their degrees automatically. In order to receive the degree or certificate, students must submit an application and pay the required fee in the semester in which the student expects to graduate or complete the degree or certificate requirements. Specified in the academic calendar for each semester is the deadline for all applications. The application must indicate/ note all designations earned. After awarding of the degree, you cannot add any additional designations.

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

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

Multiple Degrees and Designations

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

Degree Revocation

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

Honorary Degrees

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

Community College Certificate

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

Certificate of Achievement

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

Certificate of Completion

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

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

- 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 earn a minimum grade of C- in courses required for the certificate. In addition, students must have a cumulative GPA of 2.0 or better in all courses taken at NMSU or one of its community colleges.
- 3. **Residency:** A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Associate's Degree

Associate's degrees are of two types. The academic associate's degree prepares students to transfer to a baccalaureate program and generally includes credits toward the first two years of a four-year degree. Academic associate's degrees include the Associate of Arts, the Associate of Science, and other named degrees that link to a specific major (the Associate of Education, for example). Other associate degrees, typically called Associate of Applied Science, prepare students for entry into the workforce. Credits for these programs may or may not apply toward a four-year degree. Students interested in transferring to NMSU or another four-year institution should check the appropriate sections of the university catalog for more information.

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

- Minimum Credit Hours: a minimum of 60 credits (excluding "N" suffix courses). Some programs of study require coursework in excess of the 60 credit-hour minimum.
- 2. **GPA requirement:** Students must have a cumulative GPA of 2.0 or better in all courses taken at NMSU or one of its community colleges.

In addition, students must earn a C- or better in classes they take to meet the Basic Skills requirement (ENGL 111G and one of several math course options),

- 3. **Residency** A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.
- 4. **Major**: All requirements for at least one major field of study as specified in the college and departmental sections of the respective catalog.

Associate Major

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

Baccalaureate Degree (Bachelor's Degree)

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

- 1. Minimum Credit Hours: a minimum of 120 credits (excluding "N" suffix courses)
- 2. **GPA requirement-** a minimum cumulative GPA of 2.0 in all courses taken at NMSU
- New Mexico Common Core- 35-36 credits of state mandated general education courses (as specified in General Education section); such course are designed with a "G"
- New Mexico State University's Viewing a Wider World- 6 credits of Viewing a Wider World courses; such courses are designated with a "V", or alternatives as specified in the Viewing a Wider World section
- 5. **Upper Division Courses-** a minimum of 48 credits in courses numbered 300 or above.
- Residency Of the last 36 credits earned toward award of the degree:
 a. 30 credits must be completed at NMSU
 - b. 21 credits must be upper division (300 or above) and
 - c. 12 of the 21 upper division credits must be within the student's major.

NOTE: colleges or departments may require that more than 12 upper division credits be within the major and they may direct that a certain number of these credits be course specific.

 Major – all requirements for at least one undergraduate major field of study, other than a supplemental major, as specified in the college and departmental sections of the catalog.

Bachelor's Degree Designations

Undergraduate Major

An undergraduate major consists of 24 or more credits within the major field, of which 18 credits must be upper-division courses, and may include courses from more than one department. Additional requirements for majors are specified in the college and department's designated sections of this catalog.

Supplemental Major

A supplemental major consists of 24 or more credits of interdisciplinary coursework, of which at least 18 credits must be upper-division (300-499), and no more than 9 credits may be from the student's major course of

study. Additional requirements for supplemental majors are specified in the catalog listing for the field of study.

Undergraduate Minor

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

Undergraduate Concentration

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

Distance Education Bachelor's Degree Completion Program

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

Graduating with Honors

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

Graduate Degrees

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

Graduate Degree Designations

Graduate Major

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

Graduate Minor

A graduate minor is based on at least 9 graduate credits in courses that encompass a recognized field of study outside the student's major. Departments may require certain courses be a part of a minor and may exclude other courses.

Graduate Concentrations

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

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

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

Graduate Certificates

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

Master's Degree

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

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

Admissions to the Master's Degree

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

Program of Study

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

Application to Candidacy

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

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

The student's program of study must:

- 1. Meet the requirements of the chosen catalog, including the regulations of the Graduate School and of the major department.
- 2. Be signed by the student, the student's advisor, department head, minor faculty if applicable, and academic dean .

3. List each course prefix/number, short title, credit hours and grades if available.

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

Credit Hour Requirement

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

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

Coursework Requirement

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

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

Thesis Option

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

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

Graduate Committee for Thesis Option

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

1. Committee chair:

- a. Must be from the student's home department
- b. Must be a graduate faculty member

2. Committee member(s):

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

3. Dean's Representative:

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

Finalizing the Master's Thesis

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

Professional Degree and Non-Thesis Final Examination

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

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

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

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

Any candidate who fails in the final examination may either.

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

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

Time Limit

Students must complete the master's degree program within seven years (or eight successive summers) of the start of the degree, including completion of the master's thesis or final project. Any coursework more than seven years old at the time of the final examination will not be included in the program. Any exception to the time limit rule must have prior approval of the Dean of the Graduate School.

Master's Accelerated Program (MAP)

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

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

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

Program Participation Requirements:

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

Interdisciplinary Master's Degree

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

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

Admission

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

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

Degree(s) Awarded

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

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

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

- 8. The student may enroll on a part-time basis keeping in mind that coursework cannot be more than seven years old at the time of the final examination.
- 9. The student will be administered a final comprehensive exam that is consistent with the department selected for the primary area of study. For example, if a department requires a written exam, the student in the interdisciplinary masters will also be required to take a written exam.
- The final oral comprehensive exam will consist of questions pertinent to the area of study and the defense of the research thesis or project. In both cases, an integrated approach to the areas of study chosen should be followed.
- 11. All other rules for graduate study at NMSU must be followed.

Thesis/Non-thesis Option

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

Comprehensive Exam

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

Second Master's Degree

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

Teacher Licensure

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

Endorsement is available at both the elementary and secondary levels in bilingual education, TESOL (Teaching of English as a Second Language), reading and special education. Endorsement is also available in early childhood education at the elementary level. Contact curricinstr@nmsu.edu for more information.

Specialist in Education

The specialist in education degree is available for experienced members of the education profession who have completed the master's degree and have maintained a 3.3 grade-point average while pursuing this degree or its equivalent. Programs are available in curriculum and instruction, as well as, school psychology. Emphasis is placed on the development of the competencies needed for a professional specialization in a given field. Students must complete the general application for the Graduate School and they should also check with the admitting department for specific departmental requirements.

Residency and Credit Requirements

The specialist in education degree requires a minimum of 30 credits beyond the master's degree, including research, intern experiences and

graduate courses. Twenty-four of these credits must be completed at NMSU to meet the campus residency requirements.

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

Program of Study

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

Major Field

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

Candidacy

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

Internship

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

Oral Examination

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

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

Time Limit

The specialist in education degree must be completed within seven years following admission to the program. Students cannot include any course work on their program of study that is more than seven years old at the time of the final oral examination.

Doctoral Degrees

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

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

to consult the department in which they wish to study for information concerning specific requirements.

Professional Doctoral Degrees Doctor of Economic Development (DED)

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

Doctor of Education (Ed.D)

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

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

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

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

Doctor of Nursing Practice (DNP)

Students holding a Bachelor's degree in Nursing are required to complete and pass all required course work for the DNP program, as well as, complete and pass their comprehensive examination. Since a dissertation is not required, they are expected to complete an internship experience and a project paper as defined by their program. They can embark on the project paper once they have completed and passed their comprehensive examination. They are not required to take 700 level dissertation hours. However, they are expected to complete at least 12 credits at the 600 level including NURS 698 (Advanced Clinical immersion) credits sufficient to complete the DNP Final Project. Students who hold a Master's of Science in Nursing are required to complete the following:

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

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

Doctor of Philosophy (Ph.D.)

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

Interdisciplinary Doctorate

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

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

- Students wishing to study in the interdisciplinary doctoral degree program must apply and be accepted into a doctorate-granting department.
- 2. A master's degree or equivalent program of study that includes at least 30 credits of graduate course work with a minimum cumulative GPA of 3.0.
- 3. Twelve credits of graduate course work must be completed at NMSU in order to apply for admission into the interdisciplinary doctorate degree program. Additional course work is required for degree completion.
- 4. Evidence of outstanding academic achievement in graduate school.
- 5. A written description of the program concept prepared by the student consisting of:
 - a. Areas in which competency is required
 - b. Purposed readings and course work and how these relate to required competencies
 - c. Objectives and an outline for thesis research
 - d. Justification for not using an existing departmental degree program
- 6. Student must select an advisor from his/her department to help structure and chair a committee consisting of at least five faculty members from the graduate faculty list who are willing to work on the interdisciplinary degree program. The committee must include at least two members from each of the two doctorate-granting

departments. The committee chair will convene a meeting to review and approve the proposed program.

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

Completing your Doctoral Degree Program

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

Declaration of Approved Minor

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

Qualifying Examination

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

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

- For students who enter the Graduate School with little or no previous graduate experience but wish to proceed directly to the doctorate, the qualifying examination should be taken after 12 credits of graduate work
- For students who enter with a master's degree or equivalent from another university, or another department, the qualifying examination should be taken before the completion of one semester of graduate work.
- 3. For students who earn their master's degree at New Mexico State University and will continue in the same department, the department

may allow the master's final examination to serve as the doctoral qualifying examination or may require a separate examination.

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

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

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

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

Doctoral Graduate Committee

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

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

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

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

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

Program of Study

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

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

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

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

Comprehensive Examination

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

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

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

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

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

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

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

Time Limit for the Comprehensive Examination

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

Advancement to Candidacy

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

For advancement to candidacy the following criteria must be met

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

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

Residency Requirements

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

Dissertation Registration during Fall/Spring Sessions

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

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

Dissertation Registration during Summer Sessions

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

Dissertation Leave of Absence

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

Final Examination

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

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

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

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

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

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

Finalizing the Doctoral Dissertation

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

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

Admission Requirement

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

Course Schedule

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

Registration Schedule by Classification

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

University Credits

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

Course Load for Undergraduate Students

The full-time course load in a regular semester (fall or spring) for a main campus undergraduate students is 12-18 credits. A full-time course load for a summer term is 6 credits per session for a total of 12 credit hours. Some scholarships have a 15 credit course load eligibility requirement. Each student is responsible for meeting their own scholarship eligibility requirements.

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

Course Load for Graduate Students

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

Course Numbering

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

Undergraduate courses are assigned numbers 100-499. Courses numbered 100-299 are referred to as "lower-division courses" and are primarily for Freshman and Sophomore level students. Courses numbered 300-499 are referred to as "upper-division courses" and are primarily for Junior and Senior level students. Graduate courses are assigned numbers 500 or greater. Courses numbered 500-599 are primarily for graduate students working on a master's degree. Courses numbered 600-700 are primarily for students working on a doctoral degree.

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

Prerequisites and Corequisites

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

Registration Changes

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

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

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

- 1. Last day to add a class without instructor's signature during this period courses may be added online through myNMSU, or through your academic advisor (if necessary).
- Last day to add a class with instructor's signature during this period courses may only be added with either the "Undergraduate Change of Schedule" or the "Graduate Change of Schedule" form signed by the instructor (available online on the University Student Records Office website).

* Students taking classes online and who do not live in the Las Cruces Area must email the instructor, using the NMSU email, in order to get permission to be added to the course. If the instructor approves the addition, the approved response must be sent to either the student's academic advisor or to registrar@nmsu.edu with the student's name, ID number and course CRN number they are wanting to add.

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

1. Last day to drop without a "W" grade – during this period, the student can drop the course and not have it appear on their official transcript

in any form, and the student will have no financial obligation related to the course (students will receive a 100% refund if tuition has been paid for the course).

 Last day to drop with a "W" grade – during this period, the student can withdraw from the course, but the course will appear on their official transcript with the withdrawal (W) designation as the grade, and the student will be responsible for the full tuition and fees related to that course.

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

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

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

Waitlisting

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

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

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

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

Graduate Registration Requirements for Summer

Students who have scheduled their final examination, or who are completing their thesis during a summer session, must be registered for one credit hour during the same summer session. In order to graduate during a summer session, the student must have filed the Application for Degree by the deadline posted on the Academic Calendar.

Repeating Courses for A Change in Grade

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

Substitutions and Waivers

Students registering for their final semester must have all course substitutions and waivers of required, for their degrees, courses approved before the last day of registration, during the semester in which the student expects to obtain the degree.

Auditing a Course (No Credit)

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

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

Attendance and Student Performance

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

Absences from Class and Failure to Complete Assignments

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

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

Classroom Conduct

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

Student Performance Assessment

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

Academic Program Assessment

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

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

Exam Week and Final Examinations

NMSU designates the last week of each semester as "Exam Week" during which each course has only a single 2 hour meeting time for a mandatory culminating activity which may be a final examination or some other course related activity. The University Student Records Office (USRO) establishes the Final Examination Schedule for each semester (http://registrar.nmsu.edu/final-examination-schedule/). Examinations are typically held in the course's usual lecture/lab room.

Some departments hold Departmental Exams where all students for all sections of a particular course are required to take the final examination simultaneously. The date, time and location of the Departmental Exams are indicated on the Final Examination Schedule. For courses that were not scheduled to meet at the specific times listed under "Regular Class Time" on the USRO's Final Examination Schedule, the instructor and course department coordinate examination dates, times and locations with NMSU's Academic Scheduling office (575) 646-4790. Final exams for weekend courses are held at the regular class period on the last day of class.

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

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

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

Developmental Evaluation

The academic skill level of all entering first-time students at the time of registration is evaluated based upon ACT scores, SAT test scores, and if available, the NMSU Math Placement Exam score. The student's eligibility to enroll in university level English and Mathematics courses is dependent upon this evaluation. Any new student may choose to take the MPE to test towards a higher math placement than indicated by the ACT and high school graduation scores. All new engineering students must take the MPE. More information on the MPE is available from the Department of Mathematics website. <u>https://www.math.nmsu.edu/msc/MPE/overview.html</u>. Students who have not demonstrated adequate preparation for university level courses are required to take developmental courses. Developmental courses are included on the transcript and will be included in the calculation of the GPA, but the developmental course credits do not count towards a degree.

• **Developmental Courses in English** - Students who score below 15 on the ACT English exam will be placed into appropriate developmental English course or course(s) (prefix CCDE) before enrolling in ENGL 111G. Students who score below 13 on the ACT English will require two developmental courses before enrolling in ENGL 111G.

• Developmental Courses in Math - Students who score below 23 on the ACT mathematics exam, and who did not achieve a qualifying score on the NMSU Math Placement Exam (MPE), will be placed into the appropriate development mathematics course or courses (prefix CCDM). Placement into CCDM course(s) is dependent upon the student's ACT score and high school GPA. Students are not allowed to enroll in any other math courses at NMSU until successfully completing any requisite CCDM course(s). (As an alternative to the math developmental course(s), students may complete AS 103 with a C- or better, which does earn credit toward a degree.)

Basic Academic Skills

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

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

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

- ACT English Score of 30
- Coursework ENGL 111G , or equivalent, completed with a grade of Cor higher.

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

- ENGL 111GH completed with a grade of C- or higher
- ENGL 111 M required for International students who took the TOEFL examination
- CLEP Exam score of 57 or higher in freshman college composition
- · English Advanced Placement (AP) Exam score of 3, 4, or 5
- English Composition Transfer Credits 3 or more credits with a grade of C- or above, transferred from accredited postsecondary institutions (International students may be required to take ENGL 111 M as noted above.)

Credits from Non-accredited Institutions - As a general rule, NMSU does not accept credits from non-accredited institutions. Students with 3 or more credits of college-level English composition with a grade of Cor higher from a non-accredited institution may, however, challenge the Basic Academic Skills requirement in English and English 111G course requirement by submitting a theme paper written under the supervision of, and demonstrating achievement of English 111G learning outcomes as determined by, the Department of English.

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

- · ACT Mathematics Score of 23
- · Coursework any one of the following courses or course
 - combinations completed with a grade of C- or higher in each course: • MATH 111 and MATH 112G
 - · Any mathematics course numbered 120 or above (prefix MATH)
 - Any one statistics course: A ST 251G, STAT 251G or STAT 271G
- Basic Skills Exam Passing Score offered twice a semester by the Department of Mathematical Sciences
- Calculus AB, Calculus BC or Statistics Advanced Placement (AP) Exam score of 3, 4, or 5

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

Independent Study and Directed Reading Courses

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

Adjusted Credit Option

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

- All of the student's academic history pre-dating the request, including all NMSU course credits previously attempted or completed, transfer coursework, CLEP, ACT, advanced placement, special examination, and/or military service are included in the adjustment and designated as "ADJUSTED CREDITS" on the transcript. These credits are no longer be included in the calculation of the cumulative grade point average.
- Courses carrying an academic grade of S, CR, C- or better, earned prior to the grading period in which the student requested this option, are treated as earned academic credit and need not be repeated, except where a higher grade is required in the student's academic program.
- Courses carrying an academic grade of U, CD, D or F, earned prior to the grading period in which the student requested this option, remain on the student's transcript, but no academic credit is provided for these courses. The student must repeat these courses to obtain academic credit.
- 4. The student's academic transcripts will continue to reflect all coursework, including courses falling under the adjusted credit option. In no circumstances will a transcript be issued that does not include all courses attempted at this university.

- The student's current academic status, eligibility for employment, and financial aid may be impacted. Probationary status and eligibility for on-campus employment are not affected by the exercise of the adjusted credit option.
- 6. The repeat rule for courses starts anew.
- 7. The student will not be eligible for award of an associate degree until earning thirty (30) or more additional credits after exercise of the Option.
- 8. The student is eligible for University honors at graduation upon completing a minimum of 60 academic credits at NMSU, after the adjusted credit option is exercised, with a resulting grade point average which satisfies University regulations for honors.

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

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

Credit by College Level Examination Program (CLEP)

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

Credit by Examination

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

special examination privilege is based on the principle that the student, exclusively, has the responsibility for preparing for a special examination.

Credit for Military Service

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

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

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

Graduate Course Deficiencies

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

Short Courses for Graduate Students

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

basis and these credits will be counted toward the student's limit of S/U credits.

Challenging Graduate Courses

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

University Grading System

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

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

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

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

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

point-average, the total credits in which grades of A+ through F have been assigned is divided into the total number of grade points earned.

Midterm and Six-Week Early Performance Grades

A Six-Week Early Performance Grade (sometimes referred to as Midterm Grade) for courses numbered 100-299 will be posted and available to students through the MyNMSU portal. The purpose of the early grade posting is to ensure that students have an opportunity to address any performance issues. Students should be mindful that the Six-Week Early Performance Grade reflects a students' performance on only that portion of the total coursework that has been graded at that time. Any student who is doing poorly, or not as well as they would like, should meet with the instructor to discuss how they can improve. Students who have concerns about their progress in multiple courses or who are considering withdrawal from course(s) must meet with their academic advisor.

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

Retention of Grading Records

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

Minimum Grade Requirement for Undergraduate Students

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

Minimum Grade Requirement for Graduate Students

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

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

S/U Grading

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

Designated S/U Courses

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

Election of the S/U Grading Option - Undergraduate Students

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

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

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

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

Election of the S/U Grading Option Election - Graduate Students

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

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

I Grade Designation

The letter grade of I (incomplete) is given for passable work that could not be completed due to circumstances beyond the student's

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

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

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

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

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

RR Grade

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

W Grade Designation

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

Effect of Change of Grade

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

Repeating Courses for a Change in Grade

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

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

Grade Point Average

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

Grading in Graduate Research

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

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

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

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

reported for these courses, the student will be dismissed from the Graduate School.

Withdrawal from a Single Course

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

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

Leave of Absence from the Graduate School

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

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

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

Administrative Withdrawals

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

Military Withdrawal

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

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

1. **Military and Veterans Programs (MVP)**: VA students ordered to Active Duty must provide a copy of orders to the MVP office, in Corbett Center Student Union, Room 244. To assist in reporting accurate information to the VA Regional Office, student should also provide, in writing, last day of class attendance.

- NMSU University Student Records: All students presenting their orders to the University Student Records Office, (575) 646-3411, will receive a military withdrawal from classes and a full tuition and fees refund for that semester.
- 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. (575) 646-4431.

Student Medical Withdrawal

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

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

Medical Conditions of a Family Member Withdrawal

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

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

Once the information is reviewed a final determination will be made if the student is eligible for consideration of tuition or other refunds (Students receiving funds awarded by the University Financial Aid and Scholarship Services should be aware of policies regarding withdrawal from the

University.) At the Las Cruces campus, medical withdrawal begins at the University Student Records Office. At all other campuses, medical withdrawal begins at the Student Services Office.

Withdrawal from NMSU

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

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

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

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

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

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

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

Graduation Requirements

For specific graduation requirements for any degree offered at NMSU please see the 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 an "Application for Degree" as well as pay graduation fees for each degree being sought. The application for Degree form is available online through the MyNMSU website. It must be completed and submitted by the designated deadline for that semester. The fees for the Las Cruces campus are all listed in the Tuition, Fees and other Expenses section of the catalog, once a student submits the application the fee will be included in the total cost for the

semester or session in which the candidate anticipates completing their degree requirements.

If degree requirements are not completed during the semester/ session the student originally applied for, the student must then reapply and pay the appropriate fees. A \$25 late fee applies to applications received after the application deadline, and no applications will be accepted after the posted deadline date.

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

Attendance at the Commencement Ceremony

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

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

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

Academic Regalia

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

Diploma

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

Diplomas will be mailed to graduates approximately eight weeks after the individual colleges certify the degree requirements and the final grades have been processed by the University Student Records Office. The diploma will be mailed to the address specified on the degree application, unless an address change was requested before the last day of the semester.

Undergraduate Academic Standing

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

Undergraduate Academic Warning

Issued only once, the first time a student's cumulative GPA falls below a 2.0 while in good academic standing. The relevant Associate Dean for Academics or Campus Academic Officer (CAO) will send the student a letter detailing the consequences should the cumulative grade point remain below a 2.0 at the conclusion of the semester. A student on Academic Warning remains eligible for all extracurricular activities as governed by the rules of the specific activity.

While under Academic Warning the following restrictions apply:

- The student may be required to enroll in a 3-credit hour special study skills/time management course specifically designed for students on Academic Warning, or an equivalent course approved by the appropriate associate dean or CAO of their campus.
- Students will 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:
- 3. The student may be required to take at least one repeat course to try to improve their GPA.
- 4. Except for the special study skills/time management course, the student's coursework may be restricted to their major.
- 5. The student may be required to get tutoring help.
- 6. The student may be required to see an academic counselor on a specified time schedule.
- The number of credit hours a student may register for may be restricted (due to extenuating circumstances such as the student's workload commitments).

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

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

Undergraduate Academic Probation I

This occurs when a student under Academic Warning has a semester GPA less than 2.0, and the cumulative GPA remains below 2.0 at the conclusion of the semester or if the student maintains a semester GPA greater than 2.0 while on Academic Probation I but the cumulative GPA is still less than 2.0.

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 associate dean in their college as soon as possible to try to implement corrective measures.
- 2. The student will enter into a contract or individualized education plan with their advisor and approved by the associate dean or CAO that place further stipulations on Academic Probation I. The associate dean or CAO may place the student on Academic Probation II or Academic Suspension should the student not adhere to the stipulations of the contract.
- Students on Academic Probation receiving educational benefits from the Veterans' Administration must obtain counseling from the Military & Veterans Programs Office.
- 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 2.0 semester GPA, and the cumulative remains below a 2.0 GPA, while under Academic Probation I. A student on Academic Probation I remains eligible for all extracurricular activities as governed by the rules of the specific activity.

Undergraduate Academic Probation II

Academic Probation II is issued in two ways.

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

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

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

the associate dean or CAO, to place further stipulations on Academic Probation II.

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

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

Continuing in Probationary Status

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

Removal of Academic Probation

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

- 1. a transfer student may not remove probation by summer work alone;
- 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 Adjusted Credit Option does not change academic status until subsequent grades are earned.

Academic Suspension

When a student does not achieve a semester 2.0 GPA or higher, and the cumulative remains below a 2.0 while under Academic Probation II, they are placed on Academic Suspension. Students under Academic Suspension are not allowed to take NMSU courses while under suspension. Students on Academic Suspension must sit out a minimum of 1 semester and then petition the Provost or designee to be removed from Academic Suspension. At this time the suspension status will be evaluated for possible removal. Should the suspension be lifted, the student is placed on Academic Probation II until such time as the cumulative GPA equals or exceeds a 2.0. At the discretion of the Provost or designee, the student will enter into a contract approved by the Provost or designee and the student's Dean or CAO, setting stipulations to have the suspension removed. Failure to adhere to the contract will return the student to Academic Suspension.

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

Rescinding Academic Suspension for Summer Attendance

A student may use summer classes to try to get warning or probationary status removed. Students suspended at the close of the spring semester may have their Academic Suspension rescinded if they attend summer session at NMSU or one of its Community College colleges. 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. Academic Warning status is continued if the student withdraws from the university and the probation or suspension status applies to all subsequent enrollments.

A certification of eligibility to attend summer sessions at NMSU after a spring semester Academic Suspension is available to the suspended student who wishes to attend summer sessions at other institutions.

Graduate Academic Probation and Suspension

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

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

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

Graduate Academic Suspension:

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

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

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

Student Academic Code of Conduct

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

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

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

The SACC distinguishes between Level I Sanctions and Level II sanctions, depending upon the severity of the offense and other factors. The Level 1 sanction includes a formal warning. Offenses by graduate students and repeat offenses, even if less serious are subject to a Level II Sanction. Level II sanctions include a notation of academic misconduct on the student's academic transcript.

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

Policies

- ARP 5-10
- ARP 5-11

Examples of Academic Misconduct and Report Form

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

Flowchart of Procedures

• ARP Appendix 5.11-A

Privacy Rights

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

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

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

Social Security Numbers in Student Records

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

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

Change in Demographic Information

Students wishing to make a legal name change, citizenship change, social security number update or a gender update can do so through the University Student Records Office (USRO). All students will need to fill out the "Demographic Change form" located at https://registrar.nmsu.edu/forms/ and provide one of the following documents to the USRO. Legal name changes will only be processed for students currently enrolled at NMSU or any of its Community Colleges.

- 1. Legal name change: students will need one legal documentation with the new name on it. This can be a Government Issued ID (drivers license, state card or valid passport), a Birth Certificate, a Court Order, a Marriage Certificate/Divorce Decree or a Certificate of Naturalization/1551 Card. *Note: Documentation is not required to add/ delete hyphen, space, apostrophe, or to abbreviate a middle name to initial.*
- 2. Citizenship change: Certificate of Naturalization or I551 card.
- Social Security Number Update: students will need to provide an original signed Social Security Card. Unsigned cards will not be accepted.
- 4. **Gender Update**: students will need to bring a Government Issued ID (drivers license, state ID card or valid passport) and a Revised Birth Certificate

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

For more information about the specific documents that are needed please contact the Registar's Office at (575) 646-3411.

Changes in Residency Status for Tuition Purposes

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

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

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

Official Transcripts

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

Transcripts can either be ordered in person at the University Student Records Office or online at <u>https://registrar.nmsu.edu/transcripts/</u>, there will be a fee for these that may vary depending on the total number of transcripts ordered and the type of delivery method that is selected. A student can request two types of transcripts an electronic one, which is sent as a secured PDF or a printed hard copy that can be delivered in a sealed envelope.

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

Purging of Student Files

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

Graduation Requirements

The ultimate responsibility for planning an academic program in compliance with university, college, and departmental/program requirements rests with the student. In addition, the student bears ultimate responsibility for understanding all matters of the Undergraduate Catalog.

In order to graduate, students must fulfill requirements of a degree plan in a catalog that is no more than six years old when the requirements for graduation are met and is no older than the year when the student began higher education coursework at NMSU.

Note: The degree plans in this catalog are effective summer, 2019, and are in effect through the spring semester 2025.

Associate's Degree

Associate's degrees are of two types. The academic associate's degree prepares students to transfer to a baccalaureate program and generally includes credits toward the first two years of a four-year degree. Academic associate's degrees include the Associate of Arts, the Associate of Science, and other named degrees that link to a specific major (the Associate of Education, for example). Other associate degrees, typically called Associate of Applied Science, prepare students for entry into the workforce. Credits for these programs may or may not apply toward a four-year degree. Students interested in transferring to NMSU or another four-year institution should check the appropriate sections of the university catalog for more information.

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

- Minimum Credit Hours: a minimum of 60 credits (excluding "N" suffix courses). Some programs of study require coursework in excess of the 60 credit-hour minimum.
- GPA requirement: Students must have a cumulative GPA of 2.0 or better in all courses taken at NMSU or one of its community colleges. In addition, students must earn a C- or better in classes they take to meet the Basic Skills requirement (ENGL 111G and one of several math course options),
- Residency A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.
- Major: All requirements for at least one major field of study as specified in the college and departmental sections of the respective catalog.

Associate Major

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

Certificate of Completion

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

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

- 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.
- GPA requirement: Students must earn a minimum grade of C- in courses required for the certificate. In addition, students must have a cumulative GPA of 2.0 or better in all courses taken at NMSU or one of its community colleges.
- 3. **Residency:** A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Deadline for Course Substitutions and Waivers: Latest date for substitution or waiver of required courses for degree candidates is two weeks after the last date of registration for regular or summer terms.

Filing Notice of Degree Candidacy: Degree candidates are required to file an Application for Degree or Application for Certificate for each degree or certificate sought. There is no application fee for certificates. For associate degrees there is no application fee if submitted by the initial deadline noted in the Important dates calendar. Any degree application submitted after the initial deadline but before the final deadline may be assessed a late fee for each associate degree. This fee will be included in the total cost for the semester or session in which the candidate anticipates completing degree requirements. If degree/certificate requirements are not completed during the semester or session, the degree/certificate will be denied and the student must reapply. The Application for Degree form is available online through the MyNMSU website. No applications will be accepted after the posted final deadline date.

A student must specify choice of catalog as indicated under Graduation Requirements.

The latest date for substitution or waiver of required courses for candidates for degrees is two weeks after the last date of registration for regular or summer terms.

Attendance at Commencement: The Vice President for Student Success confirms eligibility to participate in commencement exercises held at the close of the spring semester. Eligible candidates (registered for final degree requirements, as verified by an Academic Advisor) and degree recipients from the previous summer, fall, or current spring semester may participate in the ceremony which is held at the end of every spring semester. Participation in commencement does not, in itself, mean that a student is considered an NMSU-A graduate. In order to receive a degree, a student must fulfill university requirements. The degree will reflect the graduation date from the application for degree in which all degree requirements were met.

Diplomas: Diplomas will be mailed to graduates approximately eight weeks after final grades have been processed by the University Student Records office, concluding a final degree audit by the individual Colleges. The diploma will be mailed to the address specified on the degree application, unless an address change has been requested before the end of the semester.

The name on the diploma will reflect the student's current official NMSU records. Name changes are processed only for currently admitted students. The degree title and major(s) will be printed on the diplomas, in accordance to the degree application award, determined by the academic colleges. Academic honors will also be printed on the diplomas below the degree and major(s).

All fees and bills owed the university must be paid in full before a student may receive a diploma or transcript of credits.

Recognition of Degrees and Certificates: Degrees and certificates earned are recorded on the student's academic record.

Transcript of Credits: An official transcript, the University's certified statement of the student's complete NMSU academic record in chronological order by semester and year, includes coursework, grades, and degrees earned. Credit hours earned through transfer work are not listed in detail, but do appear as cumulative totals. Transcripts are available as digitally signed PDFs or printed copies. Transcripts can be ordered online at <u>http://registrar.nmsu.edu/transcripts/</u>. A fee is charged.

The name on the transcript will be the same as on the official NMSU records. Name changes are processed only for current students. No transcript will be released if the student is in debt to the university.

COMMON COURSE NUMBERING CROSSWALK

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

• **Common Course:** is any course that is offered at multiple institutions throughout the state, has the same prefix/number combination, the

same title, the same description, and at least 80% of the learning outcomes for the course are the same.

 Unique Course: is any course that is unique to the institution (the NMSU system), has a prefix/number combination, title, description and learning outcomes that are unique to the institution (the NMSU System).

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

Current Course	Future Course	Course Type Indicator
A ST- APPLIED STATISTICS		
A ST 251G	MATH 1350G	Common
ACCT-ACCOUNTING		
ACCT 221	ACCT 2110	Common
ACCT 222	ACCT 2120	Common
ACES-AGRI, CONSUMER & ENV SCIE		
ACES 111	ACES 1120	Unique
ACES 121	ACES 1210	Unique
ACES 199	ACES 1220	Unique
AG E-AGRICULTURAL ECONOMICS		
AG E 100	AEEC 1110	Common
AG E 101	AEEC 1120	Unique
AG E 200	AEEC 2996	Unique
AG E 210G	AEEC 2130G	Unique
AG E 236	AEEC 2110	Unique
AG E 250	AEEC 2140	Unique
AG E 260	AEEC 2120	Unique
AGRO-AGRONOMY		
AGRO 100G	AGRO 1110G	Common
AGRO 200	AGRO 2996	Unique
AGRO 250	AGRO 2160	Unique
ANSC-ANIMAL SCIENCE		
ANSC 100	ANSC 1120	Common
ANSC 100 H	ANSC 1120H	Unique
ANSC 100 L	ANSC 1120L	Unique
ANSC 103	ANSC 1160	Unique
ANSC 112	ANSC 1180	Unique
ANSC 190	ANSC 1130	Unique
ANSC 200	ANSC 2330	Common
ANSC 201	ANSC 2340	Common
ANSC 205	ANSC 1140	Unique
ANSC 220	ANSC 1110	Common
ANSC 250	ANSC 2996	Unique
ANSC 261	ANSC 1170	Unique
ANSC 262	ANSC 2310	Common
ANSC 285	ANSC 2140	Unique
ANSC 288	ANSC 2120	Common
ANSC 289	ANSC 2150	Unique
ANSC 290	ANSC 2130	Common

		Uninue
ANSC 295	ANSC 2160	Unique
ANTH-ANTHROPOLOGY		
ANTH 115	ANTH 2140	Common
ANTH 116	ANTH 2150	Common
ANTH 118	ANTH 1136	Unique
ANTH 120G	ANTH 1137G	Unique
ANTH 125G	ANTH 1140G	Common
ANTH 130G	ANTH 1135G	Common
ANTH 130GL	ANTH 1135L	Common
ANTH 201G	ANTH 1115G	Common
ANTH 202G	ANTH 1160G	Common
ANTH 297	ANTH 2996	Unique
ARCT-ARCHITECTURE		
ARCT 101	ARCH 1120	Common
ARCT 104	ARCH 1110	Common
ARCT 111	ARCH 1220	Unique
ARCT 124	ARCH 1112	Unique
ARCT 154	ARCH 1114	Unique
ARCT 170	ARCH 1121	Unique
ARCT 204	ARCH 1122	Unique
ARCT 210	ARCH 2111	Unique
ARCT 211	ARCH 2220	Unique
ARCT 224	ARCH 2113	Unique
ARCT 250	ARCH 2114	Unique
ARCT 254	ARCH 2115	Unique
ARCT 260	ARCH 2116	Unique
ARCT 264	ARCH 2994	Unique
ARCT 274	ARCH 2122	Unique
ARCT 290	ARCH 2996	Unique
ARCT 291	ARCH 2995	Unique
ARCT 295	ARCH 2124	Unique
ART-ART		
ART 101G	ARTH 1115G	Common
ART 110G	ARTS 1145G	Unique
ART 150	ARTS 1610	Common
ART 151	ARTS 2610	Common
ART 155	ARTS 1240	Common
ART 156	ARTS 1250	Common
ART 157	ARTS 1212	Unique
ART 160	ARTS 1711	Unique
ART 161	ARTS 1520	Common
ART 163	ARTS 1712	Unique
ART 165	ARTS 1713	Unique
ART 250	ARTS 1610	Common
ART 252	ARTS 2616	Unique
ART 255	ARTS 2431	Unique
ART 260	ARTS 1630	Common
ART 261	ARTS 2630	Common
ART 262	ARTS 2030 ARTS 2635	Common
ART 265	ARTS 2000 ARTS 2839	Unique
ART 267	ARTS 2039 ARTS 2010	Common
ART 269	ARTS 2010 ARTS 2611	Unique
7411 20 <i>3</i>	/	onique

ART 270	ARTS 1410	Common
ART 272	ARTS 1520	Common
ART 275	ARTS 1310	Common
ART 276	ARTS 1320	Common
ART 280	ARTS 1710	Common
ART 285	ARTS 1810	Common
ART 286	ARTS 2355	Unique
ART 294	ARTS 2996	Unique
ART 295G	ARTH 2110G	Common
ART 296G	ARTH 2120G	Common
ART 298	ARTS 2671	Unique
ASTR-ASTRONOMY		
ASTR 105G	ASTR 1120G	Unique
ASTR 110G	ASTR 1115G	Common
ASTR 199	ASTR 1116	Unique
AXED-AGRICULTURAL EXTN EDUC		
AXED 100	AXED 1110	Unique
AXED 105	AXED 1130	Unique
AXED 200	AXED 2996	Unique
AXED 201G	AXED 2120G	Unique
AXED 205	AXED 2110	Common
AXED 230	AXED 2130	Unique
AXED 232	AXED 2140	Unique
AXED 240	AXED 1120	Unique
BCIS-BUSINESS COMPUTER SYSTEMS		
BCIS 110	BCIS 1110	Common
BIOL-BIOLOGY		
BIOL 101G	BIOL 1120G	Unique
BIOL 101GL	BIOL 1120L	Unique
BIOL 110G	BIOL 1190G	Unique
BIOL 111G	BIOL 2610G	Common
BIOL 111GL	BIOL 2610L	Common
BIOL 150	BIOL 1996	Unique
BIOL 154	BIOL 1130	Common
BIOL 211G	BIOL 2121G	Unique
BIOL 211GL	BIOL 2121L	Unique
BIOL 219	BIOL 2320	Unique
BIOL 221	BIOL 2310	Common
BIOL 221 L	BIOL 2310L	Common
BIOL 225	BIOL 2210	Common
BIOL 226	BIOL 2225	Common
BIOL 227	BIOL 2505	Common
BIOL 250	BIOL 2996	Unique
BIOL 254	BIOL 2221	Unique
BIOL 262	BIOL 2511	Common
BIOL 263	BIOL 2512	Unique
BLAW-BUSINESS LAW		
BLAW 230	BLAW 2110	Common
BMGT-BUSINESS MANAGEMENT		
BMGT 110	BUSA 1110	Common
BMGT 210	MKTG 2110	Common
BMGT 231	BLAW 2120	Common

BMGT 275	ENTR 1110	Common
BUSA-BUSINESS ADMINISTRATION		Common
BUSA 111	BUSA 1110	Common
C D-COMMUNICATION DISORDERS	BUSATITU	Common
C D 221		Common
	SPHS 2110	Common
C D 374	SIGN 1110	Common
C D 375	SIGN 1120	Common
	SIGN 2110	Common
C EP-COUNSELING & EDUC PSY	CEPY 1120G	Unique
C EP 110G		Unique
C EP 199	CEPY 1150	Unique
C EP 210	CEPY 2110	Common
C EP 215	CEPY 2120	Unique
C EP 240	CEPY 2130	Unique
C EP 298	CEPY 2140	Unique
C EP 298 H	CEPY 2140H	Unique
C EP 299	CEPY 2150	Unique
C J-CRIMINAL JUSTICE	0 110 11100	2
C J 101G	CJUS 1110G	Common
C J 199	CJUS 1996	Unique
C J 205	CJUS 1120	Common
C J 210	CJUS 2220	Common
C J 221	CJUS 2140	Common
C J 230	CJUS 2150	Common
C J 250	CJUS 2120	Common
C J 293	CJUS 2160	Common
C S-COMPUTER SCIENCE		
C S 110	BCIS 1110	Common
CAST-CHILD ADVOCACY STUDIES		
CAST 201		
	CAST 1110	Unique
CAST 202	CAST 2110	Unique
CAST 202 CAST 203		
CAST 202 CAST 203 CHEM-CHEMISTRY	CAST 2110 CAST 2120	Unique Unique
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100	CAST 2110 CAST 2120 CHEM 1111	Unique Unique Unique
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101	CAST 2110 CAST 2120 CHEM 1111 CHEM 1121	Unique Unique Unique Unique
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 102	CAST 2110 CAST 2120 CHEM 1111 CHEM 1121 CHEM 1122	Unique Unique Unique Unique Unique
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 102 CHEM 103	CAST 2110 CAST 2120 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1123	Unique Unique Unique Unique Unique Unique
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 102 CHEM 103 CHEM 110G	CAST 2110 CAST 2120 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1123 CHEM 1120G	Unique Unique Unique Unique Unique Unique Common
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 102 CHEM 103 CHEM 110G CHEM 111G	CAST 2110 CAST 2120 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1123 CHEM 1120G CHEM 1216G	Unique Unique Unique Unique Unique Unique Common Unique
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 102 CHEM 103 CHEM 110G CHEM 111G CHEM 111G	CAST 2110 CAST 2120 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1123 CHEM 1120G CHEM 1216G CHEM 1226G	Unique Unique Unique Unique Unique Unique Common Unique Unique
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 102 CHEM 103 CHEM 110G CHEM 111G CHEM 111G CHEM 112G CHEM 115	CAST 2110 CAST 2120 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1123 CHEM 1120G CHEM 1216G CHEM 1226G CHEM 1215	Unique Unique Unique Unique Unique Unique Common Unique Unique Common
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 102 CHEM 103 CHEM 110G CHEM 111G CHEM 111G CHEM 115 CHEM 115	CAST 2110 CAST 2120 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1123 CHEM 1120G CHEM 1216G CHEM 1216G CHEM 1215 CHEM 1225	Unique Unique Unique Unique Unique Unique Common Unique Unique Common Common
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 102 CHEM 103 CHEM 110G CHEM 111G CHEM 111G CHEM 1115 CHEM 115 CHEM 116 CHEM 210	CAST 2110 CAST 2120 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1123 CHEM 1120G CHEM 1216G CHEM 1216G CHEM 1215 CHEM 1225 CHEM 1225 CHEM 2120	Unique Unique Unique Unique Unique Unique Common Unique Unique Common Common Common
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 102 CHEM 103 CHEM 110G CHEM 111G CHEM 111G CHEM 111G CHEM 115 CHEM 116 CHEM 210	CAST 2110 CAST 2120 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1123 CHEM 1120G CHEM 1216G CHEM 1226G CHEM 1215 CHEM 1225 CHEM 2120 CHEM 2115	Unique Unique Unique Unique Unique Unique Common Unique Unique Common Common Common
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 102 CHEM 102 CHEM 103 CHEM 110G CHEM 111G CHEM 111G CHEM 1116 CHEM 115 CHEM 115 CHEM 116 CHEM 210 CHEM 211	CAST 2110 CAST 2120 CHEM 1111 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1123 CHEM 1123 CHEM 1216G CHEM 1216G CHEM 1215 CHEM 1225 CHEM 1225 CHEM 2120 CHEM 2115 CHEM 2226	Unique Unique Unique Unique Unique Unique Common Unique Common Common Common Common Unique
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 102 CHEM 102 CHEM 103 CHEM 110G CHEM 111G CHEM 111G CHEM 111G CHEM 115 CHEM 115 CHEM 116 CHEM 210 CHEM 211 CHEM 217	CAST 2110 CAST 2120 CHEM 1111 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1123 CHEM 1120G CHEM 1216G CHEM 1216G CHEM 1225 CHEM 1225 CHEM 2120 CHEM 2115 CHEM 2226 CHEM 2991	Unique Unique Unique Unique Unique Unique Common Unique Common Common Common Common Unique Unique
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 102 CHEM 103 CHEM 110G CHEM 111G CHEM 111G CHEM 115 CHEM 115 CHEM 115 CHEM 210 CHEM 211 CHEM 211 CHEM 241 CHEM 242	CAST 2110 CAST 2120 CHEM 1111 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1123 CHEM 1120G CHEM 1216G CHEM 1216G CHEM 1226G CHEM 1225 CHEM 1225 CHEM 1225 CHEM 2120 CHEM 2111	Unique Unique Unique Unique Unique Unique Common Unique Unique Common Common Common Common Unique Unique Unique
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 101 CHEM 102 CHEM 103 CHEM 110G CHEM 110G CHEM 111G CHEM 111G CHEM 115 CHEM 115 CHEM 115 CHEM 116 CHEM 210 CHEM 210 CHEM 211 CHEM 211 CHEM 241 CHEM 242 CHEM 251	CAST 2110 CAST 2120 CHEM 1111 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1123 CHEM 1120G CHEM 1216G CHEM 1216G CHEM 1225 CHEM 1225 CHEM 2120 CHEM 2115 CHEM 2226 CHEM 2991	Unique Unique Unique Unique Unique Unique Common Unique Common Common Common Common Unique Unique
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 100 CHEM 101 CHEM 102 CHEM 102 CHEM 103 CHEM 110G CHEM 110G CHEM 111G CHEM 111G CHEM 111G CHEM 115 CHEM 115 CHEM 115 CHEM 115 CHEM 117 CHEM 210 CHEM 211 CHEM 211 CHEM 211 CHEM 211 CHEM 215 CHEM 251	CAST 2110 CAST 2120 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1122 CHEM 1123 CHEM 1216G CHEM 1216G CHEM 1216G CHEM 1225 CHEM 1225 CHEM 2120 CHEM 2120 CHEM 2111 CHEM 2991 CHEM 2991	Unique Unique Unique Unique Unique Unique Common Unique Unique Common Common Common Common Unique Unique Unique Unique
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 102 CHEM 102 CHEM 103 CHEM 110G CHEM 110G CHEM 111G CHEM 111G CHEM 111G CHEM 115 CHEM 115 CHEM 115 CHEM 116 CHEM 210 CHEM 210 CHEM 211 CHEM 211	CAST 2110 CAST 2120 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1123 CHEM 1123 CHEM 1216G CHEM 1216G CHEM 1216G CHEM 1225 CHEM 1225 CHEM 2120 CHEM 2120 CHEM 2115 CHEM 2115 CHEM 2226 CHEM 2991 CHEM 2991 CHEM 2996	Unique Unique Unique Unique Unique Unique Common Unique Unique Common Common Common Common Common Unique Unique Unique Unique Common Common
CAST 202 CAST 203 CHEM-CHEMISTRY CHEM 100 CHEM 101 CHEM 102 CHEM 102 CHEM 103 CHEM 110G CHEM 110G CHEM 111G CHEM 111G CHEM 111G CHEM 115 CHEM 115 CHEM 115 CHEM 116 CHEM 210 CHEM 210 CHEM 211 CHEM 211 CHEM 211 CHEM 211 CHEM 213 CHEM 215 CHEM 251	CAST 2110 CAST 2120 CHEM 1111 CHEM 1121 CHEM 1122 CHEM 1122 CHEM 1123 CHEM 1216G CHEM 1216G CHEM 1216G CHEM 1225 CHEM 1225 CHEM 2120 CHEM 2120 CHEM 2111 CHEM 2991 CHEM 2991	Unique Unique Unique Unique Unique Unique Common Unique Unique Common Common Common Common Unique Unique Unique Unique

		0
	CHIN 2120	Common
CHSS - COMM HEALTH/SOC SRVCS	01100 1110	
CHSS 101	CHSS 1110	Unique
CHSS 216	CHSS 2110	Unique
CHSS 295	CHSS 2511	Unique
CHSS 299	CHSS 2510	Common
CMI - CINEMA & FILM/VIDEO PROD		
СМІ 100	FDMA 1555	Unique
CMI 200	FDMA 2510	Common
CMI 205	FDMA 2520	Common
CMI 216	FDMA 1220	Common
CMI 220	FDMA 2755	Unique
CMI 228	FDMA 2310	Unique
CMI 231	FDMA 2311	Unique
CMI 232	FDMA 2381	Unique
CMI 233	FDMA 2745	Unique
CMI 235	FDMA 2382	Unique
CMI 240	FDMA 2535	Unique
CMI 245	FDMA 1715	Unique
CMI 250	FDMA 2710	Unique
CMI 260	FDMA 1510	Common
CMI 270	FDMA 2725	Unique
CMI 280	FDMA 2530	Common
CMI 290	FDMA 2720	Unique
CMT-CREATIVE MEDIA TECHNOLOGY		
CMT 100	FDMA 1355	Unique
CMT 108	FDMA 1260	Common
CMT 115	FDMA 1545	Common
CMT 120	FDMA 1260	Common
CMT 126	FDMA 2120	Common
CMT 130	FDMA 1360	Common
CMT 135	FDMA 1510	Common
CMT 140	FDMA 1120	Common
CMT 142	FDMA 1535	Common
CMT 145	FDMA 1515	Common
CMT 150	FDMA 1710	Unique
CMT 151	FDMA 1531	Unique
CMT 155	FDMA 1996	Unique
CMT 156	FDMA 2125	Common
CMT 160	FDMA 2530	Common
CMT 165	FDMA 2383	Unique
CMT 170	FDMA 1110	Common
CMT 175	FDMA 1720	Unique
CMT 180	FDMA 1630	Common
CMT 182	FDMA 2112	Unique
CMT 185	FDMA 1725	Unique
CMT 190	FDMA 1210	Common
CMT 195	FDMA 1220	Common
CMT 200	FDMA 2770	Unique
CMT 205	FDMA 2520	Common
CMT 206	FDMA 1415	Unique
CMT 210	FDMA 2210	Unique

CMT 215	FDMA 2285	Common
CMT 216	FMDA 2326	Unique
CMT 220	FDMA 2111	Unique
CMT 221	FDMA 2998	Unique
CMT 222	FDMA 2144	Unique
CMT 223	FDMA 2287	Common
CMT 225	FDMA 2765	Unique
CMT 226	FDMA 2995	Unique
CMT 227	FDMA 2730	Unique
CMT 228	FDMA 2785	Unique
CMT 229	FDMA 2750	Unique
CMT 230	FDMA 2360	Common
CMT 235	FDMA 2365	Unique
CMT 236	FDMA 2410	Common
CMT 240	FDMA 2150	Common
CMT 242	FDMA 1536	Unique
CMT 245	FDMA 2325	Common
CMT 247	FDMA 1410	Common
CMT 248	FDMA 2235	Unique
CMT 251	FDMA 2780	Unique
CMT 252	FDMA 2775	Unique
CMT 254	FDMA 2312	Unique
CMT 255	FDMA 2996	Unique
CMT 256	FDMA 2375	Common
CMT 258	FDMA 2241	Unique
CMT 260	FDMA 2715	Unique
CMT 265	FDMA 2760	Unique
CMT 275	FDMA 2370	Unique
CMT 276	FDMA 2993	Unique
CMT 285	FDMA 2550	Unique
CMT 290	FDMA 2735	Unique
CMT 291	FDMA 2740	Unique
CMT 292	FDMA 2570	Unique
CMT 295	FDMA 2994	Unique
CMT 298	FDMA 2997	Unique
COLL-COLLEGE		
COLL 101	FYEX 1110	Common
COLL 103	FYEX 1116	Unique
COLL 108	FYEX 1133	Unique
COLL 111	FYEX 1130	Unique
COLL 120	FYEX 1140	Unique
COLL 155	FYEX 1996	Unique
COLL 185	FYEX 2994	Unique
COLL 201	FYEX 2111	Unique
COMM-COMMUNICATION		•
COMM 250	COMM 2111	Unique
COMM 253G	COMM 1130G	Common
COMM 265G	COMM 1115G	Common
COMM 285	COMM 2110	Unique
COMM 290	COMM 2997	Unique
COMM 291	COMM 2996	Unique
CTFM-CLTHNG/TXTLS/FSHN MRCHDSG		

CTFM 178	CTFM 1110	Unique
CTFM 202	CTFM 2990	Unique
CTFM 270	CTFM 2120	Unique
CTFM 273	CTFM 2130	Unique
CTFM 289	CTFM 2110	Unique
DANC-DANCE		
DANC 101G	DANC 1110G	Common
DANC 102	DANC 1155	Common
DANC 109	DANC 1135	Unique
DANC 118	DANC 1235	Unique
DANC 121	DANC 1185	Unique
DANC 122	DANC 1220	Unique
DANC 123	DANC 1130	Common
DANC 124	DANC 1160	Common
DANC 125	DANC 1131	Unique
DANC 126	DANC 1150	Common
DANC 127	DANC 1161	Unique
DANC 128	DANC 1221	Unique
DANC 129	DANC 1140	Common
DANC 151	DANC 1210	Unique
DANC 200	DANC 2111	Unique
DANC 202	DANC 2112	Unique
DANC 203	DANC 2113	Unique
DANC 204	DANC 2114	Unique
DANC 205	DANC 2250	Unique
DANC 206	DANC 2251	Unique
DANC 210	DANC 2142	Unique
DANC 212	DANC 2157	Unique
DANC 218	DANC 2235	Unique
DANC 222	DANC 2310	Unique
DANC 223	DANC 2130	Common
DANC 224	DANC 2160	Common
DANC 225	DANC 2311	Unique
DANC 226	DANC 2150	Common
DANC 227	DANC 2161	Unique
DANC 229	DANC 2140	Common
DANC 232	DANC 2320	Unique
DANC 235	DANC 2321	Unique
DANC 279	DANC 2141	Unique
DANC 280	DANC 2270	Unique
DANC 289	DANC 2265	Unique
E S-ENVIRONMENTAL SCIENCE		
E S 110G	ENVS 1110G	Common
E S 256	ENVS 2111	Unique
E S 256 L	ENVS 2111L	Unique
ECED-EARLY CHILDHOOD EDUCATION		
ECED 115	ECED 1110	Common
ECED 125	ECED 1115	Common
ECED 135	ECED 1130	Common
ECED 215	ECED 2120	Common
ECED 220	ECED 2121	Common
ECED 225	ECED 2130	Common

ECED 230ECED 2131CommonECED 253ECED 2116CommonECED 254ECED 126CommonECED 255ECED 126CommonECED 256ECED 216CommonECED 257ECED 216CommonECED 258ECED 216CommonECED 258ECED 216CommonECED 258ECED 218CommonECED 258ECED 228CommonECED 258ECED 228CommonECED 258ECED 228CommonECED 258ECED 228CommonECED 258ECM ECONVERCCommonECM 2500ECM 2106CommonECM 2501ECM 2106CommonECM 2502EDU 2102CommonECM 2502EDU 2103CommonECM 2503EDU 2106CommonECM 2504EDU 2106CommonEDU 2504EDU 2108CommonEDU 151EDU 1519UniqueEDU 151EDU 1519UniqueEDU 252EDU 2598UniqueEDU 253EDU 250UniqueEDU 254EUX 254UniqueEDU 255ELA 254UniqueELA 255ELA 254UniqueELA 255ELA 254UniqueELA 256ENC 1106UniqueELA 256ENC 1106UniqueELA 256ELA 254UniqueELA 256ELA 254UniqueELA 256ELA 254UniqueELA 256ENC 1106CommonELA 256			
EEEB 245ECED 210CommonECED 255ECED 1125CommonECED 270ECED 2140CommonECED 275ECED 2140CommonECED 276ECED 2140CommonECED 276ECED 2280CommonECED 276ECED 2281CommonECED 278ECED 2281CommonECED 279ECED 2281CommonECED 280ECON 2010CommonECED 281ECON 21106CommonECED 282ECON 2102CommonECON 2010ECON 21206CommonECON 2010ECON 21206CommonECON 2010ECON 21206CommonECON 2010EDIC 1101UniqueEDUC 1010EDUC 1102UniqueEDUC 102EDUC 1103UniqueEDUC 103EDUC 1104UniqueEDUC 104EDUC 1104UniqueEDUC 105EDUC 1104UniqueEDUC 105EDUC 1104UniqueEDUC 2042EDUC 1050UniqueEDUC 2042EDUC 1050UniqueEDUC 2044BLED 2110CommonEDUC 2045EDUC 1104UniqueEDUC 2040EDUC 1104UniqueEDUC 2041EDUC 1104UniqueEDUC			
EEED 255ECED 1126CommonEEED 255CECD 1140CommonECED 275ECED 2141CommonECED 276ECED 2141CommonECED 278ECED 2281CommonECED 280ECED 281CommonECED 281ECON 280CommonECED 281ECON 280CommonECED 281ECON 280CommonECED 281ECON 280CommonECON 280ECON 2106CommonECON 280ECON 2106CommonECON 280ECON 2106CommonECON 280ECON 2106CommonECON 280EDU 110UniqueEOU-1728EDU 110UniqueEDU-180EDU 110UniqueEDU 180EDU 110UniqueEDU 181EDU 1180UniqueEDU 182EDU 198UniqueEDU 184EDU 198UniqueEDU 185EDU 198UniqueEDU 184EDU 1996UniqueEDU 292EDU 2929UniqueEDU 293EDU 2930UniqueEDU 294EDU 2930UniqueEDU 294EDU 2930UniqueEDU 295ELA 2930ENA 294EDU 296ENA 294UniqueEDU 297ELA 295UniqueEDU 298ENA 294UniqueEDU 299UniqueENA 294ENA 290ENA 294UniqueENA 291ENA 294UniqueENA 292ENA 294UniqueENA 293ENA 294			
ECED 285ECED 110CommonECED 276ECED 2140CommonECED 276ECED 2280CCED 2280ECED 280ECED 2280CCED 2280ECED 281UniqueECON 2010ECON 2010CommonECON 2015ECON 2010CommonECON 2016ECON 2010CommonECON 2016ECON 2010CommonECON 2016ECON 2010CommonECON 2016ECON 2010CommonECON 2016ECON 2010CommonECON 2016ECON 2010CommonECON 2010EDUC 2010CommonEDUC 2010EDUC 1010UniqueEDUC 101EDUC 1010UniqueEDUC 102EDUC 103CommonEDUC 103EDUC 103UniqueEDUC 104EDUC 1040UniqueEDUC 105EDUC 103EDUC 103EDUC 202EDUC 203UniqueEDUC 202EDUC 203UniqueEDUC 202EDUC 203EDUC 204EDUC 203EDUC 103UniqueEDUC 204ELD 2010UniqueEDUC 205ELD 2010UniqueEDUC 202ELD 2010UniqueEDUC 202ELD 2010UniqueEDUC 203ELD 2010UniqueELA 205ELD 2010UniqueELA 205ELD 2010CommonELA 205ELD 2010CommonELA 205ELD 2010CommonELA 205ELD 2010CommonELA 205ELD 2010Common<			Common
ECED 270ECED 214CommonECED 275ECED 2141CommonECED 276ECED 2141CommonECED 278ECED 2281CommonECED 281ECON 2100CommonECED 281ECON 2100CommonECON 250ECON 2100CommonECON 250ECON 2100CommonECON 250ECON 2100CommonECON 250ECON 2100CommonECON 250ECON 2100CommonECON 250ECON 2100CommonECON 250EDUC 100UniqueEDUF EDUCATIONEDUC 110UniqueEDUC 102EDUC 1198UniqueEDUC 102EDUC 1180UniqueEDUC 103EDUC 1180UniqueEDUC 104EDUC 1050UniqueEDUC 105EDUC 108UniqueEDUC 108EDUC 1095UniqueEDUC 109EDUC 1095UniqueEDUC 204BEDU 2100CommonEDUC 205EDUC 1120CommonEDUC 204BEDU 2110CommonEDUC 205EDUC 1120CommonEDUC 204BEDU 2110CommonEDUC 205EDUC 1120CommonEDUC 206EDUC 1130UniqueEDUC 207EDUC 1130CommonEDUC 208EDUC 1140UniqueEDUC 209EDUC 1195UniqueEDUC 200EDUC 1195UniqueEDUC 201EDUC 1195EDUEDUC 202EDUC 1196UniqueEDUC 203EDUC 119	ECED 255	ECED 1125	Common
ECED 275ECED 2140CommonECED 276ECED 2280CommonECED 281ECED 2820CommonECED 281ECED 2820CommonECON ECONNECSECON 21106CommonECON 2516ECON 21106CommonECON 2516ECON 21106CommonECON 2516EDCN 11106CommonEDUT 268EDL 7110UniqueEDUT 260EDUT 2101UniqueEDUC 101EDUC 1198UniqueEDUC 102EDUC 1980UniqueEDUC 151EDUC 1981UniqueEDUC 151EDUC 1981UniqueEDUC 220EDUC 2980UniqueEDUC 219EDUC 2190UniqueEDUC 2219EDUC 2100UniqueEDUC 232EDUC 185UniqueEDUC 234EDUC 185UniqueEDUC 235ELAD 2310UniqueEDUC 236ELDU 2370UniqueEDUC 237ELAD 2340UniqueEDUC 238ELAD 2340UniqueELA 255ELAD 2340UniqueELA 255ELAD 2340UniqueELA 256ELAD 2340UniqueENGL 1110NGMIUniqueENGL 1116NGL 11104UniqueENGL 1116NGL 11104UniqueENGL 1116NGL 11104UniqueENGL 1116NGL 12106CommonENGL 1116NGL 12106CommonENGL 1116NGL 12106CommonENGL 1116NGL 12106CommonENGL 1116	ECED 265	ECED 1120	Common
ECED 276ECED 2141CommonECED 281ECED 2280CommonECED 281ECD 2281UniqueECON 2016ECON 21106CommonECON 2516ECON 2106CommonECON 2526ECON 2106CommonECON 2526ECON 2106CommonEDUT EDUCATIONEDUC 100EDUC 100EDUC EDUCATIONEDUC 110UniqueEDUC 102EDUC 110UniqueEDUC 103EDUC 110UniqueEDUC 104EDUC 110UniqueEDUC 105EDUC 1198UniqueEDUC 115EDUC 1196UniqueEDUC 115EDUC 1196UniqueEDUC 115EDUC 1196UniqueEDUC 204BLED 2110CommonEDUC 204BLED 2110CommonEDUC 219EDUC 2190UniqueEDUC 219EDUC 2190UniqueEDUC 219EDUC 2190UniqueEDUC 219ELAD 2200UniqueELA 215ELAD 2300UniqueELA 216ELAD 2300UniqueELA 217ELAD 2300UniqueENGL 1116ENGL 1110HUniqueENGL 1116HENGL 1110HUniqueENGL 1116GENGL 120CCommon </td <td>ECED 270</td> <td>ECED 2215</td> <td>Common</td>	ECED 270	ECED 2215	Common
ECED 280ECED 280CommonECED 281ECED 2281UniqueECON ECONMECSECON 11106CommonECON 2516ECON 21106CommonECON 2526ECON 21202CommonEDUT 282ECON 21106CommonEDUT 284EDL 2110UniqueEDUC 4DUC 4TONEDUC 1908UniqueEDUC 1010EDUC 1198CommonEDUC 102EDUC 1198CommonEDUC 103EDUC 1198UniqueEDUC 104EDUC 1995UniqueEDUC 105EDUC 1995UniqueEDUC 202EDUC 2908UniqueEDUC 203EDUC 1100CommonEDUC 204EDUC 1100CommonEDUC 205EDUC 1100CommonEDUC 206EDUC 2710UniqueEDUC 207EDUC 2070CommonEDUC 208EDUC 1100CommonEDUC 2098UniqueCommonEDUC 200EDUC 2010CommonEDUC 2010EDUC 2010CommonEDUC 202EDUC 2020EDUC 2020EDUC 203EDUC 1100CommonEDUC 204EDUC 20112CommonEDUC 205EDUC 1120CommonEDUC 206EDUC 2070UniqueEDUC 2070EDUC 2070UniqueEDUC 208EDUC 208UniqueEDUC 2098UniqueCommonEDUC 200EDUC 200CommonEDUC 2010EDUC 200CommonEDUC 202EDUC 2010CommonEDUC 203	ECED 275	ECED 2140	Common
ECED 281ECED 281UniqueECON 2105ECON 11106CommonECON 2506ECON 21206CommonECON 2507ECON 21206CommonEDT-EDUCATIONUniqueECON 21206EDUC-EDUCATIONEDUC-EDUCATIONUniqueEDUC-EDUCATIONEDUC 110UniqueEDUC-EDUCATIONEDUC 110UniqueEDUC-EDUCATIONEDUC 110UniqueEDUC-EDUCATIONEDUC 110UniqueEDUC-EDUCATIONEDUC 110UniqueEDUC 102EDUC 110UniqueEDUC 103EDUC 110UniqueEDUC 104EDUC 110UniqueEDUC 105EDUC 110UniqueEDUC 115EDUC 110UniqueEDUC 202EDUC 1905UniqueEDUC 203EDUC 204BLED 2110EDUC 204BLED 2110CommonEDUC 215EDUC 218CommonEDUC 216EDUC 219UniqueEDUC 217UniqueEDUC 210EDUC 218ELA 2200UniqueELA 250ELA 2201UniqueELA 250ELA 2201UniqueENG.11116ENG.1110HUniqueENG.1116AENG.1110HUniqueENG.1116AENG.1110HUniqueENG.1116AENG.1200CommonENG.1116AENG.1200CommonENG.1116AENG.1200CommonENG.1116AENG.1200CommonENG.1116AENG.1200CommonENG.1116AENG.1200Common <td>ECED 276</td> <td>ECED 2141</td> <td>Common</td>	ECED 276	ECED 2141	Common
BeconvectionBe	ECED 280	ECED 2280	Common
ECON 2016ECON 11106CommonECON 2026CommonEDUT-EDUCATIONUniqueEDUT-EDUCATIONEDUC 1010EDUC-EDUCATIONEDUC 1010EDUC 101EDUC 1110EDUC 102EDUC 10988UniqueEDUC 1010EDUC 103EDUC 1140EDUC 104EDUC 10998EDUC 105EDUC 1196EDUC 1160EDUC 1196EDUC 1175EDUC 1196EDUC 1181EDUC 1995EDUC 2024EDUC 2016EDUC 2024EDUC 2016EDUC 2034EDUC 1195EDUC 215EDUC 2190EDUC 216EDUC 1180EDUC 2170UniqueEDUC 228EDUC 1180EDUC 219EDUC 2180EDUC 219EDUC 2180ELA 225ELAD 2210ELA 225ELAD 2210ELA 225ELAD 2290ELA 225ELAD 2290ENCL 1111ENGL 11106ENGL 1116ENGL 11106ENGL 1116ENGL 11106ENGL 1116ENGL 11106ENGL 1116ENGL 1120ENGL 1116ENGL 2106ENGL 2206CommonENGL 2206ENGL 2216ENGL 2206ENGL 2216ENGL 2236ENGL 2236E	ECED 281	ECED 2281	Unique
ECON 2516ECON 21106CommonECON 2526ECON 21206CommonECUT-EDUCATIONEDUC 110UniqueEDUC 10EDUC 110UniqueEDUC 101EDUC 1198CommonEDUC 102EDUC 1198CommonEDUC 103EDUC 1190UniqueEDUC 116EDUC 1190UniqueEDUC 1171EDUC 1190UniqueEDUC 1181EDUC 1190UniqueEDUC 1191EDUC 1190UniqueEDUC 1192EDUC 1190UniqueEDUC 1193EDUC 1190UniqueEDUC 1194EDUC 1190UniqueEDUC 1202EDUC 2998UniqueEDUC 219EDUC 210CommonEDUC 219EDUC 1120CommonEDUC 219EDUC 1185UniqueELA 255ELA 2540UniqueELA 255ELA 2540UniqueELA 255ELA 2540UniqueELA 255ELA 2540UniqueELA 255ELA 2540UniqueELA 255ELA 2540UniqueELA 255ELA 2540UniqueENGL 1116ENGL 11104UniqueENGL 1116ENGL 11104UniqueENGL 1116ENGL 11104UniqueENGL 1116ENGL 11104UniqueENGL 1116ENGL 2206CommonENGL 1120ENGL 2206CommonENGL 2206ENGL 22106CommonENGL 2206ENGL 22106CommonENGL 2206ENGL 22106CommonENGL 2205	ECON-ECONOMICS		
ECON 252GECON 2120GCommonEDLT 268EDLT 2110UniqueEDUC-EDUCATIONEDUC 110UniqueEDUC 101EDUC 110UniqueEDUC 102EDUC 1198CommonEDUC 103EDUC 1198CommonEDUC 104EDUC 110UniqueEDUC 105EDUC 1105UniqueEDUC 101EDUC 1016UniqueEDUC 102EDUC 1016UniqueEDUC 103EDUC 103EDUC 103EDUC 104EDUC 104UniqueEDUC 105EDUC 105UniqueEDUC 101EDUC 102CommonEDUC 202EDUC 2098UniqueEDUC 203EDUC 1120CommonEDUC 204ELDU 210CommonEDUC 205ELDU 210CommonEDUC 206ELDU 210UniqueEDUC 207ELAD 230UniqueELA 250ELAD 210UniqueELA 250ELAD 220UniqueELA 250ELAD 220UniqueENGL 1116ENGL 1110GCommonENGL 1116ENGL 1110GCommonENGL 1116ENGL 1120CommonENGL 1116ENGL 210GCommonENGL 112ENGL 210GCommonENGL 113ENGL 210GCommonENGL 114GENGL 210GCommonENGL 115GENGL 220GCommonENGL 116GENGL 220GCommonENGL 216GENGL 220GCommonENGL 220GENGL 220GUniqueENGL 231ENG	ECON 201G	ECON 1110G	Common
EDL7-EDUCATIONEDUC-EDUCATIONEDUC101EDUC110EDUC102EDUC198EDUC103EDUC1198EDUC150EDUC1198EDUC151EDUC1150EDUC151EDUC1150EDUC151EDUC198EDUC151EDUC198EDUC151EDUC198EDUC151EDUC198EDUC151EDUC196EDUC122EDUC298EDUC222EDUC298EDUC230EDUC120EDUC250EDUC120EDUC250EDUC1120EDUC250EDUC1120ELA 250ELD2210ELA 251ELA 230ELA 252ELD230ELA 253ELA 298ELA 254ELA 298ENCL1104UniqueENCL1115ENG 2110ENG 1116ENG 2110ENG 1116ENG 2110ENG 1116ENG 2110ENG 1116ENG 2110ENG 1116ENG 2110ENG 1116ENG 1110MENG 1116ENG 1110MENG 1116ENG 1110MENG 1116ENG 1110MENG 1116ENG 2206ENG 1116ENG 2206ENG 1116ENG 2206ENG 1216ENG 2206ENG 2216UniqueENG 2216UniqueENG 2236ENG 2230ENG 2246ENG 2230ENG 2250CommonENG 226ENG 2260ENG 226ENG 2260ENG 226ENG 2260ENG 226ENG 2260ENG 226ENG 2260<	ECON 251G	ECON 2110G	Common
EDL7 268EDL7 2110UniqueEDUC 101EDUC 110UniqueEDUC 101EDUC 102EDUC 1098UniqueEDUC 103EDUC 1198CommonEDUC 104EDUC 1150UniqueEDUC 105EDUC 1095UniqueEDUC 101EDUC 2002EDUC 2003UniqueEDUC 2024EDUC 210UniqueEDUC 203EDUC 210UniqueEDUC 204EDUC 210UniqueEDUC 205EDUC 210UniqueEDUC 204EDUC 210UniqueEDUC 205EDUC 210UniqueEDUC 206EDUC 210UniqueEDUC 207EDUC 208UniqueEDUC 208EDUC 1120CommonEDUC 209ELA 210UniqueELA 215ELAD 220UniqueELA 215ELAD 220UniqueELA 215ELAD 220UniqueELA 215ELAD 220UniqueENGL 1116ENGL 1110GCommonENGL 1116ENGL 1110GCommonENGL 1116ENGL 1116GCommonENGL 1116ENGL 1116GCommonENGL 1116ENGL 2210GCommonENGL 2116ENGL 2210GCommonENGL 2216UniqueENGL 2210GENGL 2216ENGL 2210GCommonENGL 2216ENGL 2210GCommonENGL 2216ENGL 2210GCommonENGL 223ENGL 2230UniqueENGL 2244ENGL 2240UniqueENGL 2230ENGL 2230Unique <td>ECON 252G</td> <td>ECON 2120G</td> <td>Common</td>	ECON 252G	ECON 2120G	Common
EDUC-EDUCATIONEDUC 101EDUC 119EDUC 102EDUC 1998EDUC 103EDUC 1180EDUC 150EDUC 1140EDUC 151EDUC 1150EDUC 151EDUC 1150EDUC 152EDUC 1995EDUC 195EDUC 1996EDUC 204BLED 2110EDUC 204BLED 2110EDUC 219EDUC 1295EDUC 219EDUC 1206EDUC 219EDUC 2101EDUC 220EDUC 2208EDUC 231EDUC 1202EDUC 232EDUC 1202EDUC 240BLED 2110CommonEDUC 250EDUC 1202EDUC 250EDUC 1202EDUC 250EDUC 1202EDUC 250EDUC 1202ELA 255ELAD 2210ELA 255ELAD 2210ENGL 111 MENGL 1110MENGL 1110MUniqueENGL 1111ENGL 1110GENGL 1111ENGL 1110GENGL 1111ENGL 1110GENGL 1116HENGL 1110GENGL 1116HENGL 1110GENGL 1116HENGL 1110GENGL 1116HENGL 1200ENGL 1116GENGL 2210GENGL 2116GENGL 2210GENGL 2210GCommonENGL 2210GENGMONENGL 2210GCommonENGL 2210GCommonENGL 2210GCommonENGL 2210GCommonENGL 2210GCommonENGL 2210GCommonENGL 2210GCommonENGL 2210GCommonENGL 2210GCommon<	EDLT-EDUCATION		
EDUC 101EDUC 110UniqueEDUC 102EDUC 1998UniqueEDUC 103EDUC 1140UniqueEDUC 151EDUC 1150UniqueEDUC 151EDUC 1950UniqueEDUC 122EDUC 1996UniqueEDUC 202EDUC 1996UniqueEDUC 203EDUC 1120CommonEDUC 204BED2 110OmiqueEDUC 250EDUC 1120CommonEDUC 281EDUC 1120CommonEDUC 282ELA 250ELA 298ELA 255ELA 2996UniqueELA 256ELA 2996UniqueENGL 1110MNiqueENGL 1110HUniqueENGL 1110HUniqueENGL 1110HENGL 1110HENGL 1116HENGL 110HENGL 1116GENGL 120GENGL 1216ENGL 221GENGL 1216ENGL 221GENGL 1216ENGL 221GENGL 1216ENGL 221GENGL 2216CommonENGL 222ENGL 223GENGL 223ENGL 223GENGL 224ENGL 223GENGL 225UniqueENGL 224ENGL 223GENGL 225UniqueENGL 224ENGL 223GENGL 225UniqueENGL 225ENGL 223GENGL 224ENGL 224ENGL 225 <td< td=""><td>EDLT 268</td><td>EDLT 2110</td><td>Unique</td></td<>	EDLT 268	EDLT 2110	Unique
EDUC 102EDUC 198UniqueEDUC 103EDUC 1198CommonEDUC 150EDUC 1140UniqueEDUC 151EDUC 195UniqueEDUC 151EDUC 1956UniqueEDUC 196UniqueEDUC 1962EDUC 202EDUC 2988UniqueEDUC 219EDUC 1120CommonEDUC 219EDUC 1185UniqueEDUC 210EDUC 1120CommonEDUC 221EDUC 1185UniqueEDUC 231EDUC 1185UniqueELA 2155ELAD 2340UniqueELA 255ELAD 2966UniqueENC ENCISHENCENCENC ENCISHENCENCENGL 1110MENGL 1110MUniqueENGL 1116ENGL 1110HUniqueENGL 1116ENGL 1110HUniqueENGL 1116ENGL 2210GCommonENGL 1116ENGL 120GCommonENGL 1116ENGL 1210GCommonENGL 1116ENGL 1210GCommonENGL 1116ENGL 1210GCommonENGL 2210GCommonENGL 2210GENGL 232ENGL 2210GCommonENGL 234ENGL 2310GCommonENGL 235ENGL 2310GCommonENGL 234ENGL 2310GCommonENGL 234ENGL 2310GCommonENGL 234ENGL 2310GCommonENGL 235ENGL 2310GCommonENGL 234ENGL 2320UniqueENGL 235ENGL 2320UniqueENGL 234 <t< td=""><td>EDUC-EDUCATION</td><td></td><td></td></t<>	EDUC-EDUCATION		
EDUC 102EDUC 198UniqueEDUC 103EDUC 1198CommonEDUC 150EDUC 1140UniqueEDUC 151EDUC 195UniqueEDUC 151EDUC 1956UniqueEDUC 196UniqueEDUC 1962EDUC 202EDUC 2988UniqueEDUC 219EDUC 1120CommonEDUC 219EDUC 1185UniqueEDUC 210EDUC 1120CommonEDUC 221EDUC 1185UniqueEDUC 231EDUC 1185UniqueELA 2155ELAD 2340UniqueELA 255ELAD 2966UniqueENC ENCISHENCENCENC ENCISHENCENCENGL 1110MENGL 1110MUniqueENGL 1116ENGL 1110HUniqueENGL 1116ENGL 1110HUniqueENGL 1116ENGL 2210GCommonENGL 1116ENGL 120GCommonENGL 1116ENGL 1210GCommonENGL 1116ENGL 1210GCommonENGL 1116ENGL 1210GCommonENGL 2210GCommonENGL 2210GENGL 232ENGL 2210GCommonENGL 234ENGL 2310GCommonENGL 235ENGL 2310GCommonENGL 234ENGL 2310GCommonENGL 234ENGL 2310GCommonENGL 234ENGL 2310GCommonENGL 235ENGL 2310GCommonENGL 234ENGL 2320UniqueENGL 235ENGL 2320UniqueENGL 234 <t< td=""><td>EDUC 101</td><td>EDUC 1110</td><td>Unique</td></t<>	EDUC 101	EDUC 1110	Unique
EDUC 103EDUC 1198CommonEDUC 150EDUC 1140UniqueEDUC 151EDUC 1150UniqueEDUC 151EDUC 1995UniqueEDUC 195EDUC 1995UniqueEDUC 202EDUC 203EDUC 203EDUC 210CommonEDUC 220EDUC 110CommonEDUC 220EDUC 1120CommonEDUC 220EDUC 1185UniqueEDUC 220EDUC 1185UniqueEDUC 221ELA 2210UniqueELA 255ELA 2230UniqueELA 255ELA 2296UniqueENGL 111 MENGL 1110GCommonENGL 1111ENGL 1110GCommonENGL 1116ENGL 1110GCommonENGL 1116ENGL 1110GCommonENGL 1116ENGL 1110GCommonENGL 1116ENGL 1110GCommonENGL 112ENGL 1110GCommonENGL 1136ENGL 120GCommonENGL 1146ENGL 120GCommonENGL 1156ENGL 2210GCommonENGL 220GENGL 2210GCommonENGL 220GENGL 2310GCommonENGL 232ENGL 2310GCommonENGL 233ENGL 2321GUniqueENGL 234ENGL 2310GCommonENGL 234ENGL 2321GCommonENGL 234ENGL 2310GCommonENGL 234ENGL 2321GCommonENGL 234ENGL 2321GCommonENGL 234ENGL 2321GCommonENGL 234	EDUC 102	EDUC 1998	
EDUC 151EDUC 1150UniqueEDUC 121EDUC 1995UniqueEDUC 1995EDUC 2998UniqueEDUC 204BLED 2110CommonEDUC 204EDUC 1200CommonEDUC 204EDUC 1200CommonEDUC 204EDUC 1200CommonEDUC 205EDUC 1200CommonEDUC 206EDUC 1200CommonEDUC 207EDUC 1200CommonEDUC 208EDUC 1200CommonEDUC 2098EDUC 1200CommonEDUC 200EDUC 1200CommonEDUC 201EDUC 1200CommonEDUC 202EDUC 202EDUC 202EDUC 203EDUC 1200CommonEDUC 204EDUC 202UniqueEDUC 205ELA 2930UniqueELA 255ELAD 2210UniqueENGL 1110ENGL 11104UniqueENGL 1112ENGL 11104CommonENGL 112ENGL 1104CommonENGL 1136ENGL 2206CommonENGL 2036ENGL 2206CommonENGL 2036ENGL 22106CommonENGL 2206ENGL 23106CommonENGL 2206ENGL 23106CommonENGL 232ENGL 2310UniqueENGL 234ENGL 2310UniqueENGL 234ENGL 2310UniqueENGL 234ENGL 2310UniqueENGL 234ENGL 250CommonENGL 234ENGL 250CommonENGL 234ENGL 250CommonENGL 234 <t< td=""><td>EDUC 103</td><td>EDUC 1198</td><td></td></t<>	EDUC 103	EDUC 1198	
EDUC 151EDUC 1150UniqueEDUC 121EDUC 1995UniqueEDUC 1995EDUC 2998UniqueEDUC 204BLED 2110CommonEDUC 204EDUC 1200CommonEDUC 204EDUC 1200CommonEDUC 204EDUC 1200CommonEDUC 205EDUC 1200CommonEDUC 206EDUC 1200CommonEDUC 207EDUC 1200CommonEDUC 208EDUC 1200CommonEDUC 2098EDUC 1200CommonEDUC 200EDUC 1200CommonEDUC 201EDUC 1200CommonEDUC 202EDUC 202EDUC 202EDUC 203EDUC 1200CommonEDUC 204EDUC 202UniqueEDUC 205ELA 2930UniqueELA 255ELAD 2210UniqueENGL 1110ENGL 11104UniqueENGL 1112ENGL 11104CommonENGL 112ENGL 1104CommonENGL 1136ENGL 2206CommonENGL 2036ENGL 2206CommonENGL 2036ENGL 22106CommonENGL 2206ENGL 23106CommonENGL 2206ENGL 23106CommonENGL 232ENGL 2310UniqueENGL 234ENGL 2310UniqueENGL 234ENGL 2310UniqueENGL 234ENGL 2310UniqueENGL 234ENGL 250CommonENGL 234ENGL 250CommonENGL 234ENGL 250CommonENGL 234 <t< td=""><td>EDUC 150</td><td>EDUC 1140</td><td>Unique</td></t<>	EDUC 150	EDUC 1140	Unique
EDUC 181EDUC 1995UniqueEDUC 195EDUC 1996UniqueEDUC 202EDUC 2998UniqueEDUC 202EDUC 2998UniqueEDUC 219EDUC 2710UniqueEDUC 220EDUC 120CommonEDUC 221EDUC 120CommonEDUC 223EDUC 185UniqueELA -EDUC LEADERSHIP & ADMINLLA 2021UniqueELA -EDUC LEADERSHIP & ADMINLLA 2210UniqueELA 298ELA D 290UniqueENGL 1110ENGL 1110GCommonENGL 1116ENGL 1110GCommonENGL 1116ENGL 1110GCommonENGL 1116ENGL 110GCommonENGL 116GENGL 220GCommonENGL 116GENGL 220GCommonENGL 116GENGL 220GCommonENGL 116GENGL 220GCommonENGL 120ENGL 220GCommonENGL 232ENGL 230GCommonENGL 234ENGL 230GCommonENGL 235ENGL 2310GCommonENGL 232ENGL 2310GCommonENGL 232ENGL 232GUniqueENGL 234ENGL 234UniqueENGL 234ENGL 234UniqueENGL 234ENGL 234UniqueENGL 244GENGL 250GCommonENGL 234ENGL 234UniqueENGL 234ENGL 234UniqueENGL 234ENGL 234UniqueENGL 234ENGL 2620CommonENGL 234ENGL 2620Common			
EDUC 195EDUC 196UniqueEDUC 202EDUC 298UniqueEDUC 204BLED 2110CommonEDUC 219EDUC 210UniqueEDUC 220EDUC 1120CommonEDUC 281EDUC 1185UniqueELA 215ELAD 2210UniqueELA 255ELAD 2210UniqueELA 298ELAD 2996UniqueENGL 111MENGL 1110MUniqueENGL 111GENGL 1110MUniqueENGL 111GENGL 1110HUniqueENGL 111GENGL 110GCommonENGL 112ENGL 110GCommonENGL 113CENGL 110GCommonENGL 114GENGL 110GCommonENGL 116HENGL 210GCommonENGL 116GENGL 221GCommonENGL 236ENGL 221GUniqueENGL 236ENGL 221GUniqueENGL 236ENGL 231GCommonENGL 236ENGL 236CommonENGL 236ENGL 236CommonENGL 236ENGL 238UniqueENGL 234ENGL 236CommonENGL 234ENGL 236CommonENGL 244GENGL 250GCommonENGL 244GENGL 250GCommonENGL 244GENGL 250GCommonENGL 244GENGL 260GCommonENGL 244GENGL 260GCommonENGL 244GENGL 260GCommonENGL 252ENGL 262GCommonENGL 254ENGL 262GCommonENGL 254E			
EDUC 202EDUC 298UniqueEDUC 204BLED 2110CommonEDUC 219EDUC 2710UniqueEDUC 281EDUC 1120CommonEDUC 281EDUC 1185UniqueELA - EDUC LEADERSHIP & ADMINEELA 255ELAD 2340UniqueELA 256ELAD 2996UniqueELA 298ELAD 2996UniqueENGL 111 MENGL 1110MUniqueENGL 111GHENGL 1110GCommonENGL 111GHENGL 1110GCommonENGL 115GENGL 220GCommonENGL 116GENGL 221GCommonENGL 210GENGL 221GCommonENGL 210GENGL 221GUniqueENGL 220GENGL 221GUniqueENGL 220GENGL 230GCommonENGL 220GENGL 231GCommonENGL 220GENGL 231GCommonENGL 220GENGL 231GCommonENGL 232ENGL 231GCommonENGL 234ENGL 236GCommonENGL 235ENGL 236GCommonENGL 234ENGL 236GCommonENGL 234ENGL 236GCommonENGL 234ENGL 236GCommonENGL 234ENGL 236GCommonENGL 234ENGL 236GCommonENGL 234ENGL 256GCommonENGL 234ENGL 256GCommonENGL 234ENGL 256GCommonENGL 235ENGL 256GCommonENGL 236ENGL 256GCommonENGL 236 <td></td> <td></td> <td></td>			
EDUC 204BLED 2110CommonEDUC 219EDUC 270UniqueEDUC 250EDUC 1120CommonEDUC 281EDUC 1185CommonELA 2DUC LEADERSHIP & ADMINElaElaELA 255ELAD 230UniqueELA 298ELAD 2210UniqueEAGLISHENGL 110UniqueENGL 111 MENGL 1110MUniqueENGL 111 MENGL 1110MUniqueENGL 111 MENGL 1110HUniqueENGL 111 GENGL 1110HUniqueENGL 112ENGL 1110HUniqueENGL 113CENGL 120CommonENGL 114ENGL 2210GCommonENGL 115GENGL 2210GCommonENGL 2116GENGL 2210GCommonENGL 2116GENGL 2210GCommonENGL 220GENGL 2210GCommonENGL 220GENGL 230GCommonENGL 220GENGL 230GCommonENGL 220GENGL 230GCommonENGL 220GENGL 230GCommonENGL 220GENGL 230GCommonENGL 220GENGL 230GCommonENGL 220GENGL 230GUniqueENGL 244GENGL 2521UniqueENGL 244GENGL 250GCommonENGL 244GENGL 250GCommonENGL 244GENGL 250GCommonENGL 244GENGL 250GCommonENGL 252ENGL 250GCommonENGL 252ENGL 250GCommon <trr>ENGL 254ENGL 250GCommon<</trr>			
EDUC 219EDUC 2710UniqueEDUC 250EDUC 1120CommonEDUC 281EDUC 1185UniqueELA 210ELA 210UniqueELA 215ELAD 2340UniqueELA 253ELAD 296UniqueELA 298ELAD 296UniqueENGL 111 MENGL 1110GCommonENGL 111 MENGL 1110GCommonENGL 1116ENGL 1110GCommonENGL 112ENGL 110GCommonENGL 116ENGL 110GCommonENGL 116ENGL 120CommonENGL 116ENGL 2210GCommonENGL 203GENGL 2210GCommonENGL 218GENGL 2210GCommonENGL 232ENGL 2331UniqueENGL 235ENGL 2384UniqueENGL 235ENGL 2384UniqueENGL 244GENGL 252GCommonENGL 235ENGL 2384UniqueENGL 235ENGL 2384UniqueENGL 235ENGL 2384UniqueENGL 244ENGL 252GCommonENGL 244ENGL 252GCommonENGL 244ENGL 252GCommonENGL 244ENGL 260GCommonENGL 244ENGL 260GCommonENGL 244ENGL 260GCommonENGL 251ENGL 260GCommonENGL 252ENGL 260GCommonENGL 254ENGL 260GCommonENGL 254ENGL 260GCommonENGL 254ENGL 260GCommonENGL 254EN			
EDUC 250EDUC 1120CommonEDUC 281EDUC 1185UniqueELA 2DUC LEADERSHIP & ADMINELA 215ELAD 2340UniqueELA 256ELAD 2210UniqueELA 298ELAD 2996UniqueENGL INIMELAD 2996UniqueENGL 111MENGL 1110GCommonENGL 111GENGL 1110GCommonENGL 111GENGL 1110HUniqueENGL 111GENGL 110GCommonENGL 115GENGL 120CommonENGL 116GENGL 220GCommonENGL 220GENGL 221GUniqueENGL 218GENGL 221GCommonENGL 220GENGL 230GCommonENGL 232ENGL 230GCommonENGL 232GENGL 230GCommonENGL 234ENGL 230GCommonENGL 234ENGL 236CommonENGL 235ENGL 236CommonENGL 244GENGL 252UniqueENGL 244GENGL 250GCommonENGL 244GENGL 250GCommonENGL 244GENGL 260GCommonENGL 244GENGL 260GCommonENGL 252ENGL 260GCommonENGL 251ENGL 260GCommonENGL 252ENGL 260GCommonENGL 254ENGL 260GCommonENGL 254ENGL 260GCommonENGL 254ENGL 260GCommonENGL 254ENGL 260GCommonENGL 254ENGL 260GCommonENGL 254			
EDUC 281EDUC 1185UniqueELA 2EUC LEADERSHIP & ADMINELA 215ELAD 2340UniqueELA 255ELAD 2210UniqueELA 298ELAD 2996UniqueENGL 111 MENGL 1110MUniqueENGL 111 MENGL 1110MCommonENGL 111 MENGL 1110GCommonENGL 111GENGL 1110HUniqueENGL 111GENGL 1110HCommonENGL 111GENGL 1120CommonENGL 112ENGL 120CommonENGL 116GENGL 220GCommonENGL 231GENGL 221GCommonENGL 211GENGL 221GCommonENGL 220GENGL 221GCommonENGL 220GENGL 221GCommonENGL 220GENGL 221GCommonENGL 232ENGL 231GCommonENGL 232ENGL 231GUniqueENGL 235ENGL 232GUniqueENGL 243ENGL 252QCommonENGL 244GENGL 252QCommonENGL 251ENGL 2630CommonENGL 252ENGL 2610CommonENGL 252ENGL 2610CommonENGL 263ENGL 262QCommonENGL 263ENGL 262QCommonENGL 263ENGL 262QCommonENGL 263ENGL 262QCommonENGL 263ENGL 262QCommonENGL 263ENGL 262QCommonENGL 263ENGL 263QUniqueENGL 264ENGL 264QCommonENGL 264ENGL			
ELA EDUC LEADERSHIP & ADMINELA 215ELAD 2340UniqueELA 255ELAD 2210UniqueELA 298BLAD 2996UniqueENGL STAENGL 1100UniqueENGL 111ENGL 1110MCommonENGL 1116ENGL 1110GCommonENGL 1116ENGL 1110GCommonENGL 112ENGL 1120CommonENGL 1136ENGL 120CommonENGL 1166ENGL 220GCommonENGL 1166ENGL 220GCommonENGL 2036ENGL 2210GCommonENGL 2186ENGL 2210GCommonENGL 232ENGL 2310GCommonENGL 232ENGL 2310GCommonENGL 235ENGL 2310GCommonENGL 235ENGL 232UniqueENGL 235ENGL 232UniqueENGL 243ENGL 232CommonENGL 243ENGL 251UniqueENGL 244ENGL 2510CommonENGL 245ENGL 2610CommonENGL 252ENGL 2620CommonENGL 252ENGL 2620CommonENGL 253ENGL 2620CommonENGL 254ENGL 2620CommonENGL 255ENGL 2620CommonENGL 255EN			
ELA 215ELAD 2340UniqueELA 255ELAD 2210UniqueELA 298ELAD 2996UniqueENGL-ENGLISHENGL 111 MENGL 1110MUniqueENGL 1116ENGL 1110GCommonENGL 1116ENGL 1101MUniqueENGL 1116ENGL 1101MUniqueENGL 112ENGL 120CommonENGL 1156ENGL 120CommonENGL 1166ENGL 2206CommonENGL 2116ENGL 2210GCommonENGL 2206ENGL 2310GCommonENGL 232ENGL 2310GCommonENGL 235ENGL 236UniqueENGL 236ENGL 2310GCommonENGL 236ENGL 2310GCommonENGL 236ENGL 2310GCommonENGL 236ENGL 236UniqueENGL 236ENGL 236UniqueENGL 236ENGL 236UniqueENGL 236ENGL 250GCommonENGL 244GENGL 250GCommonENGL 251ENGL 250GCommonENGL 251ENGL 250GCommonENGL 251ENGL 250GCommonENGL 251ENGL 260GCommonENGL 252ENGL 260GCommonENGL 252ENGL 260GCommonENGL 253ENGL 260GCommonENGL 254ENGL 260GCommonENGL 255ENGL 260GCommonENGL 256ENGL 260GCommonENGL 256ENGL 260GCommonENGL 256ENGL 26			0
ELA 255ELA D 210UniqueELA 298ELAD 2996UniqueENGL ENGLISHENGL 1110MUniqueENGL 111 MENGL 1110GCommonENGL 111 GENGL 1110GCommonENGL 111 GENGL 1110HUniqueENGL 112ENGL 1120CommonENGL 115GENGL 120CommonENGL 203GENGL 2210GCommonENGL 211GENGL 2210GCommonENGL 210GCommonENGL 2210GENGL 220GENGL 2210GCommonENGL 232ENGL 2310GCommonENGL 235ENGL 2310GCommonENGL 235ENGL 2321GUniqueENGL 235ENGL 236UniqueENGL 235ENGL 236UniqueENGL 235ENGL 236CommonENGL 244GENGL 250GCommonENGL 251ENGL 2610CommonENGL 252ENGL 2620CommonENGL 253ENGL 2610CommonENGL 254ENGL 2610CommonENGL 255ENGL 2620CommonENGL 254ENGL 2620CommonENGL 255ENGL 2620CommonENGL 254ENGL 2620CommonENGL 255ENGL 2620CommonENG		ELAD 2340	Unique
ELA 298ELAD 2996UniqueENGL-ENGLISHENGL111 MENGL 1110MUniqueENGL111GENGL 1110GCommonENGL111GHENGL 1110HUniqueENGL112ENGL 1120CommonENGL115GENGL 1410GCommonENGL 203GENGL 220GCommonENGL 210GENGL 2210GCommonENGL 210GENGL 2210GCommonENGL 220GENGL 2210GCommonENGL 220GENGL 2210GCommonENGL 230GENGL 2210GCommonENGL 230GENGL 2210GCommonENGL 230GENGL 2210GCommonENGL 230GENGL 2210GCommonENGL 230GENGL 2310GCommonENGL 230GENGL 2310GCommonENGL 230ENGL 2381UniqueENGL 244GENGL 2521UniqueENGL 244GENGL 250GCommonENGL 251ENGL 260GCommonENGL 252ENGL 2610CommonENGL 252ENGL 2620CommonENGL 252ENGL 2620CommonENGL 253ENGL 2620CommonENGL 254ENGL 2620CommonENGL 255ENGL 2620CommonENGL 254ENGL 2620CommonENGL 255ENGL 2620CommonENGL 255ENGL 2620CommonENGL 255ENGL 2620CommonENGL 255ENGL 2620CommonENGL 255ENGL 2620CommonENGL 255ENGL 2620			
ENGL-ENGLISH ENGL111 M ENGL 1110M Unique ENGL111G ENGL 1110G Common ENGL111GH ENGL 110H Unique ENGL112 ENGL 1120 Common ENGL115G ENGL 1410G Common ENGL116G ENGL 220G Common ENGL203G ENGL 2210G Common ENGL211G ENGL 2210G Common ENGL 210G ENGL 2210G Common ENGL 220G ENGL 2210G Common ENGL 220G ENGL 2310G Common ENGL 232 ENGL 2310G Common ENGL 232 ENGL 2381 Unique ENGL 235 ENGL 2382 Unique ENGL 243 ENGL 2521 Unique ENGL 244G ENGL 2521 Unique ENGL 244G ENGL 2650G Common ENGL 251 ENGL 2610 Common ENGL 252 ENGL 2600 Common ENGL 253 ENGL 2600 Common			
ENGL 111 MENGL 1110MUniqueENGL 111GENGL 1110GCommonENGL 111GHENGL 1110HUniqueENGL 112ENGL 1120CommonENGL 115GENGL 120CommonENGL 116GENGL 220GCommonENGL 203GENGL 2210GCommonENGL 218GENGL 2210GCommonENGL 218GENGL 2210GCommonENGL 220GENGL 2310GCommonENGL 232ENGL 2310GCommonENGL 235ENGL 2381UniqueENGL 244GENGL 2520GUniqueENGL 244GENGL 2650GCommonENGL 251ENGL 2610CommonENGL 252ENGL 2610CommonENGL 252ENGL 2620Common			onque
ENGL 111GENGL 1110GCommonENGL 111GHENGL 1110HUniqueENGL 112ENGL 1120CommonENGL 115GENGL 1410GCommonENGL 116GENGL 2520GCommonENGL 203GENGL 2210GCommonENGL 211GENGL 2210GCommonENGL 218GENGL 2210GCommonENGL 220GENGL 2210GCommonENGL 238GENGL 2310GCommonENGL 230GENGL 2310GCommonENGL 235ENGL 2381UniqueENGL 244GENGL 2521UniqueENGL 244GENGL 2650GCommonENGL 251ENGL 2610CommonENGL 252ENGL 2610CommonENGL 252ENGL 2620CommonENGL 252ENGL 2620CommonENGL 252ENGL 2620CommonENGL 253ENGL 2620CommonENGL 263ENGL 280Unique		ENGL 1110M	
ENGL 1110HUniqueENGL 1120ENGL 1120CommonENGL 115GENGL 1410GCommonENGL 116GENGL 2520GCommonENGL 203GENGL 2210GCommonENGL 211GENGL 2210GUniqueENGL 218GENGL 2210GCommonENGL 220GENGL 2310GCommonENGL 232ENGL 2310GCommonENGL 235ENGL 2381UniqueENGL 244GENGL 2521UniqueENGL 244GENGL 250GCommonENGL 251ENGL 2650GCommonENGL 252ENGL 2610CommonENGL 252ENGL 2620CommonENGL 252ENGL 2620CommonENGL 252ENGL 2620CommonENGL 252ENGL 2620CommonENGL 253ENGL 2620CommonENGL 254ENGL 2620CommonENGL 255ENGL 2620CommonENGL 254ENGL 2620CommonENGL 255ENGL 2620CommonENGL 263ENGL 263CommonENGL 263ENGL 26			
ENGL 112ENGL 1120CommonENGL 115GENGL 1410GCommonENGL 116GENGL 2520GCommonENGL 203GENGL 2210GCommonENGL 211GENGL 221GUniqueENGL 218GENGL 2310GCommonENGL 220GENGL 2310GCommonENGL 232ENGL 2381UniqueENGL 235ENGL 2382UniqueENGL 244GENGL 2650GCommonENGL 251ENGL 2650GCommonENGL 252ENGL 2620CommonENGL 252ENGL 2620Common			
ENGL 115GENGL 1410GCommonENGL 116GENGL 2520GCommonENGL 203GENGL 2210GCommonENGL 211GENGL 221GUniqueENGL 218GENGL 2210GCommonENGL 220GENGL 2310GCommonENGL 232ENGL 2381UniqueENGL 235ENGL 2382UniqueENGL 244GENGL 250GCommonENGL 251ENGL 2600CommonENGL 252ENGL 2610CommonENGL 252ENGL 2620CommonENGL 253ENGL 2620CommonENGL 254ENGL 2620CommonENGL 255ENGL 2620CommonENGL 256ENGL 2620CommonENGL 263ENGL 2280Unique			
ENGL 116GENGL 2520GCommonENGL 203GENGL 2210GCommonENGL 211GENGL 2210GUniqueENGL 218GENGL 2210GCommonENGL 220GENGL 2310GCommonENGL 232ENGL 2381UniqueENGL 235ENGL 2382UniqueENGL 244GENGL 2650GCommonENGL 251ENGL 2610CommonENGL 252ENGL 2610CommonENGL 252ENGL 2620CommonENGL 252ENGL 2620CommonENGL 253ENGL 2620CommonENGL 254ENGL 2620CommonENGL 255ENGL 2620CommonENGL 263ENGL 2280Unique			
ENGL 203GENGL 2210GCommonENGL 211GENGL 2221GUniqueENGL 218GENGL 2210GCommonENGL 220GENGL 2310GCommonENGL 232ENGL 2381UniqueENGL 235ENGL 2382UniqueENGL 243ENGL 2521UniqueENGL 244GENGL 2650GCommonENGL 251ENGL 2610CommonENGL 252ENGL 2620CommonENGL 253ENGL 2620Unique			
ENGL 211GENGL 2221GUniqueENGL 218GENGL 2210GCommonENGL 220GENGL 2310GCommonENGL 232ENGL 2381UniqueENGL 235ENGL 2382UniqueENGL 243ENGL 2521UniqueENGL 244GENGL 2650GCommonENGL 251ENGL 2610CommonENGL 252ENGL 2620CommonENGL 263ENGL 280Unique			
ENGL 218GENGL 2210GCommonENGL 220GENGL 2310GCommonENGL 232ENGL 2381UniqueENGL 235ENGL 2382UniqueENGL 243ENGL 2521UniqueENGL 244GENGL 2650GCommonENGL 251ENGL 2610CommonENGL 252ENGL 2620CommonENGL 263ENGL 2880Unique			
ENGL 220GENGL 2310GCommonENGL 232ENGL 2381UniqueENGL 235ENGL 2382UniqueENGL 243ENGL 2521UniqueENGL 244GENGL 2650GCommonENGL 251ENGL 2610CommonENGL 252ENGL 2620CommonENGL 263ENGL 2280Unique			
ENGL 232ENGL 2381UniqueENGL 235ENGL 2382UniqueENGL 243ENGL 2521UniqueENGL 244GENGL 2650GCommonENGL 251ENGL 2610CommonENGL 252ENGL 2620CommonENGL 263ENGL 2280Unique			
ENGL 235ENGL 2382UniqueENGL 243ENGL 2521UniqueENGL 244GENGL 2650GCommonENGL 251ENGL 2610CommonENGL 252ENGL 2620CommonENGL 263ENGL 2280Unique			
ENGL 243 ENGL 2521 Unique ENGL 244G ENGL 2650G Common ENGL 251 ENGL 2610 Common ENGL 252 ENGL 2620 Common ENGL 263 ENGL 2280 Unique			
ENGL 244G ENGL 2650G Common ENGL 251 ENGL 2610 Common ENGL 252 ENGL 2620 Common ENGL 263 ENGL 2280 Unique			
ENGL 251 ENGL 2610 Common ENGL 252 ENGL 2620 Common ENGL 263 ENGL 2280 Unique			
ENGL 252 ENGL 2620 Common ENGL 263 ENGL 2280 Unique			
ENGL 263 ENGL 2280 Unique			
ENGL 271 ENGL 2630 Common			
	ENGL Z/I	ENGL 2030	Common

ENGL 272	ENGL 2640	Common
ENGL 299	ENGL 2996	Unique
EPWS-ETMLGY/PLNT PTHLGY/WD SCI		
EPWS 100	EPWS 1110	Unique
EPWS 100 L	EPWS 1110L	Unique
EPWS 200	EPWS 2996	Unique
FCS-FAMILY AND CHILD SCIENCE		
FCS 181	FCST 1130	Unique
FCS 210	FCST 2110	Unique
FCS 211	FCST 2120	Unique
FCS 212	FCST 2135	Unique
FCS 213	FCST 2140	Unique
FCSE-FAMILY & CONSUMER SCI EDU		
FCSE 235	FCSC 2330	Unique
FCSE 245	FCSC 2250	Unique
FIN-FINANCE		
FIN 206	BFIN 2110	Common
FIN 210	BFIN 2110	Common
FREN-FRENCH		
FREN 111	FREN 1110	Common
FREN 112	FREN 1120	Common
FREN 211	FREN 2110	Common
FREN 212	FREN 2120	Common
FSTE-FOOD SCIENCE & TECHNOLOGY		
FSTE 164G	FSTE 1110G	Unique
FSTE 175	FSTE 1120	Unique
FSTE 200	FSTE 2996	Unique
FSTE 210G	FSTE 2130G	Unique
FSTE 263G	FSTE 2110G	Unique
FSTE 275	FSTE 2120	Unique
FWCE-FISH,WILDLF,CONSERV ECOL		
FWCE 109	FWCE 1120	Unique
FWCE 110G	FWCE 1110G	Unique
FWCE 255	FWCE 2110	Unique
GENE-GENETICS		
GENE 110	GENE 1110	Unique
GEOG-GEOGRAPHY		
GEOG 111G	GEOG 1110G	Common
GEOG 112G	GEOG 1120G	Common
GEOG 120G	GEOG 1130G	Common
GEOG 257	GEOL 2130	Common
GEOG 259	GEOL 2120	Common
GEOG 281	GEOG 2130	Unique
GEOG 291	GEOG 2996	Unique
GEOG 295	GEOG 2610	Unique
GEOL-GEOLOGY		
GEOL 111G	GEOL 1110G	Common
GEOL 212G	GEOL 2310G	Unique
GEOL 220	GEOL 2996	Unique
GER-GERMAN		
GER 111	GRMN 1110	Common
GER 112	GRMN 1120	Common

	CDMN 2110	Common
GER 211	GRMN 2110	Common
GER 212	GRMN 2120	Common
GOVT-GOVERNMENT	Pol 0 11000	0
GOVT 100G	POLS 1120G	Common
GOVT 101	POLS 1111	Unique
GOVT 110G	POLS 1110G	Common
GOVT 150G	POLS 1130G	Common
GOVT 160G	POLS 2120G	Common
GOVT 201	POLS 2996	Unique
HIST-HISTORY	1107 11500	0
HIST 101G	HIST 1150G	Common
HIST 102G	HIST 1160G	Common
HIST 110G	HIST 1105G	Unique
HIST 111G	HIST 1130G	Common
HIST 112G	HIST 1140G	Common
HIST 201G	HIST 1110G	Common
HIST 202G	HIST 1120G	Common
HIST 211G	HIST 2250G	Unique
HIST 212G	HIST 2251G	Unique
HIST 221G	HIST 2245G	Unique
HIST 222G	HIST 2246G	Unique
HIST 261	HIST 2110	Common
HIST 269	HIST 2996	Unique
HNDS-HUMAN NUTRITION & DIET		
HNDS 201	NUTR 2120	Unique
HNDS 251	NUTR 2110	Common
HON-HONORS		
HON 115	HNRS 1110	Unique
HON 208G	HNRS 2114G	Unique
HON 214	HNRS 2111	Unique
HON 216G	HNRS 2115G	Unique
HON 218	GNDR 2120G	Unique
HON 219G	HNRS 2116G	Unique
HON 220G	HNRS 2117G	Unique
HON 222G	HNRS 2120G	
		Unique
HON 227G	HNRS 2140G	Unique
HON 227G HON 228G	HNRS 2140G HNRS 2150G	Unique Unique
HON 227G HON 228G HON 229G	HNRS 2140G HNRS 2150G HNRS 2160G	Unique Unique Unique
HON 227G HON 228G HON 229G HON 230G	HNRS 2140G HNRS 2150G HNRS 2160G HNRS 2141G	Unique Unique Unique Unique
HON 227G HON 228G HON 229G HON 230G HON 232G	HNRS 2140G HNRS 2150G HNRS 2160G HNRS 2141G HNRS 2170G	Unique Unique Unique Unique Unique
HON 227G HON 228G HON 229G HON 230G HON 232G HON 234G	HNRS 2140G HNRS 2150G HNRS 2160G HNRS 2141G HNRS 2170G HNRS 2171G	Unique Unique Unique Unique Unique Unique
HON 227G HON 228G HON 229G HON 230G HON 232G HON 234G HON 235G	HNRS 2140G HNRS 2150G HNRS 2160G HNRS 2141G HNRS 2170G HNRS 2171G HNRS 2161G	Unique Unique Unique Unique Unique Unique
HON 227G HON 228G HON 229G HON 230G HON 232G HON 234G HON 235G	HNRS 2140G HNRS 2150G HNRS 2160G HNRS 2141G HNRS 2170G HNRS 2171G HNRS 2161G HNRS 2172G	Unique Unique Unique Unique Unique Unique Unique
HON 227G HON 228G HON 229G HON 230G HON 232G HON 234G HON 235G HON 237G	HNRS 2140G HNRS 2150G HNRS 2160G HNRS 2141G HNRS 2170G HNRS 2171G HNRS 2161G HNRS 2172G HNRS 2173G	Unique Unique Unique Unique Unique Unique Unique Unique Unique
HON 227G HON 228G HON 229G HON 230G HON 232G HON 234G HON 235G HON 237G HON 239G	HNRS 2140G HNRS 2150G HNRS 2160G HNRS 2141G HNRS 2170G HNRS 2171G HNRS 2161G HNRS 2172G HNRS 2173G HNRS 2190G	Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique
HON 227G HON 228G HON 229G HON 230G HON 232G HON 234G HON 235G HON 237G HON 239G HON 242G	HNRS 2140G HNRS 2150G HNRS 2160G HNRS 2141G HNRS 2170G HNRS 2171G HNRS 2161G HNRS 2172G HNRS 2173G HNRS 2190G HNRS 2180G	Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique
HON 227G HON 228G HON 229G HON 230G HON 232G HON 234G HON 235G HON 237G HON 242G HON 248G HON 249G	HNRS 2140G HNRS 2150G HNRS 2160G HNRS 2141G HNRS 2170G HNRS 2170G HNRS 2171G HNRS 2161G HNRS 2172G HNRS 2173G HNRS 2173G HNRS 2174G	Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique
HON 227GHON 228GHON 229GHON 230GHON 232GHON 234GHON 235GHON 237GHON 242GHON 242GHON 249GHON 265G	HNRS 2140G HNRS 2150G HNRS 2160G HNRS 2141G HNRS 2170G HNRS 2170G HNRS 2171G HNRS 2161G HNRS 2173G	Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique
HON 227G HON 228G HON 229G HON 230G HON 232G HON 234G HON 235G HON 237G HON 239G HON 249G HON 249G HON 265G HON 270G	HNRS 2140G HNRS 2150G HNRS 2160G HNRS 2141G HNRS 2170G HNRS 2170G HNRS 2171G HNRS 2161G HNRS 2172G HNRS 2173G HNRS 2173G HNRS 2174G	Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique
HON 227G HON 228G HON 229G HON 230G HON 232G HON 234G HON 235G HON 237G HON 242G HON 248G HON 249G HON 249G HON 270G HON 270G	HNRS 2140G HNRS 2150G HNRS 2160G HNRS 2141G HNRS 2170G HNRS 2171G HNRS 2161G HNRS 2172G HNRS 2173G HNRS 2173G	Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique
HON 227G HON 228G HON 229G HON 230G HON 232G HON 234G HON 235G HON 237G HON 239G HON 249G HON 249G HON 265G HON 270G	HNRS 2140G HNRS 2150G HNRS 2160G HNRS 2141G HNRS 2170G HNRS 2170G HNRS 2171G HNRS 2161G HNRS 2173G	Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique Unique

HORT 205	HORT 1110	Common
HORT 210	HORT 2110	Unique
HORT 211	HORT 2120	Unique
HORT 240	HORT 2130	Unique
HORT 241	HORT 2990	Unique
HORT 250	HORT 2160	Unique
HRTM-HOTEL/RESTRNT/TOURISM MGT		
HRTM 111	HRTM 1110	Unique
HRTM 200	HRTM 2996	Unique
HRTM 201	HRTM 1120	Unique
HRTM 221	HRTM 1130	Unique
HRTM 231	HRTM 2110	Unique
HRTM 263	HRTM 2120	Unique
JPNS-JAPANESE		
JPNS 111	JAPN 1110	Common
JPNS 112	JAPN 1120	Common
JPNS 211	JAPN 2110	Common
JPNS 212	JAPN 2120	Common
LIB-LIBRARY SCIENCE		
LIB 101	LIBR 1110	Unique
LIB 111	LIBR 1111	Unique
LING-LINGUISTICS		
LING 200G	LING 2110G	Common
MATH-MATHEMATICS		
MATH 101	MATH 1217	Unique
MATH 102	MATH 1221	Unique
MATH 107	MATH 1996	Unique
MATH 111	MATH 1134	Unique
MATH 112G	MATH 2134G	Unique
MATH 120	MATH 1215	Common
MATH 121G	MATH 1220G	Common
MATH 142G	MATH 1430G	Common
MATH 190G	MATH 1250G	Common
MATH 191G	MATH 1511G	Unique
MATH 192G	MATH 1521G	Unique
MATH 192GH	MATH 1521H	Unique
MATH 200	MATH 2992	Unique
MATH 210G	MATH 1130G	Common
MATH 215	MATH 2234	Unique
MATH 235	MATH 1430G	Common
MATH 236	MATH 1440	Common
MATH 279	MATH 1531	Unique
MATH 280	MATH 2415	Unique
MATH 291G	MATH 2530G	Common
MGT-MANAGEMENT		
MGT 201	MGMT 2110	Common
MKTG-MARKETING		
MKTG 203	MKTG 2110	Common
MUS-MUSIC		
MUS 101G	MUSC 1130G	Common
MUS 102	MUSC 1210	Common
MUS 103	MUSC 1450	Unique

MUS 104	MUSC 1451	Unique
MUS 105	MUSC 1460	Unique
MUS 106	MUSC 1461	Unique
MUS 121	MUSC 1310	Common
MUS 130	MUSC 1992	Common
MUS 141	MUSC 1440	Unique
MUS 145	MUSC 1470	Unique
MUS 146	MUSC 1471	Unique
MUS 147	MUSC 1472	Unique
MUS 151	MUSC 2120	Common
MUS 160	MUSC 2120	Common
MUS 161	MUSC 2120	Common
MUS 162	MUSC 2120	Common
MUS 163	MUSC 2130	Common
MUS 164	MUSC 2110	Common
MUS 170	MUSC 2120	Common
MUS 171	MUSC 2110	Common
MUS 172	MUSC 2120	Common
MUS 174	MUSC 2132	Unique
MUS 180	MUSC 2120	Common
MUS 181	MUSC 2120	Common
MUS 201G	MUSC 1110G	Common
MUS 202	MUSC 2151	Unique
MUS 203	MUSC 2451	Unique
MUS 204	MUSC 2452	Unique
MUS 205	MUSC 2460	Unique
MUS 206	MUSC 2461	Unique
MUS 207	MUSC 2240	Unique
MUS 230	MUSC 2992	Unique
MUS 250	MUSC 1410	Common
MUS 251	MUSC 2993	Unique
MUS 260	MUSC 2996	Unique
MUS 261	MUSC 2470	Unique
MUS 262	MUSC 2210	Common
MUS 263	MUSC 2220	Common
MUS 273	MUSC 2310	Common
NURS-NURSING		
NURS 293	NMNC 3110	Common
NURS 294	NMNC 3135	Common
NURS 362	NMNC 3120	Common
NURS 377	NMNC 3210	Common
NURS 378	NMNC 3220	Common
NURS 379	NMNC 3230	Common
NURS 380	NMNC 3235	Common
NURS 395	NMNC 4310	Common
NURS 396	NMNC 4320	Common
NURS 398	NMNC 4335	Common
NURS 466	NMNC 4410	Common
NURS 467	NMNC 4435	Common
NURS 468	NMNC 4445	Common
NURS 486	NMNC 4510	Common
NURS 487	NMNC 4520	Common

NNR5 488NNRC 4839OmmonDEPT 100ATTS 240CommonDEPT 101ATTS 240CommonDEPT 102ATTS 240CommonDEPT 103ATTS 240CommonPE-MSIGAL EDUCATIONCommonPE 102PHED 150CommonPE 103PHED 150CommonPE 104PHED 160CommonPE 105PHED 120CommonPE 107PHED 120CommonPE 108PHED 120CommonPE 109PHED 120CommonPE 113PHED 120CommonPE 114PHED 120CommonPE 115PHED 120CommonPE 117PHED 120CommonPE 118PHED 120CommonPE 119PHED 120CommonPE 119PHED 120CommonPE 119PHED 120CommonPE 121PHED 120CommonPE 122PHED 120CommonPE 133PHED 120CommonPE 144PHED 120CommonPE 145PHED 120CommonPE 147PHED 120CommonPE 148PHED 120CommonPE 149PHED 120CommonPE 141PHED 120CommonPE 142PHED 120CommonPE 143PHED 120CommonPE 144PHED 120CommonPE 145PHED 120CommonPE 146PHED 120CommonPE 147PHED 120Common <t< th=""><th></th><th></th><th></th></t<>																																																																																																																															
OPEPT 100APTS 2410CommonOPEPT 120APTS 2430CommonOPEPT 120APTS 2430CommonOPEPT 120PHED 510CommonPETAVSCAL EDUCATIONPETAVSCAL EDUCATIONCommonPE 103PHED 1510CommonPE 104PHED 1630CommonPE 105PHED 1630CommonPE 104PHED 120CommonPE 105PHED 120CommonPE 112PHED 120CommonPE 113PHED 120CommonPE 114PHED 120CommonPE 115PHED 120CommonPE 117PHED 120CommonPE 118PHED 120CommonPE 119PHED 120CommonPE 121PHED 120CommonPE 122PHED 130CommonPE 123PHED 130CommonPE 124PHED 130CommonPE 125PHED 130CommonPE 134PHED 120CommonPE 144PHED 120CommonPE 145PHED 120CommonPE 146PHED 120CommonPE 147PHED 120CommonPE 148PHED 120CommonPE 149PHED 120CommonPE 149PHED 120CommonPE 149PHED 120CommonPE 149PHED 120CommonPE 140PHED 120CommonPE 141PHED 120CommonPE 142PHED 120CommonPE 143P	NURS 488	NMNC 4535	Common																																																																																																																												
DEPT 100AFTS 2410CommonDEPT 120AFTS 2440CommonDEPT 155AFTS 2440CommonPE-MYSICAL EDUCATIONVCommonPE 1102PHED 1510CommonPE 1103PHED 1510CommonPE 1104PHED 1210CommonPE 1105PHED 1210CommonPE 1112PHED 1210CommonPE 1113PHED 1210CommonPE 1114PHED 1210CommonPE 112PHED 1210CommonPE 113PHED 1210CommonPE 114PHED 1210CommonPE 115PHED 1210CommonPE 117PHED 1210CommonPE 118PHED 1210CommonPE 119PHED 1210CommonPE 129PHED 1310CommonPE 129PHED 1310CommonPE 130PHED 1320CommonPE 131PHED 1320CommonPE 144PHED 1230CommonPE 155PHED 1230CommonPE 156PHED 1230CommonPE 157PHED 1310CommonPE 158PHED 170CommonPE 159PHED 170CommonPE 159PHED 170CommonPE 159PHED 170CommonPE 150PHED 150CommonPE 151PHED 150CommonPE 152PHED 150CommonPE 154PHED 150CommonPE 155PHED 150CommonPE 154PHED 150 </td <td></td> <td>NMNC 4545</td> <td>Common</td>		NMNC 4545	Common																																																																																																																												
DEPT 120ARTS 240UniqueOEPT 155ARTS 2430CommonDEPTASCAL EDUCATIONPELD 1510CommonPE 102PHED 1510CommonPE 103PHED 1510CommonPE 104PHED 1530CommonPE 113PHED 1280CommonPE 114PHED 1210CommonPE 115PHED 1210CommonPE 117PHED 1210CommonPE 117PHED 1210CommonPE 117PHED 1210CommonPE 117PHED 1210CommonPE 117PHED 1210CommonPE 118PHED 1210CommonPE 119PHED 1210CommonPE 127PHED 1310CommonPE 128PHED 1310CommonPE 130PHED 1320CommonPE 141PHED 1230CommonPE 142PHED 1230CommonPE 143PHED 1230CommonPE 144PHED 1230CommonPE 154PHED 1240CommonPE 155PHED 1250CommonPE 127PHED 1250CommonPE 128PHED 2280CommonPE 129PHED 2280CommonPE 226PHED																																																																																																																															
DEPT 155AFTS 2430CommonPE-PHYSICAL EDUCATIONPHED 1510CommonPE 102PHED 1510CommonPE 103PHED 1530CommonPE 104PHED 1530CommonPE 104PHED 1280CommonPE 113PHED 1280CommonPE 114PHED 1210CommonPE 115PHED 1210CommonPE 117PHED 1210CommonPE 118PHED 1210CommonPE 119PHED 1210CommonPE 119PHED 1210CommonPE 119PHED 1210CommonPE 121PHED 1210CommonPE 122PHED 1310CommonPE 123PHED 1320CommonPE 131PHED 1320CommonPE 132PHED 1320CommonPE 144PHED 1230CommonPE 145PHED 1230CommonPE 146PHED 1230CommonPE 147PHED 1230CommonPE 148PHED 1710CommonPE 149PHED 1710CommonPE 159PHED 1830CommonPE 169PHED 1820CommonPE 173PHED 1830CommonPE 184PHED 1710CommonPE 185PHED 2850CommonPE 204PHED 280CommonPE 205PHED 280CommonPE 205PHED 280CommonPE 218PHED 280CommonPE 218PHED 280CommonPE 228PHED 280																																																																																																																															
PE-PHYSICAL EDUCATIONPE 102PHED 1510CommonPE 103PHED 1510CommonPE 104PHED 1500CommonPE 105PHED 1430CommonPE 112PHED 1200CommonPE 113PHED 1210CommonPE 114PHED 1210CommonPE 115PHED 1210CommonPE 117PHED 1210CommonPE 117PHED 1210CommonPE 117PHED 1210CommonPE 117PHED 1210CommonPE 117PHED 1210CommonPE 118PHED 1210CommonPE 129PHED 1310CommonPE 129PHED 1310CommonPE 130PHED 1320CommonPE 141PHED 1320CommonPE 142PHED 1320CommonPE 143PHED 1230CommonPE 144PHED 1230CommonPE 155PHED 1230CommonPE 154PHED 1230CommonPE 155PHED 1310CommonPE 156PHED 1230CommonPE 157PHED 1310CommonPE 158PHED 1410CommonPE 159PHED 1510CommonPE 159PHED 1510CommonPE 159PHED 1520CommonPE 150PHED 2520CommonPE 204PHED 2520CommonPE 205PHED 2520CommonPE 215PHED 2520CommonPE 226PHED 2520Common			Unique																																																																																																																												
PE102PHED 1510CommonPE103PHED 150CommonPE104PHED 1630CommonPE103PHED 1200CommonPE113PHED 1200CommonPE114PHED 1210CommonPE115PHED 1210CommonPE117PHED 1210CommonPE118PHED 1210CommonPE119PHED 1210CommonPE119PHED 1210CommonPE1210PHED 1210CommonPE1211PHED 1210CommonPE122PHED 1510CommonPE123PHED 1200CommonPE124PHED 1200CommonPE130PHED 1200CommonPE131PHED 1200CommonPE144PHED 1200CommonPE145PHED 1710CommonPE146PHED 1700CommonPE147PHED 1200CommonPE148PHED 1200CommonPE149PHED 1200CommonPE149PHED 1200CommonPE140PHED 1200CommonPE1410CommonCommonPE1410CommonCommonPE1421PHED 2510CommonPE2430PHED 2610CommonPE2450PHED 2610CommonPE2450PHED 2620CommonPE2450PHED 2620CommonPE2450PHED 2620CommonPE2450PHED 2620CommonPE2450PHED 2620CommonPE2450 <td></td> <td>ARTS 2430</td> <td>Common</td>		ARTS 2430	Common																																																																																																																												
PE 103 PHED 1510 Common PE 110 PHED 1430 Common PE 113 PHED 1280 Common PE 113 PHED 1280 Common PE 113 PHED 1280 Common PE 114 PHED 1210 Common PE 115 PHED 1210 Common PE 117 PHED 1210 Common PE 117 PHED 1210 Common PE 118 PHED 1210 Common PE 117 PHED 1210 Common PE 118 PHED 1310 Common PE 127 PHED 1310 Common PE 130 PHED 1320 Common PE 143 PHED 1230 Common PE 144 PHED 1230 Common PE 145 PHED 1230 Common PE 146 PHED 1230 Common PE 147 PHED 1230 Common PE 148 PHED 140 Common PE 149 PHED 140 Common PE 150 PHED 140 Common PE 140 PHED 140 Common																																																																																																																															
P E 104P HED 1630CommonP E 103P HED 1280CommonP E 113P HED 1280CommonP E 113P HED 1210CommonP E 114P HED 1210CommonP E 117P HED 1210CommonP E 117P HED 1210CommonP E 118P HED 1210CommonP E 129P HED 1510CommonP E 129P HED 1510CommonP E 130P HED 1300CommonP E 131P HED 1300CommonP E 132P HED 1300CommonP E 134H LED 150CommonP E 144P HED 1230CommonP E 145P HED 1230CommonP E 146P HED 1230CommonP E 147P HED 1230CommonP E 148P HED 1230CommonP E 149P HED 1230CommonP E 149P HED 1230CommonP E 149P HED 1230CommonP E 149P HED 1230CommonP E 150P HED 1210CommonP E 153P HED 1230CommonP E 154P HED 1230CommonP E 155P HED 1250CommonP E 140P HED 1200CommonP E 202P HED 1200CommonP E 203P HED 2200CommonP E 204P HED 2200CommonP E 205P HED 2200CommonP E 205P HED 2200CommonP E 205P HED 2200CommonP E 205P HED 220		PHED 1510	Common																																																																																																																												
P E 109P HED 1430CommonP E 113P HED 1280CommonP E 114P HED 1210CommonP E 114P HED 1210CommonP E 115P HED 1210CommonP E 117P HED 1210CommonP E 117P HED 1210CommonP E 123P HED 1510CommonP E 124P HED 1510CommonP E 125P HED 130CommonP E 130P HED 130CommonP E 131P HED 1230CommonP E 132P HED 1230CommonP E 144P HED 1230CommonP E 145P HED 1230CommonP E 146P HED 1230CommonP E 147P HED 1230CommonP E 148P HED 1230CommonP E 149P HED 1230CommonP E 140P HED 1230CommonP E 145P HED 1230CommonP E 146P HED 1230CommonP E 147P HED 1230CommonP E 148P HED 1240CommonP E 149P HED 1250CommonP E 140P HED 2510CommonP E 202P HED 2510CommonP E 203P HED 2280CommonP E 204P HED 2280CommonP E 213P HED 2280CommonP E 214P HED 2280CommonP E 215P HED 2280CommonP E 215P HED 2280CommonP E 226P HED 2280Common <trr>P E 227P HED 228</trr>			Common																																																																																																																												
P E 112P HED 1280CommonP E 113P HED 1280CommonP E 114P HED 1210CommonP E 115P HED 120CommonP E 117P HED 120CommonP E 127P HED 1510CommonP E 128P HED 1110CommonP E 129P HED 130CommonP E 130P HED 130CommonP E 131P HED 130CommonP E 132P HED 130CommonP E 134H LED 1150CommonP E 146P HED 1230CommonP E 147P HED 1230CommonP E 148P HED 1230CommonP E 146P HED 1230CommonP E 147P HED 1230CommonP E 148P HED 1240CommonP E 202P HED 1250CommonP E 203P HED 1260CommonP E 204P HED 2810CommonP E 205P HED 280CommonP E 216P HED 280CommonP E 217P HED 280CommonP E 218P HED 280CommonP E 219P HED 280CommonP E 218P HED 280CommonP E 219P HED 280CommonP E 219P HED 280Com		PHED 1630	Common																																																																																																																												
P E 113P HED 1280CommonP E 114P HED 1210CommonP E 117P HED 1200CommonP E 117P HED 1200CommonP E 127P HED 1510CommonP E 128P HED 1100CommonP E 129P HED 1310CommonP E 130P HED 1310CommonP E 132P HED 1310CommonP E 133P HED 1320CommonP E 144P HED 1320CommonP E 145P HED 1230CommonP E 146P HED 1230CommonP E 147P HED 1230CommonP E 148P HED 1710CommonP E 159P HED 1710CommonP E 166P HED 1230CommonP E 175P HED 1840CommonP E 186P HED 1710CommonP E 199P HED 1710CommonP E 199P HED 1840CommonP E 199P HED 2510CommonP E 2015P HED 2510CommonP E 2015P HED 2510CommonP E 2015P HED 2520CommonP E 212P HED 2520CommonP E 213P HED 2520CommonP E 214P HED 2520CommonP E 215P HED 2520CommonP E 216P HED 2520CommonP E 217P HED 2520CommonP E 218P HED 2520CommonP E 219P HED 2520CommonP E 216P HED 2520CommonP E 217P HED			Common																																																																																																																												
P E114P HED 1210CommonP E117P HED 1210CommonP E117P HED 1210CommonP E127P HED 1510CommonP E128P HED 1110CommonP E129P HED 130CommonP E130P HED 130CommonP E131P HED 130CommonP E132P HED 130CommonP E133P HED 130CommonP E147P HED 130CommonP E147P HED 130CommonP E148P HED 130CommonP E147P HED 130CommonP E148P HED 120CommonP E146P HED 120CommonP E146P HED 120CommonP E150P HED 1710CommonP E166P HED 170CommonP E173P HED 180CommonP E194P HED 180CommonP E195P HED 180CommonP E196P HED 180CommonP E206P HED 2510CommonP E207P HED 280CommonP E208P HED 280CommonP E212P HED 280CommonP E213P HED 280CommonP E214P HED 280CommonP E215P HED 280CommonP E216P HED 280CommonP E217P HED 280CommonP E218P HED 280CommonP E229P HED 280CommonP E220P HED 280CommonP E220P HED 280 <td></td> <td></td> <td>Common</td>			Common																																																																																																																												
P E115PHED 1210CommonP E117PHED 1290CommonP E127PHED 1610CommonP E128PHED 110CommonP E129PHED 1670CommonP E130PHED 1300CommonP E131PHED 2310CommonP E132PHED 1200CommonP E147PHED 1230CommonP E148PHED 1230CommonP E147PHED 1230CommonP E148PHED 1230CommonP E150PHED 1230CommonP E154PHED 1230CommonP E155PHED 1230CommonP E154PHED 1230CommonP E155PHED 1230CommonP E156PHED 1230CommonP E157PHED 1230CommonP E158PHED 1240CommonP E159PHED 1250CommonP E123PHED 2510CommonP E203PHED 2510CommonP E204PHED 2200CommonP E215PHED 2200CommonP E216PHED 2200CommonP E217PHED 2200CommonP E218PHED 2200CommonP E219PHED 2200CommonP E216PHED 2200CommonP E217PHED 2200CommonP E218PHED 2200CommonP E228PHED 2200CommonP E228PHED 2200CommonP E228PHED 2200CommonP E229PHED 2200Com			Common																																																																																																																												
PE117PHED 1290CommonPE127PHED 1510CommonPE128PHED 1670CommonPE129PHED 1310CommonPE130PHED 1310CommonPE131PHED 1320CommonPE132PHED 210CommonPE134HED 150CommonPE147PHED 120CommonPE148PHED 120CommonPE149PHED 120CommonPE147PHED 120CommonPE148PHED 120CommonPE150PHED 120CommonPE154PHED 120CommonPE155PHED 1710CommonPE166PHED 120CommonPE173PHED 180CommonPE194PHED 180CommonPE202PHED 2510CommonPE203PHED 280CommonPE204PHED 280CommonPE205PHED 280CommonPE216PHED 280CommonPE217PHED 280CommonPE218PHED 280CommonPE219PHED 280CommonPE219PHED 280CommonPE229PHED 280CommonPE229PHED 280CommonPE229PHED 280CommonPE229PHED 280CommonPE229PHED 280CommonPE229PHED 280CommonPE229PHED 280CommonPE229PHED 280CommonPE294HED 280Common </td <td></td> <td>PHED 1210</td> <td>Common</td>		PHED 1210	Common																																																																																																																												
P E 127 P HED 1510 Common P E 128 P HED 1110 Common P E 129 P HED 130 Common P E 130 P HED 1320 Common P E 132 P HED 230 Common P E 134 HED 120 Common P E 134 HED 1230 Common P E 147 P HED 1230 Common P E 148 P HED 1230 Common P E 154 P HED 170 Common P E 154 P HED 170 Common P E 154 P HED 170 Common P E 159 P HED 1830 Common P E 199 P HED 1830 Common P E 202 P HED 2510 Common P E 203 P HED 2510 Common P E 204 P HED 280 Common P E 205 P HED 280 Common P E 215 P HED 280 Common P E 216 P HED 280 Common P E 215 P HED 280 Common P E 216 P HED 280 Common P E 217 P HED 280 Com			Common																																																																																																																												
P E 128 P HED 1110 Common P E 129 P HED 1670 Common P E 130 P HED 1320 Common P E 131 P HED 1320 Common P E 132 P HED 2310 Common P E 134 H ED 120 Common P E 147 P HED 1230 Common P E 148 P HED 1230 Common P E 150 P HED 1710 Common P E 156 P HED 1290 Common P E 173 P HED 1290 Common P E 173 P HED 1830 Common P E 173 P HED 1830 Common P E 202 P HED 2510 Common P E 203 P HED 2510 Common P E 204 P HED 250 Common P E 205 P HED 2620 Common P E 213 P HED 2620 Common P E 224 P HED 2620 Common P E 225 P HED 2670 Common P E 226 P HED 2670 Common P E 228 <td></td> <td></td> <td>Common</td>			Common																																																																																																																												
P E 129P HED 1670CommonP E 130P HED 1310CommonP E 131P HED 1320CommonP E 132P HED 2310CommonP E 134H LED 1160CommonP E 147P HED 1230CommonP E 148P HED 1230CommonP E 149P HED 1230CommonP E 150P HED 1230CommonP E 154P HED 1710CommonP E 155P HED 1700CommonP E 156P HED 1290CommonP E 173P HED 1830CommonP E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 2520CommonP E 205P HED 2280CommonP E 212P HED 2280CommonP E 215P HED 2280CommonP E 215P HED 2280CommonP E 228P HED 2280CommonP E 228P HED 2700CommonP E 229P HED 2800CommonP E 229P HED 2800CommonP E 229P HED 2800CommonP E 229P HED 2800CommonP E 230P HED 2800CommonP E 240P HED 2800CommonP E 250P HED 28	P E 127	PHED 1510	Common																																																																																																																												
P E 130P HED 1310CommonP E 131P HED 1320CommonP E 132P HED 2310CommonP E 134H HED 1150CommonP E 147P HED 1230CommonP E 148P HED 1230CommonP E 150P HED 1230CommonP E 154P HED 1710CommonP E 155P HED 1290CommonP E 166P HED 1290CommonP E 173P HED 1830CommonP E 199P HED 1410CommonP E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 250CommonP E 205P HED 280CommonP E 213P HED 280CommonP E 215P HED 280CommonP E 215P HED 280CommonP E 216P HED 280CommonP E 217P HED 280CommonP E 218P HED 280CommonP E 219P HED 280CommonP E 210P HED 280CommonP E 211P HED 280CommonP E 228P HED 210CommonP E 299P HED 210CommonP E 290P HED 210CommonP E 291P HED 280CommonP E 293P HED 280CommonP E 294P HED 290CommonP E 295P HED 290CommonP E 296P HED 290CommonP E 297P HED 290CommonP E 298P HED 290Common <td></td> <td></td> <td>Common</td>			Common																																																																																																																												
P E 131P HED 1320CommonP E 132P HED 2310CommonP E 134H LED 1150CommonP E 147P HED 1230CommonP E 148P HED 1230CommonP E 150P HED 1230CommonP E 154P HED 1710CommonP E 155P HED 1710CommonP E 156P HED 1710CommonP E 157P HED 1710CommonP E 158P HED 1710CommonP E 173P HED 1830CommonP E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 1620CommonP E 206P HED 280CommonP E 212P HED 280CommonP E 213P HED 280CommonP E 216P HED 280CommonP E 217P HED 280CommonP E 218P HED 280CommonP E 229P HED 280CommonP E 229P HED 280CommonP E 229P HED 280CommonP E 230P HED 280CommonP E 243P HED 280CommonP E 253P HED 280CommonP E 263P HED 280CommonP E 294P HED 280CommonP E 295P HED 280CommonP E 296P HED 280CommonP E 298HED 2996CommonP E 298HED 210CommonP E 298HED 210Unique </td <td>P E 129</td> <td>PHED 1670</td> <td></td>	P E 129	PHED 1670																																																																																																																													
P E 132 P HED 2310 Common P E 134 HLED 1150 Common P E 147 P HED 1230 Common P E 148 P HED 1230 Common P E 150 P HED 1230 Common P E 150 P HED 1230 Common P E 150 P HED 1710 Common P E 153 P HED 1700 Common P E 173 P HED 1830 Common P E 202 P HED 2510 Common P E 203 P HED 2510 Common P E 204 P HED 2520 Common P E 205 P HED 2620 Common P E 212 P HED 2620 Common P E 213 P HED 2620 Common P E 214 P HED 2620 Common P E 215 P HED 2620 Common P E 216 P HED 2620 Common P E 217 P HED 2620 Common P E 228 P HED 270 Common P E 229 P HED 270 Common P E 230 <td>P E 130</td> <td>PHED 1310</td> <td>Common</td>	P E 130	PHED 1310	Common																																																																																																																												
PE 134HLED 1150CommonPE 147PHED 1230CommonPE 148PHED 1230CommonPE 150PHED 1230CommonPE 154PHED 1710CommonPE 159PHED 1710CommonPE 179PHED 1830CommonPE 199PHED 1410CommonPE 202PHED 2510CommonPE 203PHED 2510CommonPE 204PHED 2510CommonPE 205PHED 250CommonPE 212PHED 2200CommonPE 221PHED 2500CommonPE 222PHED 2500CommonPE 223PHED 2620CommonPE 224PHED 280CommonPE 225PHED 280CommonPE 226PHED 280CommonPE 227PHED 280CommonPE 228PHED 260CommonPE 229PHED 2670CommonPE 228PHED 270CommonPE 229PHED 270CommonPE 230PHED 290CommonPE 240PHED 290CommonPE 253PHED 290CommonPE 290PHED 210CommonPE 2920PHED 210CommonPE 2920PHED 210CommonPE 2920PHED 210CommonPE 2920PHED 210UniquePE 2920HED 2140UniquePE 2920PHED 2920UniquePE 2920PHED 2920Unique <tr <td="">PE 2920PHED 2920<t< td=""><td></td><td></td><td>Common</td></t<></tr> <tr><td>P E 147P HED 1230CommonP E 148P HED 1230CommonP E 150P HED 1230CommonP E 154P HED 1710CommonP E 159P HED 1710CommonP E 166P HED 170CommonP E 173P HED 1830CommonP E 199P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 2620CommonP E 206P HED 280CommonP E 213P HED 280CommonP E 213P HED 280CommonP E 215P HED 280CommonP E 216P HED 280CommonP E 217P HED 280CommonP E 218P HED 280CommonP E 229P HED 280CommonP E 229P HED 280CommonP E 230P HED 280CommonP E 230P HED 280CommonP E 290P HED 280CommonP E 291P HED 280CommonP E 292P HED 280CommonP E 293P HED 280CommonP E 294P HED 280CommonP E 295P HED 280CommonP E 296P HED 280CommonP E 297P HED 280CommonP E 298HED 299CommonP E 299P HED 280CommonP E 298HED 280CommonP E 298HED 280CommonP E 298HED 280Common<t< td=""><td></td><td>PHED 2310</td><td>Common</td></t<></td></tr> <tr><td>P E 148P HED 1230CommonP E 150P HED 1230CommonP E 154P HED 1710CommonP E 159P HED 1710CommonP E 166P HED 1990CommonP E 173P HED 1300CommonP E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 250CommonP E 206P HED 280CommonP E 213P HED 280CommonP E 215P HED 280CommonP E 216P HED 280CommonP E 217P HED 280CommonP E 218P HED 280CommonP E 219P HED 280CommonP E 216P HED 280CommonP E 217P HED 280CommonP E 218P HED 280CommonP E 229P HED 280CommonP E 230P HED 280CommonP E 230P HED 280CommonP E 230P HED 2910CommonP E 230P HED 2910CommonP E 230P HED 2910CommonP E 299P HED 2110CommonP E 298HED 2110Common<tr< td=""><td></td><td>HLED 1150</td><td>Common</td></tr<></td></tr> <tr><td>PE 150PHED 1230CommonPE 154PHED 1710CommonPE 159PHED 1710CommonPE 166PHED 1290CommonPE 173PHED 1830CommonPE 173PHED 1840CommonPE 202PHED 2510CommonPE 203PHED 2510CommonPE 204PHED 250CommonPE 205PHED 1620CommonPE 210PHED 280CommonPE 212PHED 280CommonPE 213PHED 280CommonPE 214PHED 280CommonPE 215PHED 280CommonPE 226PHED 280CommonPE 215PHED 280CommonPE 228PHED 280CommonPE 229PHED 280CommonPE 229PHED 280CommonPE 229PHED 280CommonPE 229PHED 280CommonPE 290PHED 290CommonPE 291PHED 290CommonPE 292PHED 290CommonPE 293PHED 2910CommonPE 294PHED 2910CommonPE 295PHED 2910CommonPE 296HED 2910CommonPE 297PHED 2910CommonPE 298HED 2910CommonPE 298HED 2910CommonPE 299HED 2910CommonPE 290HED 2140UniquePE 2010HED 2140UniquePE 2010HED 2140Unique<td< td=""><td></td><td></td><td>Common</td></td<></td></tr> <tr><td>P E 154PHED 1710CommonP E 159PHED 1700CommonP E 166PHED 1290CommonP E 173PHED 1830CommonP E 199PHED 1410CommonP E 202PHED 2510CommonP E 203PHED 2510CommonP E 204PHED 2510CommonP E 205PHED 1620CommonP E 206PHED 2800CommonP E 212PHED 2800CommonP E 213PHED 2800CommonP E 215PHED 2800CommonP E 216PHED 2800CommonP E 217PHED 2800CommonP E 218PHED 2800CommonP E 228PHED 2800CommonP E 230PHED 2910CommonP E 290PHED 2910CommonP E 290PHED 2910CommonP E 290PHED 2410CommonP E 290PHED 2410CommonP E 2910HED 2130UniqueP E P 185HLED 1310UniqueP E P 208HLED 2140UniqueP E 100HLED 2320UniqueP E 100HLED 2320UniqueP E 2010HLED 2320UniqueP E 2010HLED 2320UniqueP E 2010HLED 2410UniqueP E 2010HLED 2410Unique</td><td></td><td></td><td></td></tr> <tr><td>P E 159PHED 1710CommonP E 166PHED 1290CommonP E 173PHED 1830CommonP E 173PHED 1830CommonP E 199PHED 2510CommonP E 202PHED 2510CommonP E 203PHED 2510CommonP E 204PHED 250CommonP E 205PHED 1620CommonP E 206PHED 2800CommonP E 212PHED 2800CommonP E 215PHED 2800CommonP E 216PHED 2620CommonP E 217PHED 2620CommonP E 218PHED 2620CommonP E 219PHED 2620CommonP E 216PHED 2620CommonP E 217PHED 2620CommonP E 218PHED 2110CommonP E 229PHED 2300CommonP E 230PHED 2301CommonP E 230PHED 2910CommonP E 299PHED 2410CommonP E 290PHED 2410CommonP E 291PHED 2410CommonP E 292PHED 2410CommonP E 293PHED 2410CommonP E 294PHED 2410CommonP E 295PHED 2410CommonP E 208HLED 1310UniqueP E 208HLED 2140UniqueP E 209HLED 2410UniqueP E 208HLED 2400UniqueP E 208HLED 2400UniqueP E 208HLED 2400UniqueP</td><td></td><td>PHED 1230</td><td>Common</td></tr> <tr><td>P E 166PHED 1290CommonP E 173PHED 1830CommonP E 199PHED 1410CommonP E 202PHED 2510CommonP E 203PHED 2510CommonP E 204PHED 2510CommonP E 205PHED 1620CommonP E 206PHED 2620CommonP E 212PHED 2280CommonP E 213PHED 2620CommonP E 214PHED 2620CommonP E 215PHED 2620CommonP E 216PHED 2620CommonP E 217PHED 2620CommonP E 218PHED 2620CommonP E 229PHED 2620CommonP E 228PHED 2620CommonP E 229PHED 2620CommonP E 229PHED 2670CommonP E 229PHED 2100CommonP E 230PHED 2300CommonP E 230PHED 2996CommonP E 299PHED 2410CommonP E 299PHED 2410CommonP E 298HLED 1310UniqueP E P 100HLED 2311UniqueP E 110HLED 2311UniqueP E 110HLED 2311UniqueP E 110PHED 2410UniqueP E 110HLED 2311UniqueP E 110HLED 2311Unique<t< td=""><td></td><td></td><td>Common</td></t<></td></tr> <tr><td>P E 173P HED 1830CommonP E 199P HED 1410CommonP E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 2620CommonP E 206P HED 2280CommonP E 213P HED 2280CommonP E 215P HED 2620CommonP E 216P HED 2620CommonP E 217P HED 2280CommonP E 218P HED 2620CommonP E 219P HED 2620CommonP E 216P HED 2620CommonP E 228P HED 2110CommonP E 229P HED 2100CommonP E 230P HED 2400CommonP E 230P HED 2910CommonP E 299P HED 2410CommonP E 299HED 2410UniqueP E P 185H LED 3110UniqueP E P 208H LED 2140UniqueP E 210H LED 22140UniqueP E 210H LED 22140UniqueP H L P HIL-PHILOSOPHYVV</td><td></td><td></td><td>Common</td></tr> <tr><td>P E 199P HED 1410CommonP E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 1620CommonP E 206P HED 2620CommonP E 212P HED 2280CommonP E 213P HED 2620CommonP E 216P HED 2620CommonP E 215P HED 2620CommonP E 216P HED 2620CommonP E 217P HED 2620CommonP E 218P HED 2620CommonP E 228P HED 2620CommonP E 229P HED 2600CommonP E 230P HED 2910CommonP E 230P HED 2910CommonP E 299P HED 2910CommonP E 299HED 2110UniqueP E 9185H EED 1310UniqueP E 9206HED 2140UniqueP E 9208H ED 2140UniqueP E 9209H ED 2310UniqueP E 9200H ED 2310UniqueP E 9200H ED 2310UniqueP E 9200P E 9200UniqueP E 9200P E 9200UniqueP E 9200P E 9200UniqueP E 9200P E 9200P E 9200P E 9200P E 9200<td></td><td></td><td>Common</td></td></tr> <tr><td>P E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 1620CommonP E 206P HED 2620CommonP E 212P HED 2280CommonP E 213P HED 2620CommonP E 216P HED 2620CommonP E 217P HED 2620CommonP E 218P HED 2620CommonP E 228P HED 2620CommonP E 229P HED 2620CommonP E 230P HED 2620CommonP E 230P HED 2910CommonP E 230P HED 2910CommonP E 270P HED 2910CommonP E 270P HED 29410CommonP E 299P HED 2910CommonP E 290H LED 1310UniqueP E P 185H LED 1340UniqueP E P 200H LED 2321UniqueP E P 210H LED 2321UniqueP HIL-PHILOSOPHYHIL PHILEV</td><td></td><td></td><td>Common</td></tr> <tr><td>P E 203 P HED 2510 Common P E 204 P HED 2510 Common P E 205 P HED 1620 Common P E 206 P HED 2620 Common P E 212 P HED 2280 Common P E 213 P HED 2280 Common P E 215 P HED 2620 Common P E 216 P HED 2620 Common P E 217 P HED 2620 Common P E 218 P HED 2620 Common P E 219 P HED 2620 Common P E 228 P HED 2620 Common P E 228 P HED 2110 Common P E 229 P HED 2670 Common P E 230 P HED 2320 Common P E 263 P HED 2910 Common P E 270 P HED 2410 Common P E 299 P HED 2410 Common P E P 185 HLED 1310 Unique P E P 208 HLED 240 Unique P E P 210 HLED 2321 Unique</td><td></td><td></td><td>Common</td></tr> <tr><td>PE 204 PHED 2510 Common PE 205 PHED 1620 Common PE 206 PHED 2620 Common PE 212 PHED 2280 Common PE 213 PHED 2280 Common PE 214 PHED 2280 Common PE 215 PHED 2620 Common PE 216 PHED 2620 Common PE 228 PHED 2110 Common PE 229 PHED 2670 Common PE 230 PHED 2300 Common PE 263 PHED 2910 Common PE 299 PHED 2410 Common PE 299 PHED 2410 Common PE P 185 HLED 1310 Unique PE P 208 HLED 231 Unique PE P 210 HLED 232 Unique</td><td></td><td></td><td>Common</td></tr> <tr><td>PE 205 PHED 1620 Common PE 206 PHED 2620 Common PE 212 PHED 2280 Common PE 213 PHED 2280 Common PE 215 PHED 2620 Common PE 216 PHED 2620 Common PE 228 PHED 2110 Common PE 229 PHED 2670 Common PE 230 PHED 2300 Common PE 2430 PHED 2900 Common PE 2530 PHED 2910 Common PE 263 PHED 2910 Common PE 270 PHED 2996 Common PE 299 PHED 2100 Common PE P1 185 HLED 1310 Unique PE P 208 HLED 2321 Unique PE P 210 HLED 2321 Unique</td><td></td><td></td><td>Common</td></tr> <tr><td>P E 206PHED 2620CommonP E 212PHED 2280CommonP E 213PHED 2620CommonP E 216PHED 2620CommonP E 228PHED 2610CommonP E 229PHED 2670CommonP E 230PHED 2320CommonP E 233PHED 2910CommonP E 299PHED 2910CommonP E 299PHED 2410CommonP E 299PHED 2410CommonP E 291HED 2410CommonP E 293PHED 2410CommonP E 294PHED 2410CommonP E 295HED 2410UniqueP E 185HLED 1310UniqueP E 208HLED 2321UniquePHIL-PHILOSOPHYHLED 2321Unique</td><td></td><td></td><td></td></tr> <tr><td>P E 212P HED 2280CommonP E 213P HED 2280CommonP E 215P HED 2620CommonP E 228P HED 2110CommonP E 229P HED 2670CommonP E 230P HED 2300CommonP E 263P HED 2910CommonP E 270P HED 2990CommonP E 299P HED 2410CommonP E 710HED 1310UniqueP E P 185HLED 1340UniqueP E 720HLED 2321UniqueP E 720HLED 2321UniqueP E 7208HLED 2321UniqueP E 7210HLED 2321UniqueP E 7210HLED 2321UniqueP HIL-PHILOSOPHYUniqueUnique</td><td></td><td></td><td></td></tr> <tr><td>PE213 PHED 280 Common PE215 PHED 2620 Common PE216 PHED 2620 Common PE228 PHED 2110 Common PE229 PHED 2670 Common PE230 PHED 2300 Common PE263 PHED 2910 Common PE270 PHED 2910 Common PE299 PHED 2996 Common PE299 PHED 2410 Common PE2910 PHED 2110 Common PE292 PHED 2996 Common PE293 PHED 2410 Common PE294 PHED 2410 Common PE295 HLED 1310 Unique PE208 HLED 2321 Unique PE210 HLED 2321 Unique</td><td></td><td></td><td></td></tr> <tr><td>PE 215 PHED 2620 Common PE 216 PHED 2620 Common PE 228 PHED 2110 Common PE 229 PHED 2670 Common PE 230 PHED 2320 Common PE 263 PHED 2910 Common PE 270 PHED 2990 Common PE 299 PHED 2410 Common PE P185 HLED 1310 Common PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY Unique PHIL</td><td></td><td></td><td></td></tr> <tr><td>P E 216P HED 2620CommonP E 228P HED 2110CommonP E 229P HED 2670CommonP E 230P HED 2300CommonP E 263P HED 2910CommonP E 270P HED 2990CommonP E 299P HED 2410CommonP E 299P HED 2410CommonP E P 185HLED 1310UniqueP E P 208HLED 2140UniqueP E P 210HLED 2321UniquePHIL-PHILOSOPHY</td><td></td><td></td><td></td></tr> <tr><td>P E 228 PHED 2110 Common P E 229 PHED 2670 Common P E 230 PHED 2320 Common P E 263 PHED 2910 Common P E 270 PHED 2996 Common P E 299 PHED 2410 Common P E P-PHYSICAL EDUCATION V V P E P 185 HLED 1310 Unique P E P 208 HLED 2321 Unique P E P 210 HLED 2321 Unique</td><td></td><td></td><td></td></tr> <tr><td>PE 229 PHED 2670 Common PE 230 PHED 2320 Common PE 263 PHED 2910 Common PE 270 PHED 2996 Common PE 299 PHED 2410 Common PE-PHYSICAL EDUCATION V V PE 185 HLED 1310 Unique PE P 208 HLED 2321 Unique PHELPHILOSOPHY V V</td><td></td><td></td><td></td></tr> <tr><td>P E 230 PHED 2320 Common P E 263 PHED 2910 Common P E 270 PHED 2996 Common P E 299 PHED 2410 Common PE-P-PHYSICAL EDUCATION V V PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique</td><td></td><td></td><td></td></tr> <tr><td>P E 263 PHED 2910 Common P E 270 PHED 2996 Common P E 299 PHED 2410 Common PE-P-PHYSICAL EDUCATION V V PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY V V</td><td></td><td></td><td></td></tr> <tr><td>P E 270 PHED 2996 Common P E 299 PHED 2410 Common PE-P-PHYSICAL EDUCATION Vinique PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY Vinique Vinique</td><td></td><td></td><td></td></tr> <tr><td>P E 299 PHED 2410 Common PE-P-PHYSICAL EDUCATION V PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY V V</td><td></td><td></td><td></td></tr> <tr><td>PE-P-PHYSICAL EDUCATION PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY Unique Unique</td><td></td><td></td><td></td></tr> <tr><td>PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY V V</td><td></td><td>PHED 2410</td><td>Common</td></tr> <tr><td>PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY V V</td><td></td><td></td><td></td></tr> <tr><td>PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY</td><td></td><td></td><td></td></tr> <tr><td>PHIL-PHILOSOPHY</td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td>HLED 2321</td><td>Unique</td></tr> <tr><td>PHIL 100G PHIL 1145G Unique</td><td></td><td></td><td></td></tr> <tr><td></td><td>PHIL 100G</td><td>PHIL 1145G</td><td>Unique</td></tr>			Common	P E 147P HED 1230CommonP E 148P HED 1230CommonP E 150P HED 1230CommonP E 154P HED 1710CommonP E 159P HED 1710CommonP E 166P HED 170CommonP E 173P HED 1830CommonP E 199P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 2620CommonP E 206P HED 280CommonP E 213P HED 280CommonP E 213P HED 280CommonP E 215P HED 280CommonP E 216P HED 280CommonP E 217P HED 280CommonP E 218P HED 280CommonP E 229P HED 280CommonP E 229P HED 280CommonP E 230P HED 280CommonP E 230P HED 280CommonP E 290P HED 280CommonP E 291P HED 280CommonP E 292P HED 280CommonP E 293P HED 280CommonP E 294P HED 280CommonP E 295P HED 280CommonP E 296P HED 280CommonP E 297P HED 280CommonP E 298HED 299CommonP E 299P HED 280CommonP E 298HED 280CommonP E 298HED 280CommonP E 298HED 280Common <t< td=""><td></td><td>PHED 2310</td><td>Common</td></t<>		PHED 2310	Common	P E 148P HED 1230CommonP E 150P HED 1230CommonP E 154P HED 1710CommonP E 159P HED 1710CommonP E 166P HED 1990CommonP E 173P HED 1300CommonP E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 250CommonP E 206P HED 280CommonP E 213P HED 280CommonP E 215P HED 280CommonP E 216P HED 280CommonP E 217P HED 280CommonP E 218P HED 280CommonP E 219P HED 280CommonP E 216P HED 280CommonP E 217P HED 280CommonP E 218P HED 280CommonP E 229P HED 280CommonP E 230P HED 280CommonP E 230P HED 280CommonP E 230P HED 2910CommonP E 230P HED 2910CommonP E 230P HED 2910CommonP E 299P HED 2110CommonP E 298HED 2110Common <tr< td=""><td></td><td>HLED 1150</td><td>Common</td></tr<>		HLED 1150	Common	PE 150PHED 1230CommonPE 154PHED 1710CommonPE 159PHED 1710CommonPE 166PHED 1290CommonPE 173PHED 1830CommonPE 173PHED 1840CommonPE 202PHED 2510CommonPE 203PHED 2510CommonPE 204PHED 250CommonPE 205PHED 1620CommonPE 210PHED 280CommonPE 212PHED 280CommonPE 213PHED 280CommonPE 214PHED 280CommonPE 215PHED 280CommonPE 226PHED 280CommonPE 215PHED 280CommonPE 228PHED 280CommonPE 229PHED 280CommonPE 229PHED 280CommonPE 229PHED 280CommonPE 229PHED 280CommonPE 290PHED 290CommonPE 291PHED 290CommonPE 292PHED 290CommonPE 293PHED 2910CommonPE 294PHED 2910CommonPE 295PHED 2910CommonPE 296HED 2910CommonPE 297PHED 2910CommonPE 298HED 2910CommonPE 298HED 2910CommonPE 299HED 2910CommonPE 290HED 2140UniquePE 2010HED 2140UniquePE 2010HED 2140Unique <td< td=""><td></td><td></td><td>Common</td></td<>			Common	P E 154PHED 1710CommonP E 159PHED 1700CommonP E 166PHED 1290CommonP E 173PHED 1830CommonP E 199PHED 1410CommonP E 202PHED 2510CommonP E 203PHED 2510CommonP E 204PHED 2510CommonP E 205PHED 1620CommonP E 206PHED 2800CommonP E 212PHED 2800CommonP E 213PHED 2800CommonP E 215PHED 2800CommonP E 216PHED 2800CommonP E 217PHED 2800CommonP E 218PHED 2800CommonP E 228PHED 2800CommonP E 230PHED 2910CommonP E 290PHED 2910CommonP E 290PHED 2910CommonP E 290PHED 2410CommonP E 290PHED 2410CommonP E 2910HED 2130UniqueP E P 185HLED 1310UniqueP E P 208HLED 2140UniqueP E 100HLED 2320UniqueP E 100HLED 2320UniqueP E 2010HLED 2320UniqueP E 2010HLED 2320UniqueP E 2010HLED 2410UniqueP E 2010HLED 2410Unique				P E 159PHED 1710CommonP E 166PHED 1290CommonP E 173PHED 1830CommonP E 173PHED 1830CommonP E 199PHED 2510CommonP E 202PHED 2510CommonP E 203PHED 2510CommonP E 204PHED 250CommonP E 205PHED 1620CommonP E 206PHED 2800CommonP E 212PHED 2800CommonP E 215PHED 2800CommonP E 216PHED 2620CommonP E 217PHED 2620CommonP E 218PHED 2620CommonP E 219PHED 2620CommonP E 216PHED 2620CommonP E 217PHED 2620CommonP E 218PHED 2110CommonP E 229PHED 2300CommonP E 230PHED 2301CommonP E 230PHED 2910CommonP E 299PHED 2410CommonP E 290PHED 2410CommonP E 291PHED 2410CommonP E 292PHED 2410CommonP E 293PHED 2410CommonP E 294PHED 2410CommonP E 295PHED 2410CommonP E 208HLED 1310UniqueP E 208HLED 2140UniqueP E 209HLED 2410UniqueP E 208HLED 2400UniqueP E 208HLED 2400UniqueP E 208HLED 2400UniqueP		PHED 1230	Common	P E 166PHED 1290CommonP E 173PHED 1830CommonP E 199PHED 1410CommonP E 202PHED 2510CommonP E 203PHED 2510CommonP E 204PHED 2510CommonP E 205PHED 1620CommonP E 206PHED 2620CommonP E 212PHED 2280CommonP E 213PHED 2620CommonP E 214PHED 2620CommonP E 215PHED 2620CommonP E 216PHED 2620CommonP E 217PHED 2620CommonP E 218PHED 2620CommonP E 229PHED 2620CommonP E 228PHED 2620CommonP E 229PHED 2620CommonP E 229PHED 2670CommonP E 229PHED 2100CommonP E 230PHED 2300CommonP E 230PHED 2996CommonP E 299PHED 2410CommonP E 299PHED 2410CommonP E 298HLED 1310UniqueP E P 100HLED 2311UniqueP E 110HLED 2311UniqueP E 110HLED 2311UniqueP E 110PHED 2410UniqueP E 110HLED 2311UniqueP E 110HLED 2311Unique <t< td=""><td></td><td></td><td>Common</td></t<>			Common	P E 173P HED 1830CommonP E 199P HED 1410CommonP E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 2620CommonP E 206P HED 2280CommonP E 213P HED 2280CommonP E 215P HED 2620CommonP E 216P HED 2620CommonP E 217P HED 2280CommonP E 218P HED 2620CommonP E 219P HED 2620CommonP E 216P HED 2620CommonP E 228P HED 2110CommonP E 229P HED 2100CommonP E 230P HED 2400CommonP E 230P HED 2910CommonP E 299P HED 2410CommonP E 299HED 2410UniqueP E P 185H LED 3110UniqueP E P 208H LED 2140UniqueP E 210H LED 22140UniqueP E 210H LED 22140UniqueP H L P HIL-PHILOSOPHYVV			Common	P E 199P HED 1410CommonP E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 1620CommonP E 206P HED 2620CommonP E 212P HED 2280CommonP E 213P HED 2620CommonP E 216P HED 2620CommonP E 215P HED 2620CommonP E 216P HED 2620CommonP E 217P HED 2620CommonP E 218P HED 2620CommonP E 228P HED 2620CommonP E 229P HED 2600CommonP E 230P HED 2910CommonP E 230P HED 2910CommonP E 299P HED 2910CommonP E 299HED 2110UniqueP E 9185H EED 1310UniqueP E 9206HED 2140UniqueP E 9208H ED 2140UniqueP E 9209H ED 2310UniqueP E 9200H ED 2310UniqueP E 9200H ED 2310UniqueP E 9200P E 9200UniqueP E 9200P E 9200UniqueP E 9200P E 9200UniqueP E 9200P E 9200P E 9200P E 9200P E 9200 <td></td> <td></td> <td>Common</td>			Common	P E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 1620CommonP E 206P HED 2620CommonP E 212P HED 2280CommonP E 213P HED 2620CommonP E 216P HED 2620CommonP E 217P HED 2620CommonP E 218P HED 2620CommonP E 228P HED 2620CommonP E 229P HED 2620CommonP E 230P HED 2620CommonP E 230P HED 2910CommonP E 230P HED 2910CommonP E 270P HED 2910CommonP E 270P HED 29410CommonP E 299P HED 2910CommonP E 290H LED 1310UniqueP E P 185H LED 1340UniqueP E P 200H LED 2321UniqueP E P 210H LED 2321UniqueP HIL-PHILOSOPHYHIL PHILEV			Common	P E 203 P HED 2510 Common P E 204 P HED 2510 Common P E 205 P HED 1620 Common P E 206 P HED 2620 Common P E 212 P HED 2280 Common P E 213 P HED 2280 Common P E 215 P HED 2620 Common P E 216 P HED 2620 Common P E 217 P HED 2620 Common P E 218 P HED 2620 Common P E 219 P HED 2620 Common P E 228 P HED 2620 Common P E 228 P HED 2110 Common P E 229 P HED 2670 Common P E 230 P HED 2320 Common P E 263 P HED 2910 Common P E 270 P HED 2410 Common P E 299 P HED 2410 Common P E P 185 HLED 1310 Unique P E P 208 HLED 240 Unique P E P 210 HLED 2321 Unique			Common	PE 204 PHED 2510 Common PE 205 PHED 1620 Common PE 206 PHED 2620 Common PE 212 PHED 2280 Common PE 213 PHED 2280 Common PE 214 PHED 2280 Common PE 215 PHED 2620 Common PE 216 PHED 2620 Common PE 228 PHED 2110 Common PE 229 PHED 2670 Common PE 230 PHED 2300 Common PE 263 PHED 2910 Common PE 299 PHED 2410 Common PE 299 PHED 2410 Common PE P 185 HLED 1310 Unique PE P 208 HLED 231 Unique PE P 210 HLED 232 Unique			Common	PE 205 PHED 1620 Common PE 206 PHED 2620 Common PE 212 PHED 2280 Common PE 213 PHED 2280 Common PE 215 PHED 2620 Common PE 216 PHED 2620 Common PE 228 PHED 2110 Common PE 229 PHED 2670 Common PE 230 PHED 2300 Common PE 2430 PHED 2900 Common PE 2530 PHED 2910 Common PE 263 PHED 2910 Common PE 270 PHED 2996 Common PE 299 PHED 2100 Common PE P1 185 HLED 1310 Unique PE P 208 HLED 2321 Unique PE P 210 HLED 2321 Unique			Common	P E 206PHED 2620CommonP E 212PHED 2280CommonP E 213PHED 2620CommonP E 216PHED 2620CommonP E 228PHED 2610CommonP E 229PHED 2670CommonP E 230PHED 2320CommonP E 233PHED 2910CommonP E 299PHED 2910CommonP E 299PHED 2410CommonP E 299PHED 2410CommonP E 291HED 2410CommonP E 293PHED 2410CommonP E 294PHED 2410CommonP E 295HED 2410UniqueP E 185HLED 1310UniqueP E 208HLED 2321UniquePHIL-PHILOSOPHYHLED 2321Unique				P E 212P HED 2280CommonP E 213P HED 2280CommonP E 215P HED 2620CommonP E 228P HED 2110CommonP E 229P HED 2670CommonP E 230P HED 2300CommonP E 263P HED 2910CommonP E 270P HED 2990CommonP E 299P HED 2410CommonP E 710HED 1310UniqueP E P 185HLED 1340UniqueP E 720HLED 2321UniqueP E 720HLED 2321UniqueP E 7208HLED 2321UniqueP E 7210HLED 2321UniqueP E 7210HLED 2321UniqueP HIL-PHILOSOPHYUniqueUnique				PE213 PHED 280 Common PE215 PHED 2620 Common PE216 PHED 2620 Common PE228 PHED 2110 Common PE229 PHED 2670 Common PE230 PHED 2300 Common PE263 PHED 2910 Common PE270 PHED 2910 Common PE299 PHED 2996 Common PE299 PHED 2410 Common PE2910 PHED 2110 Common PE292 PHED 2996 Common PE293 PHED 2410 Common PE294 PHED 2410 Common PE295 HLED 1310 Unique PE208 HLED 2321 Unique PE210 HLED 2321 Unique				PE 215 PHED 2620 Common PE 216 PHED 2620 Common PE 228 PHED 2110 Common PE 229 PHED 2670 Common PE 230 PHED 2320 Common PE 263 PHED 2910 Common PE 270 PHED 2990 Common PE 299 PHED 2410 Common PE P185 HLED 1310 Common PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY Unique PHIL				P E 216P HED 2620CommonP E 228P HED 2110CommonP E 229P HED 2670CommonP E 230P HED 2300CommonP E 263P HED 2910CommonP E 270P HED 2990CommonP E 299P HED 2410CommonP E 299P HED 2410CommonP E P 185HLED 1310UniqueP E P 208HLED 2140UniqueP E P 210HLED 2321UniquePHIL-PHILOSOPHY				P E 228 PHED 2110 Common P E 229 PHED 2670 Common P E 230 PHED 2320 Common P E 263 PHED 2910 Common P E 270 PHED 2996 Common P E 299 PHED 2410 Common P E P-PHYSICAL EDUCATION V V P E P 185 HLED 1310 Unique P E P 208 HLED 2321 Unique P E P 210 HLED 2321 Unique				PE 229 PHED 2670 Common PE 230 PHED 2320 Common PE 263 PHED 2910 Common PE 270 PHED 2996 Common PE 299 PHED 2410 Common PE-PHYSICAL EDUCATION V V PE 185 HLED 1310 Unique PE P 208 HLED 2321 Unique PHELPHILOSOPHY V V				P E 230 PHED 2320 Common P E 263 PHED 2910 Common P E 270 PHED 2996 Common P E 299 PHED 2410 Common PE-P-PHYSICAL EDUCATION V V PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique				P E 263 PHED 2910 Common P E 270 PHED 2996 Common P E 299 PHED 2410 Common PE-P-PHYSICAL EDUCATION V V PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY V V				P E 270 PHED 2996 Common P E 299 PHED 2410 Common PE-P-PHYSICAL EDUCATION Vinique PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY Vinique Vinique				P E 299 PHED 2410 Common PE-P-PHYSICAL EDUCATION V PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY V V				PE-P-PHYSICAL EDUCATION PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY Unique Unique				PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY V V		PHED 2410	Common	PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY V V				PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY				PHIL-PHILOSOPHY						HLED 2321	Unique	PHIL 100G PHIL 1145G Unique					PHIL 100G	PHIL 1145G	Unique
		Common																																																																																																																													
P E 147P HED 1230CommonP E 148P HED 1230CommonP E 150P HED 1230CommonP E 154P HED 1710CommonP E 159P HED 1710CommonP E 166P HED 170CommonP E 173P HED 1830CommonP E 199P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 2620CommonP E 206P HED 280CommonP E 213P HED 280CommonP E 213P HED 280CommonP E 215P HED 280CommonP E 216P HED 280CommonP E 217P HED 280CommonP E 218P HED 280CommonP E 229P HED 280CommonP E 229P HED 280CommonP E 230P HED 280CommonP E 230P HED 280CommonP E 290P HED 280CommonP E 291P HED 280CommonP E 292P HED 280CommonP E 293P HED 280CommonP E 294P HED 280CommonP E 295P HED 280CommonP E 296P HED 280CommonP E 297P HED 280CommonP E 298HED 299CommonP E 299P HED 280CommonP E 298HED 280CommonP E 298HED 280CommonP E 298HED 280Common <t< td=""><td></td><td>PHED 2310</td><td>Common</td></t<>		PHED 2310	Common																																																																																																																												
P E 148P HED 1230CommonP E 150P HED 1230CommonP E 154P HED 1710CommonP E 159P HED 1710CommonP E 166P HED 1990CommonP E 173P HED 1300CommonP E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 250CommonP E 206P HED 280CommonP E 213P HED 280CommonP E 215P HED 280CommonP E 216P HED 280CommonP E 217P HED 280CommonP E 218P HED 280CommonP E 219P HED 280CommonP E 216P HED 280CommonP E 217P HED 280CommonP E 218P HED 280CommonP E 229P HED 280CommonP E 230P HED 280CommonP E 230P HED 280CommonP E 230P HED 2910CommonP E 230P HED 2910CommonP E 230P HED 2910CommonP E 299P HED 2110CommonP E 298HED 2110Common <tr< td=""><td></td><td>HLED 1150</td><td>Common</td></tr<>		HLED 1150	Common																																																																																																																												
PE 150PHED 1230CommonPE 154PHED 1710CommonPE 159PHED 1710CommonPE 166PHED 1290CommonPE 173PHED 1830CommonPE 173PHED 1840CommonPE 202PHED 2510CommonPE 203PHED 2510CommonPE 204PHED 250CommonPE 205PHED 1620CommonPE 210PHED 280CommonPE 212PHED 280CommonPE 213PHED 280CommonPE 214PHED 280CommonPE 215PHED 280CommonPE 226PHED 280CommonPE 215PHED 280CommonPE 228PHED 280CommonPE 229PHED 280CommonPE 229PHED 280CommonPE 229PHED 280CommonPE 229PHED 280CommonPE 290PHED 290CommonPE 291PHED 290CommonPE 292PHED 290CommonPE 293PHED 2910CommonPE 294PHED 2910CommonPE 295PHED 2910CommonPE 296HED 2910CommonPE 297PHED 2910CommonPE 298HED 2910CommonPE 298HED 2910CommonPE 299HED 2910CommonPE 290HED 2140UniquePE 2010HED 2140UniquePE 2010HED 2140Unique <td< td=""><td></td><td></td><td>Common</td></td<>			Common																																																																																																																												
P E 154PHED 1710CommonP E 159PHED 1700CommonP E 166PHED 1290CommonP E 173PHED 1830CommonP E 199PHED 1410CommonP E 202PHED 2510CommonP E 203PHED 2510CommonP E 204PHED 2510CommonP E 205PHED 1620CommonP E 206PHED 2800CommonP E 212PHED 2800CommonP E 213PHED 2800CommonP E 215PHED 2800CommonP E 216PHED 2800CommonP E 217PHED 2800CommonP E 218PHED 2800CommonP E 228PHED 2800CommonP E 230PHED 2910CommonP E 290PHED 2910CommonP E 290PHED 2910CommonP E 290PHED 2410CommonP E 290PHED 2410CommonP E 2910HED 2130UniqueP E P 185HLED 1310UniqueP E P 208HLED 2140UniqueP E 100HLED 2320UniqueP E 100HLED 2320UniqueP E 2010HLED 2320UniqueP E 2010HLED 2320UniqueP E 2010HLED 2410UniqueP E 2010HLED 2410Unique																																																																																																																															
P E 159PHED 1710CommonP E 166PHED 1290CommonP E 173PHED 1830CommonP E 173PHED 1830CommonP E 199PHED 2510CommonP E 202PHED 2510CommonP E 203PHED 2510CommonP E 204PHED 250CommonP E 205PHED 1620CommonP E 206PHED 2800CommonP E 212PHED 2800CommonP E 215PHED 2800CommonP E 216PHED 2620CommonP E 217PHED 2620CommonP E 218PHED 2620CommonP E 219PHED 2620CommonP E 216PHED 2620CommonP E 217PHED 2620CommonP E 218PHED 2110CommonP E 229PHED 2300CommonP E 230PHED 2301CommonP E 230PHED 2910CommonP E 299PHED 2410CommonP E 290PHED 2410CommonP E 291PHED 2410CommonP E 292PHED 2410CommonP E 293PHED 2410CommonP E 294PHED 2410CommonP E 295PHED 2410CommonP E 208HLED 1310UniqueP E 208HLED 2140UniqueP E 209HLED 2410UniqueP E 208HLED 2400UniqueP E 208HLED 2400UniqueP E 208HLED 2400UniqueP		PHED 1230	Common																																																																																																																												
P E 166PHED 1290CommonP E 173PHED 1830CommonP E 199PHED 1410CommonP E 202PHED 2510CommonP E 203PHED 2510CommonP E 204PHED 2510CommonP E 205PHED 1620CommonP E 206PHED 2620CommonP E 212PHED 2280CommonP E 213PHED 2620CommonP E 214PHED 2620CommonP E 215PHED 2620CommonP E 216PHED 2620CommonP E 217PHED 2620CommonP E 218PHED 2620CommonP E 229PHED 2620CommonP E 228PHED 2620CommonP E 229PHED 2620CommonP E 229PHED 2670CommonP E 229PHED 2100CommonP E 230PHED 2300CommonP E 230PHED 2996CommonP E 299PHED 2410CommonP E 299PHED 2410CommonP E 298HLED 1310UniqueP E P 100HLED 2311UniqueP E 110HLED 2311UniqueP E 110HLED 2311UniqueP E 110PHED 2410UniqueP E 110HLED 2311UniqueP E 110HLED 2311Unique <t< td=""><td></td><td></td><td>Common</td></t<>			Common																																																																																																																												
P E 173P HED 1830CommonP E 199P HED 1410CommonP E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 2620CommonP E 206P HED 2280CommonP E 213P HED 2280CommonP E 215P HED 2620CommonP E 216P HED 2620CommonP E 217P HED 2280CommonP E 218P HED 2620CommonP E 219P HED 2620CommonP E 216P HED 2620CommonP E 228P HED 2110CommonP E 229P HED 2100CommonP E 230P HED 2400CommonP E 230P HED 2910CommonP E 299P HED 2410CommonP E 299HED 2410UniqueP E P 185H LED 3110UniqueP E P 208H LED 2140UniqueP E 210H LED 22140UniqueP E 210H LED 22140UniqueP H L P HIL-PHILOSOPHYVV			Common																																																																																																																												
P E 199P HED 1410CommonP E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 1620CommonP E 206P HED 2620CommonP E 212P HED 2280CommonP E 213P HED 2620CommonP E 216P HED 2620CommonP E 215P HED 2620CommonP E 216P HED 2620CommonP E 217P HED 2620CommonP E 218P HED 2620CommonP E 228P HED 2620CommonP E 229P HED 2600CommonP E 230P HED 2910CommonP E 230P HED 2910CommonP E 299P HED 2910CommonP E 299HED 2110UniqueP E 9185H EED 1310UniqueP E 9206HED 2140UniqueP E 9208H ED 2140UniqueP E 9209H ED 2310UniqueP E 9200H ED 2310UniqueP E 9200H ED 2310UniqueP E 9200P E 9200UniqueP E 9200P E 9200UniqueP E 9200P E 9200UniqueP E 9200P E 9200P E 9200P E 9200P E 9200 <td></td> <td></td> <td>Common</td>			Common																																																																																																																												
P E 202P HED 2510CommonP E 203P HED 2510CommonP E 204P HED 2510CommonP E 205P HED 1620CommonP E 206P HED 2620CommonP E 212P HED 2280CommonP E 213P HED 2620CommonP E 216P HED 2620CommonP E 217P HED 2620CommonP E 218P HED 2620CommonP E 228P HED 2620CommonP E 229P HED 2620CommonP E 230P HED 2620CommonP E 230P HED 2910CommonP E 230P HED 2910CommonP E 270P HED 2910CommonP E 270P HED 29410CommonP E 299P HED 2910CommonP E 290H LED 1310UniqueP E P 185H LED 1340UniqueP E P 200H LED 2321UniqueP E P 210H LED 2321UniqueP HIL-PHILOSOPHYHIL PHILEV			Common																																																																																																																												
P E 203 P HED 2510 Common P E 204 P HED 2510 Common P E 205 P HED 1620 Common P E 206 P HED 2620 Common P E 212 P HED 2280 Common P E 213 P HED 2280 Common P E 215 P HED 2620 Common P E 216 P HED 2620 Common P E 217 P HED 2620 Common P E 218 P HED 2620 Common P E 219 P HED 2620 Common P E 228 P HED 2620 Common P E 228 P HED 2110 Common P E 229 P HED 2670 Common P E 230 P HED 2320 Common P E 263 P HED 2910 Common P E 270 P HED 2410 Common P E 299 P HED 2410 Common P E P 185 HLED 1310 Unique P E P 208 HLED 240 Unique P E P 210 HLED 2321 Unique			Common																																																																																																																												
PE 204 PHED 2510 Common PE 205 PHED 1620 Common PE 206 PHED 2620 Common PE 212 PHED 2280 Common PE 213 PHED 2280 Common PE 214 PHED 2280 Common PE 215 PHED 2620 Common PE 216 PHED 2620 Common PE 228 PHED 2110 Common PE 229 PHED 2670 Common PE 230 PHED 2300 Common PE 263 PHED 2910 Common PE 299 PHED 2410 Common PE 299 PHED 2410 Common PE P 185 HLED 1310 Unique PE P 208 HLED 231 Unique PE P 210 HLED 232 Unique			Common																																																																																																																												
PE 205 PHED 1620 Common PE 206 PHED 2620 Common PE 212 PHED 2280 Common PE 213 PHED 2280 Common PE 215 PHED 2620 Common PE 216 PHED 2620 Common PE 228 PHED 2110 Common PE 229 PHED 2670 Common PE 230 PHED 2300 Common PE 2430 PHED 2900 Common PE 2530 PHED 2910 Common PE 263 PHED 2910 Common PE 270 PHED 2996 Common PE 299 PHED 2100 Common PE P1 185 HLED 1310 Unique PE P 208 HLED 2321 Unique PE P 210 HLED 2321 Unique			Common																																																																																																																												
P E 206PHED 2620CommonP E 212PHED 2280CommonP E 213PHED 2620CommonP E 216PHED 2620CommonP E 228PHED 2610CommonP E 229PHED 2670CommonP E 230PHED 2320CommonP E 233PHED 2910CommonP E 299PHED 2910CommonP E 299PHED 2410CommonP E 299PHED 2410CommonP E 291HED 2410CommonP E 293PHED 2410CommonP E 294PHED 2410CommonP E 295HED 2410UniqueP E 185HLED 1310UniqueP E 208HLED 2321UniquePHIL-PHILOSOPHYHLED 2321Unique																																																																																																																															
P E 212P HED 2280CommonP E 213P HED 2280CommonP E 215P HED 2620CommonP E 228P HED 2110CommonP E 229P HED 2670CommonP E 230P HED 2300CommonP E 263P HED 2910CommonP E 270P HED 2990CommonP E 299P HED 2410CommonP E 710HED 1310UniqueP E P 185HLED 1340UniqueP E 720HLED 2321UniqueP E 720HLED 2321UniqueP E 7208HLED 2321UniqueP E 7210HLED 2321UniqueP E 7210HLED 2321UniqueP HIL-PHILOSOPHYUniqueUnique																																																																																																																															
PE213 PHED 280 Common PE215 PHED 2620 Common PE216 PHED 2620 Common PE228 PHED 2110 Common PE229 PHED 2670 Common PE230 PHED 2300 Common PE263 PHED 2910 Common PE270 PHED 2910 Common PE299 PHED 2996 Common PE299 PHED 2410 Common PE2910 PHED 2110 Common PE292 PHED 2996 Common PE293 PHED 2410 Common PE294 PHED 2410 Common PE295 HLED 1310 Unique PE208 HLED 2321 Unique PE210 HLED 2321 Unique																																																																																																																															
PE 215 PHED 2620 Common PE 216 PHED 2620 Common PE 228 PHED 2110 Common PE 229 PHED 2670 Common PE 230 PHED 2320 Common PE 263 PHED 2910 Common PE 270 PHED 2990 Common PE 299 PHED 2410 Common PE P185 HLED 1310 Common PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY Unique PHIL																																																																																																																															
P E 216P HED 2620CommonP E 228P HED 2110CommonP E 229P HED 2670CommonP E 230P HED 2300CommonP E 263P HED 2910CommonP E 270P HED 2990CommonP E 299P HED 2410CommonP E 299P HED 2410CommonP E P 185HLED 1310UniqueP E P 208HLED 2140UniqueP E P 210HLED 2321UniquePHIL-PHILOSOPHY																																																																																																																															
P E 228 PHED 2110 Common P E 229 PHED 2670 Common P E 230 PHED 2320 Common P E 263 PHED 2910 Common P E 270 PHED 2996 Common P E 299 PHED 2410 Common P E P-PHYSICAL EDUCATION V V P E P 185 HLED 1310 Unique P E P 208 HLED 2321 Unique P E P 210 HLED 2321 Unique																																																																																																																															
PE 229 PHED 2670 Common PE 230 PHED 2320 Common PE 263 PHED 2910 Common PE 270 PHED 2996 Common PE 299 PHED 2410 Common PE-PHYSICAL EDUCATION V V PE 185 HLED 1310 Unique PE P 208 HLED 2321 Unique PHELPHILOSOPHY V V																																																																																																																															
P E 230 PHED 2320 Common P E 263 PHED 2910 Common P E 270 PHED 2996 Common P E 299 PHED 2410 Common PE-P-PHYSICAL EDUCATION V V PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique																																																																																																																															
P E 263 PHED 2910 Common P E 270 PHED 2996 Common P E 299 PHED 2410 Common PE-P-PHYSICAL EDUCATION V V PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY V V																																																																																																																															
P E 270 PHED 2996 Common P E 299 PHED 2410 Common PE-P-PHYSICAL EDUCATION Vinique PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY Vinique Vinique																																																																																																																															
P E 299 PHED 2410 Common PE-P-PHYSICAL EDUCATION V PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY V V																																																																																																																															
PE-P-PHYSICAL EDUCATION PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY Unique Unique																																																																																																																															
PE P 185 HLED 1310 Unique PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY V V		PHED 2410	Common																																																																																																																												
PE P 208 HLED 2140 Unique PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY V V																																																																																																																															
PE P 210 HLED 2321 Unique PHIL-PHILOSOPHY																																																																																																																															
PHIL-PHILOSOPHY																																																																																																																															
		HLED 2321	Unique																																																																																																																												
PHIL 100G PHIL 1145G Unique																																																																																																																															
	PHIL 100G	PHIL 1145G	Unique																																																																																																																												

PHIL 101G	PHIL 1115G	Common
PHIL 124G	PHIL 1155G	Unique
PHIL 136G	PHIL 1140G	Unique
PHIL 201G	PHIL 2230G	Common
PHIL 211G	PHIL 1120G	Common
PHIL 223G	PHIL 2110G	Common
PHLS-PUBLIC HEALTH SCIENCES		
PHLS 100	PHLS 1111	Unique
PHLS 150G	PHLS 1110G	Common
PHLS 275	PHLS 2110	Common
PHLS 295	PHLS 2120	Common
PHYS-PHYSICS		
PHYS 110G	PHYS 1115G	Common
PHYS 120G	PHYS 1125	Common
PHYS 150	PHYS 1111	Unique
PHYS 203	PHYS 2111	Unique
PHYS 204	PHYS 2141	Unique
PHYS 205	PHYS 1311	Common
PHYS 206	PHYS 1321	Common
PHYS 210	PHYS 1112	Unique
PHYS 211G	PHYS 1230G	Common
PHYS 211GL	PHYS 1230G PHYS 1230L	Common
PHYS 212G	PHYS 1240G	
		Common
PHYS 212GL	PHYS 1240L	Common
PHYS 213	PHYS 2110	Unique
PHYS 213 L	PHYS 2110L	Unique
PHYS 214	PHYS 2140	Unique
PHYS 214 L	PHYS 2140L	Unique
PHYS 215G	PHYS 1310G	Common
PHYS 215GL	PHYS 1310L	Common
PHYS 216G	PHYS 1320G	Common
PHYS 216GL	PHYS 1320L	Common
PHYS 217	PHYS 2120	Unique
PHYS 217 L	PHYS 2120L	Unique
PHYS 218	PHYS 2121	Unique
PHYS 221G	PHYS 2230G	Unique
PHYS 221GL	PHYS 2230L	Unique
PHYS 222G	PHYS 2240G	Unique
PHYS 222GL	PHYS 2240L	Unique
PHYS 223	PHYS 1231	Common
PHYS 224	PHYS 1241	Common
PHYS 280	PHYS 2997	Unique
PHYS 290	PHYS 2996	Unique
PORT-PORTUGUESE		
PORT 213	PORT 1110	Common
PORT 214	PORT 1120	Common
PSY-PSYCHOLOGY		
PSY 201G	PSYC 1110G	Common
PSY 211	PSYC 1120	Unique
PSY 266	PSYC 2221	Unique
PSY 274	PSYC 2311	Unique
PSY 290	PSYC 2230	Common

RGSC-RANGE SCIENCE		
RGSC 150	RGSC 1110	Unique
RGSC 250	RGSC 2996	Unique
RGSC 294	RGSC 2110	Common
S WK-SOCIAL WORK	1000 2110	Common
S WK 221G	SOWK 2110G	Common
S WK 251	SOWK 2111	Unique
S WK 253	HMSV 2110	Common
SOC-SOCIOLOGY	110/3 0 2110	Common
SOC 101G	SOCI 1110G	Common
SOC 201G	SOCI 2310G	Common
SOC 258	SOCI 2240	Common
SOC 258	SOCI 2240	Unique
SOC 262		
	SOCI 2230	Common
SOC 269	SOCI 2230	Common
SOC 273	SOCI 2220	Common
SOIL-SOIL	0011 0000	
SOIL 200	SOIL 2996	Unique
SOIL 252	SOIL 2110	Common
SOIL 252 L	SOIL 2110L	Common
SP M-SPORTS MEDICINE		
SP M 190	SPMD 1110	Unique
SP M 191	SPMD 1120	Unique
SP M 200	SPMD 2110	Unique
SP M 223	SPMD 2120	Unique
SP M 250	SPMD 2130	Unique
SP M 271	SPMD 1310	Unique
SP M 271 L	SPMD 1310L	Unique
SP M 272	SPMD 1190	Unique
SP M 273	SPMD 2990	Unique
SP M 290	SPMD 2210	Unique
SPAN-SPANISH		
SPAN 111	SPAN 1110	Common
SPAN 112	SPAN 1120	Common
SPAN 113	SPAN 1210	Common
SPAN 211	SPAN 2110	Common
SPAN 212	SPAN 2120	Common
SPAN 213	SPAN 1220	Common
SPAN 214	SPAN 2210	Common
SPED-SPECIAL EDUCATION		
SPED 201	SPED 2996	Unique
SPED 202	SPED 2130	Unique
SPED 210	SPED 2120	Unique
STAT-STATISTICS		
STAT 251G	MATH 1350G	Common
STAT 271G	MATH 2350G	Common
THTR-THEATRE		
THTR 101G	THEA 1110G	Common
THTR 105	THEA 1210	Common
THTR 110	THEA 1221	Unique
THTR 120	THEA 1222	Unique
THTR 130	THEA 1223	Unique

THTR 141	THEA 2310	Common
THTR 141 L	THEA 2310L	Unique
THTR 142	THEA 1310	Common
THTR 142 L	THEA 1310L	Unique
THTR 149	THEA 1415	Unique
THTR 200	THEA 2993	Unique
THTR 210	THEA 2221	Unique
THTR 220	THEA 2421	Unique
THTR 222	THEA 2996	Unique
THTR 249	THEA 2415	Unique
THTR 250	THEA 2340	Unique
UNIV-UNIVERSITY STUDIES		
UNIV 101	FYEX 1160	Unique
UNIV 110	FYEX 1131	Unique
UNIV 112	FYEX 1132	Unique
UNIV 113	FYEX 1134	Unique
UNIV 114	FYEX 1117	Unique
UNIV 115	FYEX 1115	Unique
UNIV 116	FYEX 1995	Unique
UNIV 117	FYEX 1150	Unique
UNIV 118	FYEX 1141	Unique
UNIV 150	FYEX 1112	Unique
UNIV 161	FYEX 1170	Unique
W S-WOMEN'S STUDIES		
W S 201G	GNDR 2110G	Common
W S 202G	GNDR 2120G	Unique

DEGREES & CERTIFICATES

Academic Programs

The following degrees and certificates are offered at NMSU Alamogordo.

Note: The degree plans in this catalog are effective Summer, 2019 and are in effect through the spring semester 2025.

Associate Degree Programs

- Allied Health (p. 66)
- Arts (p. 70)
- Criminal Justice (p. 81)
- Early Childhood (p. 83)
- Education (p. 85)
 - Education Elementary Concentration (p. 85)
 - Education Secondary Math Concentration (p. 87)
 - Education Secondary Science Concentration (p. 89)
- Fine Arts (p. 95)
- General Engineering (p. 97)
- Prebusiness (p. 106)
- Science (p. 110)
- Social Work (p. 112)

Associate of Applied Science Degree Programs

- Automotive and Hybrid Technology (p. 72)
- Business Management (p. 74)
 - Business Management Accounting/Bookkeeping Concentration (p. 75)
 - Business Management Administrative Support Concentration (p. 76)
 - Business Management General Management Concentration (p. 77)
- Computer Science (p. 80)
- Engineering Technology (p. 92)
 - Engineering Technology Biomedical Equipment Concentration (p. 94)
 - Engineering Technology Electronics Concentration (p. 93)
- Emergency Medical Services, Intermediate (p. 90)
- Graphic Design (p. 99)
- Information Technology (p. 100)
- Medical Assistant (p. 69)
- Paralegal Studies (p. 103)
- Renewable Energy Systems Technology (p. 107)

Certificate Programs

- Accounting/Bookkeeping (p. 74)
- Advanced Renewable Energy Systems (p. 107)
- Automotive Diagnostic Specialist (p. 72)
- Engine Performance and Transmission Specialist (p. 74)
- General Management (p. 74)
- Art & Graphic Design (p. 99)
- · Leadership Skills (p. 74)
- · Legal Assistant (p. 103)
- Phlebotomist Technician (p. 66)

- Photographic Technology (p. 105)
- Photo Voltaic Entry Level (p. 107)

Online Degrees/Certificates (p. 102) **Allied Health**

The **Associate of Science Degree in Allied Health** (ASAH) follows the New Mexico Nursing Education Consortium (NMNEC) common curriculum for transfer into a 4 year Bachelor of Nursing (BSN) program. The 4 year Bachelor of Nursing through NMSU School of Nursing accepts a cohort of 16 students each Fall semester from the NMSU - Alamogordo campus. Upon successful completion of core degree requirements and either Option 1 (Health Care Fields) or Option 2 (BSN Program) courses, the ASAH degree can be awarded.

Option 1 (Health Care Fields) is designed for students interested in alternative health care career paths in the fields of Nursing Assistant and EKG or Phlebotomy Technician. Option 1 also provides associate degree completion for individuals awaiting acceptance into a BSN level program and for registered nurses or individuals with non-nursing degrees who may need to complete required courses before applying to a master program in nursing.

Option 2 (BSN Program) is designed for ASAH students who have applied and been accepted into the NMSU Las Cruces BSN program delivered at the Alamogordo campus. Check with the Allied Health Department about requirements and the application process for the NMSU BSN program.

The **Associate of Applied Science Medical Assistant** (AASMA) degree is designed to prepare the graduate for an entry-level position in the workforce as a Medical Assistant in healthcare organizations. The Commission on Accreditation of Allied Health Education Programs (CAAHEP) define the profession of Medical Assistants as "multi-skilled health professionals specifically educated to work in ambulatory settings performing administrative and clinical duties. The practice of medical assisting directly influences the public's health and well-being, and requires mastery of a complex body of knowledge and specialized skills requiring both formal education and practical experience that serve as standards for entry into the profession" (CAAHEP, 2015). Successful completion of the AASMA degree will prepare the graduate to be workforce ready for employment in various healthcare areas such as physician offices, hospitals, and emergent/urgent care centers.

The **San Juan College Surgical Technology program** is a collaborative effort to offer the Surgical Technologist program of study to students in Southern New Mexico. Prerequisites can be completed at NMSU-A. After admission to the SJC Surgical Technology program, surgical technologist courses will be completed online at Gerald Champion Regional Medical Center and at our employer partners who have agreed to provide their healthcare organizations as a clinical site.

Allied Health - Associate of Science (p. 67)

Medical Assistant - Associate of Applied Science (p. 69)

Phlebotomist Technician - Certificate of Achievement (p. 70)

San Juan Surgical Technology Program (p. 70)

Career & Technology Division

New Mexico State University Alamogordo 2400 N. Scenic Drive

Alamogordo, NM 88310

Division Head: Cathy Aguilar-Morgan

Administrative Assistant: Michelle Nelson

Office Location: Science CenterMap Icon

Phone: 575.439.3761

eMail: ctNMSUA@nmsu.edu (<u>ctnmsua@nmsu.edu</u>)

Website:

http://nmsua.edu/career-and-technology/

Allied Health - Associate of Science

The Associate of Science Degree in Allied Health (ASAH) follows the New Mexico Nursing Education Consortium (NMNEC) common curriculum for transfer into a 4 year Bachelor of Nursing (BSN) program. The 4 year Bachelor of Nursing through NMSU School of Nursing accepts a cohort of 16 students each Fall semester from the NMSU - Alamogordo campus. Upon successful completion of core degree requirements and either Option 1 (Health Care Fields) or Option 2 (BSN Program) courses, the ASAH degree can be awarded.

Option 1 (Health Care Fields) is designed for students interested in alternative health care career paths in the fields of Nursing Assistant and EKG or Phlebotomy Technician. Option 1 also provides associate degree completion for individuals awaiting acceptance into a BSN level program and for registered nurses or individuals with non-nursing degrees who may need to complete required courses before applying to a master program in nursing.

Option 2 (BSN Program) is designed for ASAH students who have applied and been accepted into the NMSU Las Cruces BSN program delivered at the Alamogordo campus. Check with the Allied Health Department about requirements and the application process for the NMSU BSN program.

A grade of C or better is required in all "G" courses.

Total Credits Required for Degree: 61 credits

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61-65 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education	Requirements	
Area I: Communicati	ons	
English Composition	- Level 1	
ENGL 111G	Rhetoric and Composition	4
English Composition	- Level 2	
Choose one from th	e following:	3

ENGL 203G	Business and Professional	
	Communication	
ENGL 211G	Writing in the Humanities and Social Sciences	
ENGL 218G	Technical and Scientific Communication	
Oral Communication	1	
COMM 265G	Principles of Human Communication	3
or COMM 253G	Public Speaking	
Area II: Mathematics	5	
MATH 121G	College Algebra ¹	3
Areas III/IV: Laborat	ory Science and Social/Behavioral Sciences	11
BIOL 211G & 211GL	Cellular and Organismal Biology and Cellular and Organismal Biology Laboratory	
CHEM 110G	Principles and Applications of Chemistry	
C EP 110G	Human Growth and Behavior	
Area V: Humanities		
Select one course f	rom Area V: Humanities ²	3
Area VI: Creative/Fir	ne Arts	
Select one course f	rom Area VI: Creative/Fine Arts ²	3
General Education E	lective	
PSY 201G	Introduction to Psychology	3
Core Degree Requir	rements	
BIOL 221 & 221 L	Introductory Microbiology and Introductory Microbiology Laboratory	4
BIOL 225	Human Anatomy and Physiology I	4
BIOL 226	Human Anatomy and Physiology II	4
STAT 251G	Statistics for Business and the Behavioral Sciences	3
Option Area		
Select Option 1 (He Program)	ealth Care Fields) or Option 2 (BSN	13-17
Total Credits		61-65
1		

¹ MATH 121G College Algebra is required for the degree but students may need to take prerequisites to enter the course.

² See the General Education Section (p. 20) of the catalog for a full list of courses.

Option 1 - Health Care Fields

Prefix	Title	Credits
HNDS 251	Human Nutrition	3
NA 101	Nursing Assistant Theory and Lab	6
Select one from the	following:	4-6
NA 110	Electrocardiogram Technician Basic	
NA 115	Phlebotomist Technician	
Total Credits		13-15

Option 2 - BSN Program

Prefix	Title	Credits
HNDS 251	Human Nutrition	3
NURS 293	Introduction to Nursing Concepts ¹	3
NURS 294	Principles of Nursing Practice ¹	4

NURS 362	Evidence Based Practice ¹	3
Select one from the	following:	4-6
NURS 328	Human Pathophysiology Foundation for Nursing	
BIOL 262 & BIOL 263	Human Pathophysiology I and Pathophysiology II	
Total Credits		17-19

Total Credits

1 Open only to students admitted to the Nursing major.

A Suggested Plan of Study - Allied Health, **Option 1 (Health Care Fields)**

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

Course	Title	Credits
First Year		
Fall		
BIOL 211G & 211GL	Cellular and Organismal Biology and Cellular and Organismal Biology Laboratory	4
CHEM 110G	Principles and Applications of Chemistry	4
ENGL 111G	Rhetoric and Composition	4
PSY 201G	Introduction to Psychology	3
Select one course f	rom Area V: Humanities ¹	3
	Credits	18
Spring		
BIOL 225	Human Anatomy and Physiology I	4
C EP 110G	Human Growth and Behavior	3
ENGL 211G or ENGL 203G or ENGL 218G	Writing in the Humanities and Social Sciences or Business and Professional Communication or Technical and Scientific Communication	3
HNDS 251	Human Nutrition	3
MATH 121G	College Algebra	3
	Credits	16
Second Year Fall		
BIOL 221 & 221 L	Introductory Microbiology and Introductory Microbiology Laboratory	4
BIOL 226	Human Anatomy and Physiology II	4
COMM 265G or COMM 253G	Principles of Human Communication or Public Speaking	3
STAT 251G	Statistics for Business and the Behavioral Sciences	3
Spring	Credits	14
	rom Area VI: Creative/Fine Arts ¹	3
NA 101	Nursing Assistant Theory and Lab	6

NA 110	Electrocardiogram Technician Basic	4-6
or NA 115	or Phlebotomist Technician	
	Credits	13
	Total Credits	61

1 See the General Education Section (p. 20) of the catalog for a full list of courses.

A Suggested Plan of Study - Allied Health, **Option 2 (BSN Program)**

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

Course First Year	Title	Credits
Fall BIOL 211G & 211GL	Cellular and Organismal Biology and Cellular and Organismal Biology Laboratory	4
CHEM 110G	Principles and Applications of Chemistry	4
ENGL 111G	Rhetoric and Composition	4
PSY 201G	Introduction to Psychology	3
Select one course f	rom Area V: Humanities ¹	3
Spring	Credits	18
BIOL 225	Human Anatomy and Physiology I	4
C EP 110G	Human Growth and Behavior	3
ENGL 211G or ENGL 203G or ENGL 218G	Writing in the Humanities and Social Sciences or Business and Professional Communication or Technical and Scientific Communication	3
HNDS 251	Human Nutrition	3
MATH 121G	College Algebra	3
Second Year Fall	Credits	16
BIOL 221 & 221 L	Introductory Microbiology and Introductory Microbiology Laboratory	4
BIOL 226	Human Anatomy and Physiology II	4
COMM 265G or COMM 253G	Principles of Human Communication or Public Speaking	3
STAT 251G	Statistics for Business and the Behavioral Sciences	3
	Credits	14
Spring		
Select one course f	rom Area VI: Creative/Fine Arts ¹	3
NURS 293	Introduction to Nursing Concepts	3
NURS 294	Principles of Nursing Practice	4
NURS 362	Evidence Based Practice	3
Select one from the following:		

NURS 328	Human Pathophysiology Foundation for Nursing	
BIOL 262 & BIOL 263	Human Pathophysiology I and Pathophysiology II	
	Credits	17
	Total Credits	65

¹ See the General Education Section (p. 20) of the catalog for a full list of courses.

Medical Assistant - Associate of Applied Science

A grade of C- or better is required in all courses.

Total Credits Required for Degree: 61

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits	
General Education Requirements			
Select one cours a total of 12-14 c	12-14		
students do not	uires courses from Areas I, II, III, and IV; need to take an additional courses to meet cation Requirements.		
Area I: Comm	nunications		
ENGL 111G	Rhetoric and Composition (Core Requirement)		
Area II: Math	ematics		
MATH 121G	College Algebra (Core Requirement) ³		
Area III: Labo	ratory Science		
CHEM 110G	Principles and Applications of Chemistry (Core Requirement)		
or CHEM 1	11G General Chemistry I		
Area IV: Socia	al/Behavioral Sciences		
C EP 110G	Human Growth and Behavior (Core Requirement)		
Area V: Huma	anities		
Area VI: Crea	tive/Fine Arts		
General Educatio	on Elective		
PHLS 150G	Personal Health and Wellness	3	
Core Degree Re	Core Degree Requirements		
AHS 115	Dietary Guidelines & Meal Planning	4	
AHS 190	Clinical Skills & Concepts for Medical Assisting I	6	
AHS 280	Medical Office Administration & Management	4	
AHS 290	Clincial Skills & Concepts for Medical Assisting II	6	
BIOL 225	Human Anatomy and Physiology I	4	
BIOL 226	Human Anatomy and Physiology II	4	

NURS 120	Introduction to Pharmacology	3
NURS 140	Pathophysiology for Allied Health Professionals	3
NA 110	Electrocardiogram Technician Basic	4
NA 115	Phlebotomist Technician	6
Total Credits		61

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 (p. 20) of the catalog for a full list of courses.
- ³ MATH 121G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 121G first.

A Suggested Plan of Study - Medical Assistant

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

Course First Year Fall	Title	Credits
AHS 280	Medical Office Administration & Management	4
CHEM 110G or CHEM 111G	Principles and Applications of Chemistry or General Chemistry I	4
ENGL 111G	Rhetoric and Composition	4
MATH 121G	College Algebra ¹	3
	Credits	15
Spring		
BIOL 225	Human Anatomy and Physiology I	4
NA 115	Phlebotomist Technician	6
NURS 120	Introduction to Pharmacology	3
NURS 140	Pathophysiology for Allied Health Professionals	3
	Credits	16
Second Year		
Fall		
AHS 190	Clinical Skills & Concepts for Medical Assisting I	6
NA 110	Electrocardiogram Technician Basic	4
BIOL 226	Human Anatomy and Physiology II	4
Spring	Credits	14
AHS 115	Dietary Guidelines & Meal Planning	4
AHS 290	Clincial Skills & Concepts for Medical Assisting II	6
C EP 110G	Human Growth and Behavior	3
PHLS 150G	Personal Health and Wellness	3
	Credits	16
	Total Credits	61

¹ MATH 121G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 121G first.

Phlebotomist Technician - Certificate of Achievement

A Certificate of Achievement is a program of study less than 16 credits and is **not** eligible for Federal Financial aid. The certificate provides employment related and/or career enhancing skills necessary to succeed in a job or a chosen field of study. The Phlebotomist Technician Certificate of Achievement requires successful completion of NA 115 Phlebotomist Technician (6 credits).

San Juan College Surgical Technology Program

The San Juan College Surgical Technology program is a collaborative effort to offer the Surgical Technologist program of study to students in Southern New Mexico. Prerequisites can be completed at NMSU-A. After admission to the SJC Surgical Technology program, surgical technologist courses will be completed online at Gerald Champion Regional Medical Center and at our employer partners who have agreed to provide their healthcare organizations as a clinical site.

For more information contact:

Becky Ross New Mexico State University Alamogordo, Director of Allied Health 575-439-3878 bross@nmsu.edu

Maxine Chapman San Juan College Surgical Technology Director 505-566-3492 chapmanm@sanjuancollege.edu

Coursework to be completed at NMSU Alamogordo:

Prefix	Title	Credits
AHS 120	Medical Terminology	3
BIOL 101G	Human Biology	3
BIOL 101GL	Human Biology Laboratory	1
BIOL 221	Introductory Microbiology	3
BIOL 221 L	Introductory Microbiology Laboratory	1
BIOL 225	Human Anatomy and Physiology I	4
BIOL 226	Human Anatomy and Physiology II	4
CHEM 110G	Principles and Applications of Chemistry	4
COMM 253G	Public Speaking	3
or COMM 265G	Principles of Human Communication	
ENGL 111G	Rhetoric and Composition	4
ENGL 211G	Writing in the Humanities and Social Sciences	3
or ENGL 218G	Technical and Scientific Communication	
OEEM 101	CPR for the Health Care Professional	1
PSY 201G	Introduction to Psychology	3
Choose one from th	ne following:	3
MATH 120	Intermediate Algebra	
MATH 121G	College Algebra	

AHS 116	Math for Health Occupations
---------	-----------------------------

Total Credits

A Suggested Plan of Study - NMSU- A Course Work for AAS in Surgical Technology from San Juan College

Additional classes may be needed based on placement test results and course prerequisites.

Course First Year	Title	Credits
Spring BIOL 101G	Humon Dielogy	4
& 101GL	Human Biology and Human Biology Laboratory	4
CHEM 110G	Principles and Applications of Chemistry	4
COMM 253G or COMM 265G	Public Speaking or Principles of Human Communication	3
ENGL 111G	Rhetoric and Composition	4
	Credits	15
Second Year		
Fall		
BIOL 221 & 221 L	Introductory Microbiology and Introductory Microbiology Laboratory	4
BIOL 225	Human Anatomy and Physiology I	4
ENGL 211G or ENGL 218G	Writing in the Humanities and Social Sciences or Technical and Scientific Communication	3
PSY 201G	Introduction to Psychology	3
Spring	Credits	14
AHS 120	Medical Terminology	3
BIOL 226	Human Anatomy and Physiology II	4
OEEM 101	CPR for the Health Care Professional	1
Choose one from the following:		3
MATH 120	Intermediate Algebra	
MATH 121G	College Algebra	
AHS 116	Math for Health Occupations	
	Credits	11
	Total Credits	40

Arts

The Associate of Arts degree represents the completion of the first two years of most bachelor's degree programs in the College of Arts and Sciences at New Mexico State University. Among the degrees that the Associate of Arts prepares the student for are: Anthropology, Communication Studies, English, History, Languages, Math, Music, Philosophy, Psychology, Sociology, Theater, and Women Studies.

In addition, the New Mexico Common Core requirements, which is the heart of the Associate of Arts degree, is required for all bachelor's degrees at New Mexico State University and other public universities and colleges in the state.

40

The degree provides students with a strong foundation in quantitative reasoning, oral and written communication, lab science, humanities and the arts, and the social and behavioral sciences. Two semesters of a second language are also highly recommended. With that strong foundation, students are well-prepared to transfer to a four-year college.

Arts - Associate of Arts (p. 71)

Arts and Science Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Dr. David C. MacWilliams

Administrative Assistant: Theresa Chavez

Office Location: Pro-Tech 122C.

Phone: 575.439.3670

eMail: asNMSUA@nmsu.edu (<u>asnmsua@nmsu.edu</u>)

Website: http://nmsua.edu/arts-and-sciences/

Arts - Associate of Arts

Since approximately half of the requirements for the Associate of Arts are met with elective courses, it is recommended that students plan these electives to meet other requirements for their bachelor's degree, such as the second language requirement or specific requirements within the major.

A grade of C- or better is required in each course that fulfills the General Education Requirements.

Total Credits Required for Degree: 60

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education I	Requirements	
Area I: Communicati	ons	
English Composition	- Level 1	
ENGL 111G	Rhetoric and Composition	4
English Composition - Level 2		
Choose one from th	e following:	3
ENGL 203G	Business and Professional Communication	
ENGL 211G	Writing in the Humanities and Social Sciences	
ENGL 218G	Technical and Scientific Communication	

Oral Communication		
COMM 253G	Public Speaking	3
or COMM 265G	Principles of Human Communication	
Area II: Mathematics		
Select one course f	rom Area II: Mathematics ^{1, 2, 3}	3-4
Areas III/IV: Laborate	ory Science and Social/Behavioral Sciences	10-11
Select one cours credits) ¹	e from Area III: Laboratory Science (4	
Select one cours (3 credits) ¹	e from Area IV: Social/Behavioral Sciences	
Select one cours credits) ¹	e from either Area III or Area IV. (3-4	
Area V: Humanities		
Select one course from Area V: Humanities ¹		
Area VI: Creative/Fine Arts		
Select one course from Area VI: Creative/Fine Arts ¹		
General Education Elective		
Select one course from any General Education area. 1		3-4
Core Degree Requir	ements	
COLL 101	College/Life Success	1
C S 110	Computer Literacy	3
Electives to bring total credits to 60. ⁵		22-24
Recommended Second Language Elective		
Select any 111-112 Second Language sequence offered at NMSU campuses. ⁴		
Total Credits		60

- ¹ See the General Education Section (p. 20) of the catalog for a full list of courses.
- ² Student's subsequent transfer degree major should guide the selection of the math course.
- ³ A Mathematics course is required for the degree but students may need to take prerequisites first.
- ⁴ See your advisor for exact number of second language credits your selected major may require. Almost all College of Arts and Sciences majors required at least two semesters of a language; some require four semesters. New Mexico State University recommends that students take their language requirements as soon as possible and in sequence. For detailed language requirements, see your advisor or the College of Arts and Sciences section of the NMSU catalog.
- ⁵ Elective credit may vary based on General Education course selection, second language requirements, prerequisites, dual credit, AP credit, double majors and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

A Suggested Plan of Study - ARTS

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

Course First Year	Title	Credits
Fall		
COLL 101	College/Life Success	1
C S 110	Computer Literacy	3
ENGL 111G	Rhetoric and Composition	4
Area V: Humanities		3
Recommended Sec	ond Language Elective ²	4
a :	Credits	15
Spring		
COMM 253G or COMM 265G	Public Speaking or Principles of Human Communication	3
ENGL 203G or ENGL 211G or ENGL 218G	Business and Professional Communication or Writing in the Humanities and Social Sciences	3
	or Technical and Scientific Communication	
Area II: Mathematic	3	
Area IV: Social/Beha	avioral Science Course ¹	3
Recommended Sec	ond Language Elective ²	4
	Credits	16
Second Year		
Fall	_	
Area III: Laboratory	-	4
Area VI: Creative/Fi	ne Arts Course ¹	3
Elective ³		3
Elective ³		3
Elective ³		3
	Credits	16
Spring		
	Elective (choose from any area)	3-4
Either an Area III: Labortory Science or Area IV: Social/ Behavioral Sciences Course ¹		3-4
Elective ³		3
Elective ³		3
	Credits	13
	Total Credits	60

¹ See the General Education Section (p. 20) of the catalog for a full list of courses.

² See your advisor for exact number of second language credits your selected major may require. Almost all College of Arts and Sciences majors required at least two semesters of a language; some require four semesters. New Mexico State University recommends that students take their language requirements as soon as possible and in sequence. For detailed language requirements, see your advisor or the College of Arts and Sciences section of the NMSU catalog. ³ Elective credit may vary based on General Education course selection, second language requirements, prerequisites, dual credit, AP credit, double majors and/or minor 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.

Automotive and Hybrid Technology

The Automotive and Hybrid Technology program is designed for students who intend to enter the automotive workforce, establish a commercial business in the automotive field, and/or to prepare for the Automotive Service Excellence (ASE) Certification.

Automotive and Hybrid Technology - Associate of Applied Science (p. 72)

Automotive Diagnostic Specialist - Certificate (p. 73)

Engine Performance and Transmission Specialist - Certificate (p. 74)

Career & Technology Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Cathy Aguilar-Morgan

Administrative Assistant: Michelle Nelson

Office Location: Science Center

Phone: 575.439.3761

eMail:

ctNMSUA@nmsu.edu (ctnmsua@nmsu.edu)

Website:

http://nmsua.edu/career-and-technology/

Automotive and Hybrid Technology -Associate of Applied Science

A grade of C- or better is required in all courses.

Total Credits Required for Degree: 63

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 63 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Educ	ation Requirements	
Select one co a total of 12-1	urse from four of the following six content areas f 4 credits. ^{1, 2}	for 12-14

must select two co	s courses from Areas I and II; students urses from the remaining areas to ducation requirements.	
Area I: Communi	cations	
COMM 265G	Principles of Human Communication (Core Requirement)	
or COMM 253	GPublic Speaking	
Area II: Mathema		
MATH 121G	College Algebra (Core Requirement) ³	
or MATH 2100	G Mathematics Appreciation	
Area III: Laborato	bry Science	
Area IV: Social/B	ehavioral Sciences	
Area V: Humaniti	es	
Area VI: Creative	/Fine Arts	
General Education E		
Select one course f	rom any General Education area. ²	3-4
Core Degree Requir	ements	
AUTO 113	Automotive Electricity and Electronics PT I	4
AUTO 114	Automotive Electricity and Electronics PT II	4
AUTO 115	Automotive Engine Repair	5
AUTO 122	Automotive Brakes	4
AUTO 124	Automotive Heating and Air Conditioning	4
AUTO 129	Automotive Steering and Suspension	4
AUTO 201	Engine Performance I	4
AUTO 203	Engine Performance II	4
AUTO 205	Manual Drive Train and Axles	4
AUTO 206	Automatic Transmissions	5
AUTO 208	Introduction to Alternative Fueled Vehicles	3
or AUTO 209	Hybrid Vehicle Service Techniques	
OETS 120	Business Fundamentals	3
Total Credits		63

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 (p. 20) of the catalog for a full list of courses.

³ MATH 121G College Algebra or MATH 210G Mathematics Appreciation is required for the degree but students may need to take prerequisites to enter the course.

A Suggested Plan of Study - Automotive and Hybrid Technology

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

Course First Year	Title	Credits
Fall		
AUTO 113	Automotive Electricity and Electronics PT I	4

AUTO 114	Automotive Electricity and Electronics PT	4
AUTO 115	Automotive Engine Repair	5
MATH 121G or MATH 210G	College Algebra or Mathematics Appreciation	3
	Credits	16
Spring		
AUTO 122	Automotive Brakes	4
AUTO 124	Automotive Heating and Air Conditioning	4
AUTO 129	Automotive Steering and Suspension	4
OETS 120	Business Fundamentals	3
	Credits	15
Second Year		
Fall		
AUTO 201	Engine Performance I	4
AUTO 203	Engine Performance II	4
AUTO 208 or AUTO 209	Introduction to Alternative Fueled Vehicles	3
	or Hybrid Vehicle Service Techniques	
Select one course f chosen) ¹	rom Area III, IV, V, or VI (an area not already	3-4
Select one course f	rom any General Education area. ¹	3-4
	Credits	17
Spring		
AUTO 205	Manual Drive Train and Axles	4
AUTO 206	Automatic Transmissions	5
COMM 265G or COMM 253G	Principles of Human Communication or Public Speaking	3
Select one course f chosen) ¹	rom Area III, IV, V, or VI (an area not already	3-4
	Credits	15
	Total Credits	63
1	Education Section (p. 20) of the catalog for a	

See the General Education Section (p. 20) of the catalog for a full list of courses.

Automotive Diagnostic Specialist -Certificate

Designed for students who intend to become efficient in the advanced diagnosis of automotive systems to include electrical, engine, drivability, and vehicle computer network control systems.

Gainful Employment Disclosure: At public and private not-for-profit institutions, gainful employment programs are Title IV-eligible certificate programs. Effective July 1, 2011, the U.S. Department of Education requires schools with Gainful Employment programs to disclose certain information about these programs. This information can be found at http://nmsua.edu/gainful-employment-disclosures/.

A grade of C- or better is required in all courses.

Total Credits Required for Certificate: 25

4	Prefix	Title	Credits
T	AUTO 113	Automotive Electricity and Electronics PT	4
		1	

AUTO 114	Automotive Electricity and Electronics PT II	4
AUTO 115	Automotive Engine Repair	5
AUTO 122	Automotive Brakes	4
AUTO 124	Automotive Heating and Air Conditioning	4
AUTO 129	Automotive Steering and Suspension	4
Total Credits		25

Total Credits

A Suggested Plan of Study - Automotive **Diagnostic Specialist Certificate**

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

Course First Year Fall	Title	Credits
AUTO 113	Automotive Electricity and Electronics PT	4
AUTO 114	Automotive Electricity and Electronics PT II ¹	4
AUTO 115	Automotive Engine Repair	5
	Credits	13
Spring		
AUTO 122	Automotive Brakes	4
AUTO 124	Automotive Heating and Air Conditioning	4
AUTO 129	Automotive Steering and Suspension	4
	Credits	12
	Total Credits	25

1 Check for course prerequisites.

Engine Performance and Transmission Specialist - Certificate

Designed for students who intend to become efficient in the maintenance and repair associated with the several critical aspects of the automotive industry.

Gainful Employment Disclosure: At public and private not-for-profit institutions, gainful employment programs are Title IV-eligible certificate programs. Effective July 1, 2011, the U.S. Department of Education requires schools with Gainful Employment programs to disclose certain information about these programs. This information can be found at http://nmsua.edu/gainful-employment-disclosures/.

A grade of C- or better is required in all courses.

Total Credits Required for Certificate: 20

Prefix	Title	Credits
AUTO 201	Engine Performance I	4
AUTO 203	Engine Performance II	4
AUTO 205	Manual Drive Train and Axles	4
AUTO 206	Automatic Transmissions	5
AUTO 208	Introduction to Alternative Fueled Vehicles ¹	3

or AUTO 209	Hybrid Vehicle Service Techniques
0.7.0.0 200	

Total Credits

Check for course prerequisites.

A Suggested Plan of Study - Engine **Performance and Transmission Specialist** Certificate

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

Course First Year	Title	Credits
Fall		
AUTO 201	Engine Performance I	4
AUTO 203	Engine Performance II	4
AUTO 208 or AUTO 209	Introduction to Alternative Fueled Vehicles ¹	3
	or Hybrid Vehicle Service Techniques	
Spring	Credits	11
AUTO 205	Manual Drive Train and Axles	4
AUTO 206	Automatic Transmissions	5
	Credits	9
	Total Credits	20

Check for course prerequisites.

Business Management

The Business Management program is designed to prepare students for entry-level supervisory or management positions or entrepreneurship opportunities. A broad-based business foundation in accounting/ bookkeeping and general management along with practical application, technology and general education courses, prepares students for a wide range of careers.

Business Management - Associate of Applied Science, Accounting/ Bookkeeping Concentration (p. 75)

Business Management - Associate of Applied Science, General Management Concentration (p. 77)

Business Management - Associate of Applied Science, Administrative Support Concentration (p. 76)

Accounting/Bookkeeping - Certificate (p. 78)

General Management - Certificate (p. 78)

Leadership Skills - Certificate (p. 79)

Career & Technology Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head:

20

Administrative Assistant: **Michelle Nelson**

Office Location: Science Center

Phone: 575.439.3761

eMail: ctNMSUA@nmsu.edu (ctnmsua@nmsu.edu)

Website: http://nmsua.edu/career-and-technology/

Business Management - Associate of Applied Science, Accounting/ **Bookkeeping Concentration**

A grade of C- or better required in all courses.

Total Credits Required for Degree: 60

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education F	Requirements	
Select one course from four of the following six content areas for a total of 12-14 credits. ^{1, 2}		
must select two oth	s courses from Areas I and IV; students er courses from the remaining areas to ducation requirements.	
Area I: Communi	cations	
ENGL 111G	Rhetoric and Composition (Core Requirement)	
Area II: Mathema	tics	
Area III: Laborato	ory Science	
Area IV: Social/B	ehavioral Sciences	
Choose one from the following (Core Requirement):		
ECON 201G	Introduction to Economics	
ECON 251G	Principles of Macroeconomics	
ECON 252G	Principles of Microeconomics	
Area V: Humaniti	es	
Area VI: Creative	/Fine arts	
General Education El	ective	
ENGL 203G	Business and Professional Communication	3
Core Degree Requirements		
BCIS 110	Fundamentals of Information Literacy and Systems	3
BMGT 205	Customer Service in Business	3
BMGT 216	Business Math	3

BMGT 240	Human Relations	3
BOT 213	Word Processing I	3
BUSA 111	Introduction to Business	3
MGT 201	Introduction to Management	3
0ECS 215	Spreadsheet Applications	3
Accounting/Boo	okkeeping Concentration Courses	
ACCT 221	Principles of Accounting I (Financial)	3
ACCT 222	Principles of Accounting II (Managerial)	3
BMGT 208	Business Ethics	3
BLAW 230	Business Law	3
BMGT 221	Internship I	2
BOT 140	Payroll Accounting	3
BOT 205	Accounting Software I	3
Total Credits		60

Total Credits

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 (p. 20) of the catalog for a full list of courses.

A Suggested Plan of Study - Business Management, Accounting/Bookkeeping Concentration

Course First Year	Title	Credits
Fall		
BCIS 110	Fundamentals of Information Literacy and Systems	3
ENGL 111G	Rhetoric and Composition	4
Choose one from th	e following:	3
ECON 201G	Introduction to Economics	
ECON 251G	Principles of Macroeconomics	
ECON 252G	Principles of Microeconomics	
MGT 201	Introduction to Management	3
Select one course f chosen) ¹	rom Area II, III, V, or VI (an area not already	3-4
	Credits	16
Spring		
ACCT 221	Principles of Accounting I (Financial)	3
BOT 213	Word Processing I	3
BMGT 216	Business Math	3
BUSA 111	Introduction to Business	3
ENGL 203G	Business and Professional	3
	Communication	
	Credits	15
Second Year		
Fall		
ACCT 222	Principles of Accounting II (Managerial)	3
BMGT 205	Customer Service in Business	3

BMGT 208	Business Ethics	3
BOT 205	Accounting Software I	3
Select one cour chosen) ¹	se from Area II, III, V, or VI (an area not already	3-4
	Credits	15
Spring		
BLAW 230	Business Law	3
BMGT 221	Internship I	2
BMGT 240	Human Relations	3
BOT 140	Payroll Accounting	3
OECS 215	Spreadsheet Applications	3
	Credits	14
	Total Credits	60

1 See the General Education Section (p. 20) of the catalog for a full list of courses.

Business Management - Associate of Applied Science, Administrative **Support Concentration**

A grade of C- or better required in all courses.

Total Credits Required for Degree: 60

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education Requirements		
Select one course f a total of 12-14 cre	from four of the following six content areas for dits. ^{1, 2}	12-14
must select two o	es courses from Areas I and IV; students ther courses from the remaining areas to Education requirements.	
Area I: Commu	nications	
ENGL 111G	Rhetoric and Composition (Core Requirement)	
Area II: Mathem	natics	
Area III: Labora	tory Science	
Area IV: Social/Behavioral Sciences		
Choose one fro	m the following (Core Requirement):	
ECON 201G	Introduction to Economics	
ECON 251G	Principles of Macroeconomics	
ECON 252G	Principles of Microeconomics	
Area V: Humanities		
Area VI: Creative/Fine Arts		
General Education	Elective	
ENGL 203G	Business and Professional Communication	3
Core Degree Requ	irements	

BCIS 110	Fundamentals of Information Literacy and Systems	3
BMGT 205	Customer Service in Business	3
BMGT 216	Business Math	3
BMGT 240	Human Relations	3
BOT 213	Word Processing I	3
BUSA 111	Introduction to Business	3
MGT 201	Introduction to Management	3
OECS 215	Spreadsheet Applications	3
Administrative Su	pport Concentration Courses	
ACCT 200	A Survey of Accounting	3
BOT 101	Keyboarding Basics	3
BOT 105	Business English I	3
BOT 110	Records Management	3
BOT 202	Keyboarding Document Production	3
BOT 220	Internship in Business Office Technology	2
OECS 280	Desktop Publishing I	3
Total Credits		60

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 (p. 20) of the catalog for a full list of courses.

A Suggested Plan of Study - Business Management, Administrative Support Concentration

Course	Title	Credits
First Year		
Fall		
BOT 101	Keyboarding Basics	3
BOT 105	Business English I	3
BCIS 110	Fundamentals of Information Literacy and Systems	3
ENGL 111G	Rhetoric and Composition	4
MGT 201	Introduction to Management	3
	Credits	16
Spring		
ACCT 200	A Survey of Accounting	3
BMGT 216	Business Math	3
BOT 213	Word Processing I	3
BUSA 111	Introduction to Business	3
ENGL 203G	Business and Professional Communication	3
	Credits	15
Second Year		
Fall		
BMGT 205	Customer Service in Business	3
BOT 202	Keyboarding Document Production	3

Choose one from the following:		3
ECON 201G	Introduction to Economics	
ECON 251G	Principles of Macroeconomics	
ECON 252G	Principles of Microeconomics	
Select one cours chosen) ¹	e from Area II, III, V, or VI (an area not already	3-4
Select one cours chosen) ¹	e from Area II, III, V, or VI (an area not already	3-4
	Credits	15
Spring		
Spring BMGT 240	Human Relations	3
	Human Relations Records Management	3
BMGT 240		
BMGT 240 BOT 110	Records Management	3
BMGT 240 BOT 110 OECS 215	Records Management Spreadsheet Applications	3
BMGT 240 BOT 110 OECS 215 BOT 220	Records Management Spreadsheet Applications Internship in Business Office Technology	3 3 2

¹ See the General Education Section (p. 20) of the catalog for a full list of courses.

Business Management - Associate of Applied Science, General Management Concentration

A grade of C- or better required in all courses.

Total Credits Required for Degree: 60

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education F	Requirements	
Select one course fro a total of 12-14 credi	om four of the following six content areas for ts. ^{1, 2}	12-14
must select two oth	s courses from Areas I and IV; students er courses from the remaining areas to ducation requirements.	
Area I: Communi	cations	
ENGL 111G	Rhetoric and Composition (Core Requirement)	
Area II: Mathema	tics	
Area III: Laborato	bry Science	
Area IV: Social/B	ehavioral Sciences	
Choose one from	the following (Core Requirement):	
ECON 201G	Introduction to Economics	
ECON 251G	Principles of Macroeconomics	
ECON 252G	Principles of Microeconomics	
Area V: Humaniti	es	
Area VI: Creative	/Fine Arts	

ENGL 203G **Business and Professional** 3 Communication **Core Degree Requirements BCIS 110** Fundamentals of Information Literacy 3 and Systems **BMGT 205 Customer Service in Business** 3 **BMGT 216 Business Math** 3 **BMGT 240** Human Relations 3 3 BOT 213 Word Processing I **BUSA 111** Introduction to Business 3 MGT 201 3 Introduction to Management **OECS 215** Spreadsheet Applications 3 **General Management Concentration Courses** ACCT 221 Principles of Accounting I (Financial) 3 3 **BLAW 230 Business Law** 2 **BMGT 221** Internship I 3 **BMGT 275** Entrepreneur I **BMGT 280** Introduction to Human Resources 3 **FIN 206** Introduction to Finance 3 **MKTG 203** Introduction to Marketing 3 **Total Credits** 60

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 (p. 20) of the catalog for a full list of courses.

A Suggested Plan of Study - Business Management, General Management Concentration

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

Course	Title	Credits
First Year		
Fall		
BCIS 110	Fundamentals of Information Literacy and Systems	3
BUSA 111	Introduction to Business	3
Choose one from th	e following:	3
ECON 201G	Introduction to Economics	
ECON 251G	Principles of Macroeconomics	
ECON 252G	Principles of Microeconomics	
ENGL 111G	Rhetoric and Composition	4
MGT 201	Introduction to Management	3
	Credits	16
Spring		
ACCT 221	Principles of Accounting I (Financial)	3
BMGT 216	Business Math	3
BMGT 275	Entrepreneur I	3
BOT 213	Word Processing I	3

General Education Elective

Select one cours chosen) ¹	se from Area II, III, V, or VI (an area not already	3-4
	Credits	15
Second Year		
Fall		
BMGT 205	Customer Service in Business	3
ENGL 203G	Business and Professional Communication	3
FIN 206	Introduction to Finance	3
MKTG 203	Introduction to Marketing	3
Select one cours chosen) ¹	se from Area II, III, V, or VI (an area not already	3-4
	Credits	15
Spring		
BLAW 230	Business Law	3
BMGT 221	Internship I	2
BMGT 240	Human Relations	3
BMGT 280	Introduction to Human Resources	3
OECS 215	Spreadsheet Applications	3
	Credits	14
	Total Credits	60

See the General Education Section (p. 20) of the catalog for a full list of courses.

Accounting/Bookkeeping - Certificate

This certificate prepares students with skills in accounting principles and knowledge, and provides the basic foundations for employment in accounting occupations.

Gainful Employment Disclosure: At public and private not-for-profit institutions, gainful employment programs are Title IV-eligible certificate programs. Effective July 1, 2011, the U.S. Department of Education requires schools with Gainful Employment programs to disclose certain information about these programs. This information can be found at http://nmsua.edu/gainful-employment-disclosures/.

A grade of C- or better is required in all courses.

Total Credits Required for Certificate: 30

Prefix	Title	Credits
ACCT 221	Principles of Accounting I (Financial)	3
ACCT 222	Principles of Accounting II (Managerial)	3
BLAW 230	Business Law	3
BOT 140	Payroll Accounting	3
BOT 205	Accounting Software I	3
BOT 241	Auditing and Business Issues	3
BUSA 111	Introduction to Business	3
C S 110	Computer Literacy	3
or OECS 105	Introduction to Information Technology	
MGT 201	Introduction to Management	3

OECS 215	Spreadsheet Applications	3
Total Credits		30

A Suggested Plan of Study - Accounting/ Bookkeeping Certificate

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

Course	Title	Credits
First Year		
Fall		
ACCT 221	Principles of Accounting I (Financial)	3
BUSA 111	Introduction to Business	3
MGT 201	Introduction to Management	3
BOT 241	Auditing and Business Issues	3
C S 110 or OECS 105	Computer Literacy or Introduction to Information Technology	3
	Credits	15
Spring		
BLAW 230	Business Law	3
BOT 140	Payroll Accounting	3
BOT 205	Accounting Software I	3
0ECS 215	Spreadsheet Applications	3
ACCT 222	Principles of Accounting II (Managerial)	3
	Credits	15
	Total Credits	30

General Management - Certificate

This certificate prepares students with skills in management principles and knowledge, and provides the basic foundations for employment in management occupations.

Gainful Employment Disclosure: At public and private not-for-profit institutions, gainful employment programs are Title IV-eligible certificate programs. Effective July 1, 2011, the U.S. Department of Education requires schools with Gainful Employment programs to disclose certain information about these programs. This information can be found at http://nmsua.edu/gainful-employment-disclosures/.

A grade of C- or better is required in all courses.

Total Credits Required for Certificate: 30

Prefix	Title	Credits
ACCT 221	Principles of Accounting I (Financial)	3
BMGT 240	Human Relations	3
BMGT 275	Entrepreneur I	3
or B A 202	Small Business Enterprise	
BMGT 280	Introduction to Human Resources	3
BUSA 111	Introduction to Business	3
C S 110	Computer Literacy	3
or OECS 105	Introduction to Information Technology	
ECON 251G	Principles of Macroeconomics	3

FIN 206	Introduction to Finance	3
or BMGT 232	Personal Finance	
MGT 201	Introduction to Management	3
0ECS 215	Spreadsheet Applications	3
or OECS 220	Database Application and Design	
Total Credits		30

Total Credits

A Suggested Plan of Study - General **Management Certificate**

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

Course	Title	Credits
First Year		
Fall		
BMGT 275 or B A 202	Entrepreneur I or Small Business Enterprise	3
BMGT 280	Introduction to Human Resources	3
C S 110 or OECS 105	Computer Literacy or Introduction to Information Technology	3
FIN 206 or BMGT 232	Introduction to Finance or Personal Finance	3
MGT 201	Introduction to Management	3
	Credits	15
Spring		
ACCT 221	Principles of Accounting I (Financial)	3
BMGT 240	Human Relations	3
BUSA 111	Introduction to Business	3
ECON 251G	Principles of Macroeconomics	3
OECS 215 or OECS 220	Spreadsheet Applications or Database Application and Design	3
	Credits	15
	Total Credits	30

Leadership Skills - Certificate

The Leadership Skills Certificate prepares students in leadership roles in the workplace or in community organizations.

Gainful Employment Disclosure: At public and private not-for-profit institutions, gainful employment programs are Title IV-eligible certificate programs. Effective July 1, 2011, the U.S. Department of Education requires schools with Gainful Employment programs to disclose certain information about these programs. This information can be found at http://nmsua.edu/gainful-employment-disclosures/.

Total Credits Required for Certificate: 16

Prefix		Title	Credits
ENGL 111	G	Rhetoric and Composition	4
COMM 25	3G	Public Speaking	3
Select on	e from the	following:	3
ECON 2	201G	Introduction to Economics	
GOVT	00G	American National Government	

PSY 201G SOC 101G	Introduction to Psychology Introductory Sociology	
MGT 201	Introductory Sociology	3
BMGT 140	Principles of Supervision I	3
or BMGT 240	Human Relations	
Total Credits		16

Total Credits

A Suggested Plan of Study - Leadership **Skills** Certificate

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

Course	Title	Credits
First Year		
Fall		
BMGT 140 or BMGT 240	Principles of Supervision I or Human Relations	3
COMM 253G	Public Speaking	3
Choose one from t	he following:	3
ECON 201G	Introduction to Economics	
GOVT 100G	American National Government	
PSY 201G	Introduction to Psychology	
SOC 101G	Introductory Sociology	
ENGL 111G	Rhetoric and Composition	4
MGT 201	Introduction to Management	3
	Credits	16
	Total Credits	16

Computer Science

The Associate of Applied Science in Computer Science requires 60 credit hours of study including 29 credit hours of Computer Science. The AAS in CS prepares the student for employment in fields that necessitate critical thinking and computer programming skills. Upon completion, a graduate will be well-qualified for employment in a computer-oriented field. It is possible to transition to the NMSU BA or BS in Computer Science; however, students should review their desired program of study with the Computer Science Subject Matter Mentor.

Computer Science - Associate of Applied Science (p. 80)

Career & Technology Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Cathy Aguilar-Morgan

Administrative Assistant: Michelle Nelson

Office Location: Science Center

Phone:

575.439.3761

eMail:

ctNMSUA@nmsu.edu (ctnmsua@nmsu.edu)

Website:

http://nmsua.edu/career-and-technology/

Computer Science - Associate of Applied Science

A grade of C- or better is required in all courses.

Total Credits Required for Degree: 60

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Pı	efix	Title	Credits		
Ge	eneral Education F	Requirements			
	Select one course from four of the following six content areas for a total of 12-14 credits. ^{1, 2}				
m		s courses from Area I, II, and III; students Irse from the remaining areas to complete equirements.			
	Area I: Communio	cations			
	ENGL 111G	Rhetoric and Composition			
	Area II: Mathema	tics			
	MATH 121G	College Algebra ³			
	Area III: Laborato	ry Science			
	Select one course	e from the following:			
	ASTR 110G	Introduction to Astronomy			
	BIOL 111G & 111GL	Natural History of Life and Natural History of Life Laboratory			
	BIOL 211G & 211GL	Cellular and Organismal Biology and Cellular and Organismal Biology Laboratory			
	CHEM 111G	General Chemistry I			
	CHEM 112G	General Chemistry II			
	E S 110G	Introductory Environmental Science			
	GEOG 111G	Geography of the Natural Environment			
	GEOL 111G	Introductory Geology			
	PHYS 211G & 211GL	General Physics I and General Physics I Laboratory			
	PHYS 212G & 212GL	General Physics II and General Physics II Laboratory			
	PHYS 215G & 215GL	Engineering Physics I and Engineering Physics I Laboratory			
	PHYS 216G & 216GL	Engineering Physics II and Engineering Physics II Laboratory			
	Area IV: Social/Be	ehavioral Sciences			
	Area V: Humanitie	es			
	Area VI: Creative/	'Fine Arts			
Ge	eneral Education El	ective			

COMM 253G	Public Speaking	3
or COMM 265G	Principles of Human Communication	
Core Degree Requir	rements	
C S 111	Computer Science Principles	4
C S 117	Introduction to Computer Animation	3
or C S 155	Internet Programming I	
C S 151	C++ Programming	3
C S 153	Python Programming I	3
C S 172	Computer Science I	4
C S 271	Object Oriented Programming	4
C S 272	Introduction to Data Structures	4
C S 273	Machine Programming and Organization	3-4
or C S 209	Special Topics.	
E T 182	Digital Logic	3
ENGL 218G	Technical and Scientific Communication	3
ENGR 100	Introduction to Engineering	3
MATH 142G	Calculus for the Biological and Management Sciences	3
or MATH 190G	Trigonometry and Precalculus	
MATH 191G	Calculus and Analytic Geometry I	3-4
or STAT 251G	Statistics for Business and the Behavioral	Sciences
Total Credits		60

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 (p. 20) of the catalog for a full list of courses.

³ MATH 121G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 121G first.

A Suggested Plan of Study - Computer Science

Course First Year Fall	Title	Credits
C S 111	Computer Science Principles	4
C S 117 or C S 155	Introduction to Computer Animation or Internet Programming I	3
COMM 253G or COMM 265G	Public Speaking or Principles of Human Communication	3
ENGR 100	Introduction to Engineering	3
MATH 121G	College Algebra ¹	3
Spring	Credits	16
C S 172	Computer Science I	4
C S 151	C++ Programming	3
MATH 142G or MATH 190G	Calculus for the Biological and Management Sciences or Trigonometry and Precalculus	3-4

Select one Laborat	ory Science course from degree list ²	4
	Credits	14
Second Year		
Fall		
C S 153	Python Programming I	3
C S 271	Object Oriented Programming	4
E T 182	Digital Logic	3
ENGL 111G	Rhetoric and Composition	4
MATH 191G or STAT 251G	Calculus and Analytic Geometry I or Statistics for Business and the Behavioral Sciences	3-4
	Credits	17
Spring		
C S 272	Introduction to Data Structures	4
C S 273 or C S 209	Machine Programming and Organization or Special Topics.	3-4
ENGL 218G	Technical and Scientific Communication	3
Select one course from Area IV, V, or VI 3		3
	Credits	13

MATH 121G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 121G first.

² Area III: Laboratory Science Courses

- ASTR 110G Introduction to Astronomy
- BIOL 111G Natural History of Life/BIOL 111GL Natural History of Life
 Laboratory
- BIOL 211G Cellular and Organismal Biology/BIOL 211GL Cellular and Organismal Biology Laboratory
- CHEM 111G General Chemistry I
- CHEM 112G General Chemistry II
- E S 110G Introductory Environmental Science
- GEOG 111G Geography of the Natural Environment
- GEOL 111G Introductory Geology
- PHYS 211G General Physics I/PHYS 211GL General Physics I Laboratory
- PHYS 212G General Physics II/PHYS 212GL General Physics II Laboratory
 PHYS 215G Engineering Physics I/PHYS 215GL Engineering Physics I
- Laboratory
- PHYS 216G Engineering Physics II/PHYS 216GL Engineering Physics II Laboratory
- ³ See the General Education Section (p. 20) of the catalog for a full list of courses.

Criminal Justice

The Associate degree in Criminal Justice prepares students for careers in the diverse and challenging field of Criminal Justice including Law Enforcement, Adult Corrections, Juvenile Correction, Adult and Juvenile Probation and Parole, Private Investigations, and Security. In addition to providing the education needed for entry level employment and promotion after gaining employment in the career field, students will develop a strong foundation in logical reasoning, oral and written communication, lab science, humanities and the arts, and the social and behavioral sciences and be well-prepared to pursue the Bachelor Degree in Criminal Justice or another field. Students interested in pursuing a Bachelor Degree at NMSU should see an Academic Advisor regarding the best choices for electives. Criminal Justice - Associate Degree (p. 81)

Arts and Science Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Dr. David C. MacWilliams

Administrative Assistant: Theresa Chavez

Office Location: Pro-Tech 122C.

Phone: 575.439.3670

eMail:

asNMSUA@nmsu.edu (asnmsua@nmsu.edu)

Website:

http://nmsua.edu/arts-and-sciences/

Criminal Justice - Associate Degree

Students wishing to pursue the Bachelor Degree in Criminal Justice at NMSU should see an Academic Advisor regarding the best choices for electives.

A grade of C- or better is required in all Criminal Justice courses and second language courses.

Total Credits Required for Degree: 60

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education	Requirements	
Area I: Communicati	ons	
English Composition	n - Level 1	
ENGL 111G	Rhetoric and Composition	4
English Composition	n - Level 2	
Choose one from th	ne following:	3
ENGL 203G	Business and Professional Communication	
ENGL 211G	Writing in the Humanities and Social Sciences	
ENGL 218G	Technical and Scientific Communication	
Oral Communication	,	
COMM 253G	Public Speaking	3
or COMM 265G	Principles of Human Communication	
Area II: Mathematics	3	
MATH 121G	College Algebra ¹	3
or STAT 251G	Statistics for Business and the Behavioral Se	ciences
Area III/IV: Laborato	ry Science and Social/Behavioral Sciences	10-11

C J 101G	Introduction to Criminal Justice (Core Requirement)	
Select one cour credits) ²	rse from Area III: Laboratory Science (4	
Select one cour credits) ²	rse from either Area III or Area IV (3-4	
Area V: Humanities	3	
Choose one from	the following:	3
PHIL 100G	Philosophy, Law and Ethics (Core Requirement)	
PHIL 201G	Introduction to Philosophy (Core Requirement)	
PHIL 211G	Informal Logic (Core Requirement)	
Area VI: Creative/F	ine Arts	
Select one course	from Area VI: Creative/Fine Arts ²	3
General Education		
Select one course	from any General Education area ²	3-4
Core Degree Requ	irements	
C J 205	Criminal Law	3
C J 210	The American Law Enforcement System	3
C J 230	Introduction to Corrections	3
C J 250	Courts and the Criminal Justice System	3
Second Language	Requirements for Associate Degree ³	6-8
COLL 101	College/Life Success	1
Electives to bring	total credits to 60 ^{4, 5, 6}	3-6
Total Credits		60

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

2 MATH 121G College Algebra or STAT 251G Statistics for Business and the Behavioral Sciences is required for the degree but students may need to take any prerequisites needed to enter MATH 121G or STAT 251G first.

- 3 Completion of a second language through the 112 level or completion of a second language through the 113 or 114 level for Heritage speakers or fulfilling one of the alternatives. See an advisor for specifics. More information is available in the Las Cruces catalog in the Bachelor of Criminal Justice degree section.
- 4 Recommended electives are:
 - C J 221 Fundamentals of Criminal Investigation
 - C J 293 Field Experience in Criminal Justice
 - · PSY 266 Applied Psychology
 - · GOVT 100G American National Government
 - · ENGL 203G Business and Professional Communication
 - · ENGL 211G Writing in the Humanities and Social Sciences
 - · ENGL 218G Technical and Scientific Communication (Choose English class not previously taken).
- 5 A maximum of 3-5 credit hours of applied coursework may be counted toward C J degree. PL S (Paralegal Studies) courses can never replace or substitute for a Criminal Justice (C J) course but may be used as electives within the 3-5 credits applied course limit. Please contact an advisor to determine which courses are considered applied coursework.

6 Elective credit may vary based on General Education course selection, second language requirements, prerequisites, dual credit, A credit, double majors and/or minor coursework. The amount indicated in the requirements list if the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

A Suggested Plan of Study - Criminal Justice

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

Course First Year	Title	Credits
Fall		
C J 101G	Introduction to Criminal Justice	3
COLL 101	College/Life Success	1
COMM 253G or COMM 265G	Public Speaking or Principles of Human Communication	3
ENGL 111G	Rhetoric and Composition	4
MATH 121G or STAT 251G	College Algebra ¹ or Statistics for Business and the Behavioral Sciences	3
	Credits	14
Spring		
C J 210	The American Law Enforcement System	3
Choose one from th	5	3
ENGL 203G	Business and Professional Communication	
ENGL 211G	Writing in the Humanities and Social Sciences	
ENGL 218G	Technical and Scientific Communication	
Choose one from th	ne following:	3
PHIL 100G	Philosophy, Law and Ethics	
PHIL 201G	Introduction to Philosophy	
PHIL 211G	Informal Logic	
Area III: Laboratory		4
General Education	Elective ²	3-4
	Credits	16
Second Year		
Fall		
C J 205	Criminal Law	3
Elective ^{3, 4, 5}	6	3
	1st of 2 consecutive levels) ⁶	4
Area III: Laboratory Science Course ²	Science or Area IV: Social/Behavioral	3-4
	Credits	14
Spring		
C J 230	Introduction to Corrections	3
C J 250	Courts and the Criminal Justice System	3
	2nd of 2 consecutive levels) ⁶	4
Area VI: Creative/Fi	ne Arts Course ²	3
Elective ^{3,4} , ⁵		3
	Credits	16
	Total Credits	60

1 MATH 121G%7C or STAT 251G%7C is required for the degree but students may need to take any prerequisites needed to enter MATH 121G%7CCode or STAT 251G%7CCode first.

- ² See the General Education Section of the catalog for a full list of courses.
- ³ Recommended electives are C J 221%7CCode or C J 293%7CCode or PSY 266%7CCode or GOVT 100G%7CCode or ENGL 203G%7CCode or ENGL 211G %7CCode or ENGL 218G%7CCode (Choose English class not previously taken).
- ⁴ A maximum of 3-5 credit hours of applied coursework may be counted toward C J degree. PL S (Paralegal Studies) courses can never replace or substitute for a Criminal Justice (C J) course but may be used as electives within the 3-5 credits applied course limit. Please contact an advisor to determine which courses are considered applied coursework.
- ⁵ Elective credit may vary based on General Education course selection, second language requirements, prerequisites, dual credit, A credit, double majors and/or minor coursework. The amount indicated in the requirements list if 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.
- ⁶ Completion of a second language through the 112 level or completion of a second language through the 113 or 114 level for Heritage speakers or fulfilling one of the alternatives. See an advisor for specifics. More information is available in the Las Cruces catalog in the Bachelor of Criminal Justice degree section.

Early Childhood

The Early Childhood program is designed to prepare highly qualified students to become teachers, assistant teachers, or family day care providers in professional child care for children ages birth through eight years. Students may choose to continue their education at any four-year institution in New Mexico. Students in the Early Childhood Education program will gain a broad understanding of the specific needs of young children and develop strategies for meeting those needs. This degree will also fill the criteria for the most highly qualified professional in an early childhood position under No Child Left Behind. This degree transfers into a Bachelor's Degree in Early Childhood from the College of Education.

Students must have a 2.5 GPA to graduate from this program. However, a 2.75 GPA is required for acceptance into the Teacher Education Program at NMSU. A grade of C- or better is required in the following TEP prerequisites: ENGL 111G, ENGL 211G, MATH 111, MATH 112G, EDLT 268, and ECED 115, 125, 135, 215, 220, 235, 255, 265.

The Early Childhood program requires that a student take and pass a security background check in order to take the field experience and practicum courses. Past criminal violations may prevent a student from completing a degree in the education program.

Note: Any education courses more than seven years old taken at NMSU or at another institution will not be counted toward the student's undergraduate program. A student may ask for a review of this time limit by the appropriate department. The department head and/or faculty may recommend accepting a course that is seven years old with approval from the Dean's office. Any course not approved must be repeated by the student.

Early Childhood - Associate Degree (p. 83)

Career & Technology Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Cathy Aguilar-Morgan

Administrative Assistant: Michelle Nelson

Office Location:

Science Center

Phone: 575.439.3761

eMail:

ctNMSUA@nmsu.edu (ctnmsua@nmsu.edu)

Website:

http://nmsua.edu/career-and-technology/

Early Childhood - Associate Degree

Note: Any education course more than seven years old taken at NMSU or at another institution will not be counted toward the student's undergraduate program. A student may ask for a review of this time limit by the appropriate department. The department head and/or faculty may recommend accepting a course that is seven years old with approval from the Dean's office. Any course not approved must be repeated by the student.

Students must have a 2.5 GPA to graduate from this program. However, a 2.75 GPA is required for acceptance into the Teacher Education Program at NMSU. A grade of C- or better is required in the following TEP prerequisites: ENGL 111G, ENGL 211G, MATH 111, MATH 112G, EDLT 268, and ECED 115, ECED 125, ECED 135, ECED 215, ECED 220, ECED 235, ECED 255, ECED 265.

Total Credits Required for Degree: 68

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 68 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education I	Requirements	
Area I: Communicati	ons	
English Composition	- Level 1	
ENGL 111G	Rhetoric and Composition ¹	4
English Composition	- Level 2	
ENGL 211G	Writing in the Humanities and Social Sciences ¹	3
Oral Communication		
COMM 265G	Principles of Human Communication	3
or COMM 253G	Public Speaking	
Area II: Mathematics	;	
MATH 112G	Fundamentals of Elementary Math II $^{ m 1}$	3
Areas III/IV: Laborate	ory Science and Social/Behavioral Sciences	11
C EP 110G	Human Growth and Behavior	
Select two differ (8 credits):	ent subjects with labs from the following	
ASTR 110G	Introduction to Astronomy	
or ASTR 105G	The Planets	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
BIOL 110G	Contemporary Problems in Biology	

BIOL 111G & 111GL	Natural History of Life and Natural History of Life Laboratory	
BIOL 211G & 211GL	Cellular and Organismal Biology and Cellular and Organismal Biology Laboratory	
CHEM 110G	Principles and Applications of Chemistry	
or CHEM 111G	General Chemistry I	
E S 110G	Introductory Environmental Science	
GEOG 111G	Geography of the Natural Environment	
or GEOL 111G	Introductory Geology	
PHYS 211G	General Physics I	
& 211GL	and General Physics I Laboratory	
or PHYS 110G	The Great Ideas of Physics	
Area V: Humanities		
HIST 111G	Global History to 1500	3
or HIST 112G	Global History Since 1500	
Area VI: Creative/Fine		
Choose one from the		3
ART 101G	Orientation in Art	
MUS 101G	An Introduction to Music	
MUS 201G	History of Jazz in Popular Music: A Blending of Cultures	
THTR 101G	The World of Theatre	
General Education El	ective	
HIST 201G	Introduction to Early American History	3
or HIST 202G	Introduction to Recent American History	
Core Degree Require	ements	
ECED 115	Child Growth, Development, and Learning	3
ECED 125	Health, Safety, and Nutrition ¹	2
ECED 135	Family and Community Collaboration ¹	3
ECED 215	Curriculum Development Through Play ^{1,} 2	3
ECED 220	Early Childhood Education Practicum I ^{1,} 2	2
ECED 225	Curriculum Development and Implementation II ²	3
ECED 230	Early Childhood Education Practicum II ²	2
ECED 235	Introduction to Language, Literacy and Reading ¹	3
ECED 245	Professionalism	2
ECED 255	Assessment of Children and Evaluation of Programs ¹	3
ECED 265	Guiding Young Children ¹	3
EDLT 268	Integrating Technology with Teaching ¹	3
MATH 111	Fundamentals of Elementary Mathematics I ^{1, 3}	3
Total Credits		68

¹ Pre/co-requisites for Teacher Education Program (TEP). A grade of C- or better is required for course.

² Courses are available online from NMSU Grants. Check with Advisor.

³ Note: Prerequisite for MATH 111 Fundamentals of Elementary Mathematics I is MATH 120 Intermediate Algebra and ENGL 111G Rhetoric and Composition.

A Suggested Plan of Study - Early Childhood

Course	Title	Credits
First Year		
Fall		
C EP 110G	Human Growth and Behavior	3
COMM 253G	Public Speaking	3
or COMM 265G	or Principles of Human	
	Communication	
ECED 115	Child Growth, Development, and Learning	3
ENGL 111G	Rhetoric and Composition	4
	Credits	13
Spring		
ECED 125	Health, Safety, and Nutrition	2
ECED 135	Family and Community Collaboration	3
ECED 235	Introduction to Language, Literacy and	3
	Reading	
EDLT 268	Integrating Technology with Teaching	3
ENGL 211G	Writing in the Humanities and Social Sciences	3
HIST 111G	Global History to 1500	3
or HIST 112G	or Global History Since 1500	
	Credits	17
Summer		
HIST 201G	Introduction to Early American History	3
or HIST 202G	or Introduction to Recent American	
	History	
Choose one from th		3
ART 101G	Orientation in Art	
MUS 101G	An Introduction to Music	
MUS 201G	History of Jazz in Popular Music: A Blending of Cultures	
THTR 101G	The World of Theatre	
	Credits	6
Second Year		
Fall		
ECED 215	Curriculum Development Through Play ²	3
ECED 220	Early Childhood Education Practicum I 2	2
ECED 245	Professionalism	2
ECED 255	Assessment of Children and Evaluation of Programs	3
MATH 111	Fundamentals of Elementary Mathematics I	3
Area II: Laboratory S		4
	Credits	17
	-	

Spring		
ECED 225	Curriculum Development and Implementation II ²	3
ECED 230	Early Childhood Education Practicum II 2	2
ECED 265	Guiding Young Children	3
MATH 112G	Fundamentals of Elementary Math II	3
Area II: Laboratory Science Course ¹		4
	Credits	15
	Total Credits	68

¹ See Degree Requirements Tab (p. 83) for specifics

² Course is available online from NMSU Grants. Check with Advisor.

Education

The Associate degree in Education is designed to prepare the student for work as a teacher's aide, substitute teacher, or other paraprofessional in elementary or secondary schools. The curriculum is also designed for maximum application of credits to the Teacher Education Program (TEP) at NMSU for those students planning to complete the Bachelor's Degree in Education. Students pursuing a Bachelor's Degree in Education must apply to the Teacher Education Program (TEP).

Students must have a 2.5 GPA to graduate from this program. However, a 2.75 GPA is required for acceptance into the Teacher Education Program at NMSU. A grade of C- or better is required in the following TEP prerequisites: ENGL 111G, ENGL 211G, MATH 111, MATH 112G, MATH 121G, MATH 190G, EDUC 103, EDUC 204, EDUC 281, EDLT 268, and C EP 210.

Note: Check degree concentrations for appropriate TEP prerequisites.

A Bachelor of Science in Elementary Education completion program is available on the Alamogordo campus via ITV and online instruction through the College of Education in Las Cruces.

Note: Any education courses more than seven years old taken at NMSU or at another institution will not be counted toward the student's undergraduate program. A student may ask for a review of this time limit by the appropriate department. The department head and/or faculty may recommend accepting a course that is seven years old with approval from the Dean's office. Any course not approved must be repeated by the student.

Education - Associate Degree, Elementary Concentration (p. 85)

Education - Associate Degree, Secondary Math Concentration (p. 87)

Education - Associate Degree, Secondary Science Concentration (p. 89)

Career & Technology Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Cathy Aguilar-Morgan

Administrative Assistant: Michelle Nelson

Office Location:

Science Center

Phone:

575.439.3761

eMail:

ctNMSUA@nmsu.edu (ctnmsua@nmsu.edu)

Website:

http://nmsua.edu/career-and-technology/

Education - Associate Degree, Elementary Concentration

Note: Any education course more than seven years old taken at NMSU or at another institution will not be counted toward the student's undergraduate program. A student may ask for a review of this time limit by the appropriate department. The department head and/or faculty may recommend accepting a course that is seven years old with approval from the Dean's office. Any course not approved must be repeated by the student.

Students must have a 2.5 GPA to graduate from this program. However, a 2.75 GPA is required for acceptance into the Teacher Education Program at NMSU. A grade of C- or better is required in the following TEP prerequisites: ENGL 111G, ENGL 211G, MATH 111, MATH 112G, EDUC 103, EDLT 268, C EP 210, and EDUC 204.

Total Credits Required for Elementary Concentration: 60

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education F	Requirements	
Area I: Communicatio	วท	
English Composition	- Level 1	
ENGL 111G	Rhetoric and Composition ¹	4
English Composition	- Level 2	
ENGL 211G	Writing in the Humanities and Social Sciences ¹	3
Oral Communication		
COMM 265G	Principles of Human Communication	3
or COMM 253G	Public Speaking	
Area II: Mathematics		
MATH 112G	Fundamentals of Elementary Math II ¹	3
Areas III/IV: Laborato	ory Science and Social/Behavioral Sciences	11
C EP 110G	Human Growth and Behavior	
Choose two diffe	rent subjects with labs (8 credits)	
ASTR 110G	Introduction to Astronomy	
or ASTR 105G	The Planets	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
BIOL 110G	Contemporary Problems in Biology	

Total Credits		60
Electives, to bring th	ne total credits 60 ⁴	3-4
MATH 120	Intermediate Algebra ³	3
MATH 111	Fundamentals of Elementary Mathematics I ^{1, 2}	3
LING 200G	Introduction to Language	3
GOVT 110G	Introduction to Political Science	
GOVT 100G	American National Government	
GEOG 120G	Culture and Environment	
GEOG 112G	World Regional Geography	
Choose one from th	e following:	3
EDUC 204	Foundations of Bilingual/ESL Education ¹	3
EDUC 103	Introduction with Internship in Bilingual Education/ESL ¹	3
EDLT 268	Integrating Technology with Teaching ¹	3
C EP 210	Educational Psychology ¹	3
Core Degree Require	ements	
or HIST 202G	Introduction to Recent American History	
HIST 201G	Introduction to Early American History	3
General Education El	ective	
THTR 101G	The World of Theatre	
MUS 101G	An Introduction to Music	
ART 101G	Orientation in Art	
Choose one from th	e following:	3
Area VI: Creative/Fine	e Arts	
or HIST 112G	Global History Since 1500	
HIST 111G	Global History to 1500	3
Area V: Humanities		
or PHYS 110G	The Great Ideas of Physics	
& 211GL	and General Physics I Laboratory	
PHYS 211G	General Physics I	
	The Dynamic Earth	
GEOG 111G	Introductory Geology	
E S 110G GEOG 111G	Introductory Environmental Science Geography of the Natural Environment	
	General Chemistry I	
CHEM 110G	Principles and Applications of Chemistry	
& 211GL	and Cellular and Organismal Biology Laboratory	
BIOL 211G	and Natural History of Life Laboratory Cellular and Organismal Biology	
BIOL 111G & 111GL	Natural History of Life	

- 1 Pre/co-requisites for Teacher Education Program (TEP). A grade of C- or better is required for course.
- 2 Prerequisite for MATH 111 Fundamentals of Elementary Mathematics I is MATH 120 Intermediate Algebra and ENGL 111G Rhetoric and Composition.
- 3 If test out of MATH 120, choose Elective (3 credits) from teaching field.

An Elective from the Teaching fields listed below is recommended. See advisor for appropriate choice.

Language Arts

4

- · ENGL 363 Literature for Children and Young Adults (Offered at Las Cruces campus only)
- · LING 302V Language and Society (Offered at Las Cruces campus only)
- RDG 360 Elementary School Literacy I (Offered at Las Cruces campus only)
- RDG 361 Elementary School Literacy II (Offered at Las Cruces campus only)
- RDG 371 Instruction for Special Reading Needs (Offered at Las Cruces campus only)

Social Studies

- ANTH Elective
- ECON Elective
- · GEOG or GOVT Elective
- HIST Elective
- HIST 368 Teaching History (Offered at Las Cruces campus only)

Mathematics

- · EDUC 452 Methods of Teaching Elementary School Mathematics (Offered at Las Cruces campus only)
- MATH 121G College Algebra
- MATH 142G Calculus for the Biological and Management Sciences
- MATH 190G Trigonometry and Precalculus
- · MATH 215 Fundamentals of Elementary Mathematics III
- · STAT 251G Statistics for Business and the Behavioral Sciences/A ST 251G Statistics for Business and the Behavioral Sciences

General Science

- ASTR Elective
- · BIOL Elective
- · CHEM or PHYS Elective
- · GEOL or Physical GEOG Elective
- Science Elective

· Area II: Laboratory Science (General Education) Course

Suggested Plan of Study - Education, **Elementary Concentration**

Course First Year	Title	Credits
Fall		
C EP 110G	Human Growth and Behavior	3
COMM 253G or COMM 265G	Public Speaking or Principles of Human Communication	3
EDUC 204	Foundations of Bilingual/ESL Education	3
ENGL 111G	Rhetoric and Composition	4
MATH 120	Intermediate Algebra	3
	Credits	16
Spring		
C EP 210	Educational Psychology	3
EDUC 103	Introduction with Internship in Bilingual Education/ESL	3
ENGL 211G	Writing in the Humanities and Social Sciences	3

HIST 111G or HIST 112G	Global History to 1500	3
	or Global History Since 1500	-
MATH 111	Fundamentals of Elementary Mathematics I	3
	Credits	15
Second Year		
Fall		
Choose one from t	he following:	3
ART 101G	Orientation in Art	
MUS 101G	An Introduction to Music	
THTR 101G	The World of Theatre	
Choose one from t	he following:	3
GEOG 112G	World Regional Geography	
GEOG 120G	Culture and Environment	
GOVT 100G	American National Government	
GOVT 110G	Introduction to Political Science	
HIST 201G or HIST 202G	Introduction to Early American History or Introduction to Recent American History	3
Area II: Laboratory	Science Course ¹	4
MATH 112G	Fundamentals of Elementary Math II	3
	Credits	16
Spring		
EDLT 268	Integrating Technology with Teaching	3
LING 200G	Introduction to Language	3
Area II: Laboratory	Science ¹	4
Teaching Field Elective ²		3
	Credits	13
	Total Credits	60

See the Degree Requirements tab (p. 85) for more information 2

An Elective from the Teaching fields listed below is recommended. See advisor for appropriate choice.

Language Arts

1

- · ENGL 363 Literature for Children and Young Adults (Offered at Las Cruces campus only)
- LING 302V Language and Society (Offered at Las Cruces campus only)
- RDG 360 Elementary School Literacy I (Offered at Las Cruces campus only)
- · RDG 361 Elementary School Literacy II (Offered at Las Cruces campus only)
- RDG 371 Instruction for Special Reading Needs (Offered at Las Cruces campus only)

Social Studies

- ANTH Elective
- ECON Elective
- GEOG or GOVT Elective
- HIST Elective
- HIST 368 Teaching History (Offered at Las Cruces campus only)

Mathematics

- · EDUC 452 Methods of Teaching Elementary School Mathematics (Offered at Las Cruces campus only)
- MATH 121G College Algebra
- · MATH 142G Calculus for the Biological and Management Sciences
- · MATH 190G Trigonometry and Precalculus
- MATH 215 Fundamentals of Elementary Mathematics III
- · STAT 251G Statistics for Business and the Behavioral Sciences/A ST 251G Statistics for Business and the Behavioral Sciences

General Science

- ASTR Elective
- · BIOL Elective
- CHEM or PHYS Elective
- · GEOL or Physical GEOG Elective
- Science Elective
- · Area II: Laboratory Science (General Education) Course

Education - Associate Degree, Secondary Math Concentration

Note: Any education course more than seven years old taken at NMSU or at another institution will not be counted toward the student's undergraduate program. A student may ask for a review of this time limit by the appropriate department. The department head and/or faculty may recommend accepting a course that is seven years old with approval from the Dean's office. Any course not approved must be repeated by the student.

Students must have a 2.5 GPA to graduate from this program. However, a 2.75 GPA is required for acceptance into the Teacher Education Program at NMSU. A grade of C- or better is required in the following TEP prerequisites: ENGL 111G, ENGL 211G, MATH 190G, EDUC 281, and EDLT 268.

Total Credits Required for Secondary Math Concentration: 61

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits. Developmental coursework will not count towards the

degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

English Composition - Level 2ENGL 211GWriting in the Humanities and Social Sciences 13Dral Communication3OVM 265GPrinciples of Human Communication or COMM 253G9Area II: Mathematics4WATH 190GTrigonometry and Precalculus 1.24Areas III/IV: Laboratory Science and Social/Behavioral Sciences10C EP 110GHuman Growth and Behavior10Choose one from the following:2ECON 201GIntroduction to EconomicsECON 251GPrinciples of MacroeconomicsECON 252GPrinciples of MicroeconomicsSelect one sequence from the following:PHYS 211GGeneral Physics 1& 211GLand General Physics 1& 215GLand Engineering Physics 1 LaboratoryPHYS 215GEngineering Physics 1 LaboratoryArea V: Humanities3drift 101GRoots of Modern Europeor HIST 102GModern EuropeART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreSeneral Education Elective3Or HIST 202GIntroduction to Recent American HistoryOr HIST 202GIntroduction to Secondary Education and Youth 1MATH 191GCalculus and Analytic Geometry IMATH 191GCalculus and Analytic Geometry III <th>Prefix</th> <th>Title</th> <th>Credits</th>	Prefix	Title	Credits
English Composition - Level 1 ENGL 111 G Rhetoric and Composition ¹ 4 English Composition - Level 2 ENGL 211 G Writing in the Humanities and Social Sciences ¹ Dral Communication COMM 265 G Principles of Human Communication 3 or COMM 253 Public Speaking Area II: Mathematics MATH 190 G Trigonometry and Precalculus ^{1, 2} 4 Areas III/IV: Laboratory Science and Social/Behavioral Sciences 10 C EP 110 G Human Growth and Behavior Choose one from the following: ECON 201 G Introduction to Economics ECON 252 Principles of Microeconomics ECON 252 Righter and General Physics I Laboratory PHYS 211 G General Physics I Laboratory PHYS 215 G Engineering Physics I Laboratory Area V: Humanities HIST 101 G Roots of Modern Europe Area V: Creative/Fine Arts Choose one from the following: 3 ART 101 G Orientation in Art MUS 101 G An Introduction to Early American History 3 or HIST 202 G Introduction to Barly American History 3 ART 101 G The World of Theatre General Education Elective HIST 201 G Introduction to Rusic THTR 101 G The World of Theatre Sci I 11 Computer Science Principles 4 ET 182 Digital Logic 3 EDU 281 Introduction to Secondary Education and Youth 1 WATH 191 G Calculus and Analytic Geometry II WATH 291 G Calculus and Analytic Geometry III 3 Select one from the following: 4	General Education F	Requirements	
ENGL 111GRhetoric and Composition 14English Composition - Level 2ENGL 211GWriting in the Humanities and Social Sciences 13Dral Communication3COMM 255GPrinciples of Human Communication or COMM 253G9Watter 1906Trigonometry and Precalculus 1.24Area II: Mathematics4WATH 1906Trigonometry and Precalculus 1.24Areas III/IV: Laboratory Science and Social/Behavioral Sciences10C EP 110GHuman Growth and Behavior10Choose one from the following:10ECON 251GPrinciples of MacroeconomicsECON 251GPrinciples of MacroeconomicsECON 252GPrinciples of MacroeconomicsSelect one sequence from the following:10PHYS 211GGeneral Physics 1& 215GEngineering Physics 1 LaboratoryArea V: Humanities34TIST 101GRoots of Modern Europeor HIST 102GModern EuropeART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education Elective3ART 101GIntroduction to Recent American HistoryOr HIST 202GIntroduction to Secondary Education and Youth 1MATH 191GCalculus and Analytic Geometry I4MATH 192G<	Area I: Communicatio	on	
English Composition - Level 2 ENGL 2116 Writing in the Humanities and Social Sciences ¹ Dral Communication COMM 265G Principles of Human Communication 3 or COMM 253G Public Speaking Area II: Mathematics WATH 1906 Trigonometry and Precalculus ^{1, 2} 4 Areas III/N': Laboratory Science and Social/Behavioral Sciences 10 C EP 110G Human Growth and Behavior Choose one from the following: ECON 201G Introduction to Economics ECON 251G Principles of Macroeconomics ECON 251G Principles of Macroeconomics ECON 252G Principles of Macroeconomics ECON 252G Principles of Macroeconomics ECON 252G Principles of Microeconomics ECON 252G Pr	English Composition	- Level 1	
ENGL 211 GWriting in the Humanities and Social Sciences 13Dral Communication33OVAL 265GPrinciples of Human Communication or COMM 253GPublic SpeakingArea II: Mathematics4WATH 190GTrigonometry and Precalculus 1.24Areas III/IV: Laboratory Science and Social/Behavioral Sciences10C EP 110GHuman Growth and Behavior10Choose one from the following:10ECON 201GIntroduction to EconomicsECON 251GPrinciples of MacroeconomicsSelect one sequence from the following:12PHYS 211GGeneral Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryPHYS 215GModern EuropeArea V: Humanities3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreSeneral Education Elective3ART 101GOrientation to Recent American Historyor HIST 202GIntroduction to Recent American Historyor HIST 202GIntroduction to Recent American Historyor HIST 202GIntroduction to Secondary Education and Youth 1MATH 191GCalculus and Analytic Geometry IIMATH 192GCalculus and Analytic Geometry IIIMATH 192GCalculus and Analytic Geometry IIISelect one from the following:4	ENGL 111G	Rhetoric and Composition ¹	4
Sciences 1Oral CommunicationCOMM 265GPrinciples of Human CommunicationCOMM 253GPublic SpeakingArea II: MathematicsMATH 190GTrigonometry and Precalculus ^{1, 2} A Areas III/IV: Laboratory Science and Social/Behavioral SciencesCEP 110GHuman Growth and BehaviorChoose one from the following:ECON 2016Introduction to EconomicsECON 252GPrinciples of MacroeconomicsScience and Social/Behavioral SciencesCON 2016Introduction to EconomicsECON 252GPrinciples of MacroeconomicsScience and Social/BehavioralScience and Social/Behavioral SciencesECON 252GPrinciples of MacroeconomicsScience and General Physics I LaboratoryPHYS 2116General Physics I LaboratoryPHYS 2116And Engineering Physics I LaboratoryArea V: HumanitiesHIST 1016Rots of Modern EuropeArea V: Creative/Fine ArtsChoose one from the following:3ART 1016Orientation in ArtMUS 1016An Introduction to Recent American HistoryOrient Ectiv	English Composition	- Level 2	
COMM 265GPrinciples of Human Communication3or COMM 253GPublic Speaking3Area II: Mathematics3MATH 190GTrigonometry and Precalculus ^{1, 2} 4Areas III/IV: Laboratory Science and Social/Behavioral Sciences10C EP 110GHuman Growth and Behavior10C EP 110GIntroduction to Economics10C EON 201GIntroduction to Economics10ECON 251GPrinciples of Macroeconomics10ECON 252GPrinciples of Microeconomics10Select one sequence from the following:14PHYS 211GGeneral Physics I& 211GLand General Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryArea V: Humanities3or HIST 102GModern EuropeArea V: Creative/Fine Arts3Choose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education Elective3AIST 202GIntroduction to Recent American HistoryOr HIST 202GIntroduction to Recent American HistoryOr HIST 202GIntroduction to Secondary Education and Youth ¹ MATH 191GCalculus and Analytic Geometry I4MATH 191GCalculus and Analytic Geometry III4MATH 192GCalculus and Analytic Geometry III4MATH 291GCalculus and Analytic Geometry III4 <td>ENGL 211G</td> <td></td> <td>3</td>	ENGL 211G		3
or COMM 253G Public Speaking Area II: Mathematics WATH 1906 Trigonometry and Precalculus ^{1, 2} 4 Areas III/IV: Laboratory Science and Social/Behavioral Sciences 10 C EP 110G Human Growth and Behavior Choose one from the following: ECON 251G Principles of Macroeconomics ECON 252G Principles of Macroeconomics ECON 252G Principles of Microeconomics ECON 252G Principles of Microeconomics ECON 252G Engineering Physics I Laboratory PHYS 211G General Physics I Laboratory PHYS 215G Engineering Physics I Laboratory PHYS 215G Engineering Physics I Laboratory Area V: Humanities HIST 101G Roots of Modern Europe Area V: Creative/Fine Arts Choose one from the following: 3 ART 101G Orientation in Art MUS 101G An Introduction to Barly American History Or HIST 202G Introduction to Recent American History Or HIST 202G Introduction to Recent American History Or HIST 202G Introduction to Recent American History Or HIST 202G Introduction to Secondary Education and Youth ¹ WATH 191G Calculus and Analytic Geometry II 4 WATH 291G Calculus and Analytic Geometry III 3 Select one from the following: 4	Oral Communication		
Area II: MathematicsImage of the prime of the	COMM 265G	Principles of Human Communication	3
MATH 190G Trigonometry and Precalculus ^{1, 2} 4 Areas III/IV: Laboratory Science and Social/Behavioral Sciences 10 C EP 110G Human Growth and Behavior Choose one from the following: ECON 201G Introduction to Economics ECON 251G Principles of Macroeconomics ECON 252G Principles of Microeconomics Select one sequence from the following: PHYS 211G General Physics I Laboratory PHYS 215G Engineering Physics I Laboratory PHYS 215G Engineering Physics I Laboratory PHYS 215G Modern Europe 3 or HIST 101G Roots of Modern Europe 3 or HIST 102G Modern Europe 3 ART 101G Orientation in Art MUS 101G An Introduction to Music THTR 101G The World of Theatre General Education Elective HIST 202G Introduction to Recent American History 3 or HIST 202G Introduction to Recent American History 3 or HIST 202G Introduction to Recent American History 3 or HIST 202G Introduction to Secondary Education and Youth ¹ MATH 191G Calculus and Analytic Geometry II 4 MATH 192G Calculus and Analytic Geometry II 5 Celect one from the following: 4 Celect one from the following Celectery III 5 Celect one from the following: 5 Ce	or COMM 253G	Public Speaking	
Areas III/IV: Laboratory Science and Social/Behavioral Sciences10C EP 110GHuman Growth and BehaviorChoose one from the following:ECON 201GIntroduction to EconomicsECON 251GPrinciples of MacroeconomicsECON 252GPrinciples of MicroeconomicsSelect one sequence from the following:PHYS 211GPHYS 211GGeneral Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryPHYS 215GModern Europeand Engineering Physics I LaboratoryArea V: HumanitiesHIST 101GRoots of Modern EuropeArea V: Creative/Fine ArtsChoose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education ElectiveHIST 202GIntroduction to Early American Historyor HIST 202GIntroduction to Recent American Historyor HIST 202GIntroduction to Recent American Historyor HIST 202GIntroduction to Secondary Education and Youth 1CDEDEGRE Requirements3EDUC 281Integrating Technology with Teaching 1EDUC 281Introduction to Secondary Education and Youth 1MATH 191GCalculus and Analytic Geometry IMATH 192GCalculus and Analytic Geometry IIISelect one from the following:4Select one from the following:4	Area II: Mathematics	: :	
Areas III/IV: Laboratory Science and Social/Behavioral Sciences10C EP 110GHuman Growth and BehaviorChoose one from the following:ECON 201GIntroduction to EconomicsECON 251GPrinciples of MacroeconomicsECON 252GPrinciples of MicroeconomicsSelect one sequence from the following:PHYS 211GPHYS 211GGeneral Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryPHYS 215GModern Europeand Engineering Physics I LaboratoryArea V: HumanitiesHIST 101GRoots of Modern EuropeArea V: Creative/Fine ArtsChoose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education ElectiveHIST 202GIntroduction to Early American Historyor HIST 202GIntroduction to Recent American Historyor HIST 202GIntroduction to Recent American Historyor HIST 202GIntroduction to Secondary Education and Youth 1CDEDEGRE Requirements3EDUC 281Integrating Technology with Teaching 1EDUC 281Introduction to Secondary Education and Youth 1MATH 191GCalculus and Analytic Geometry IMATH 192GCalculus and Analytic Geometry IIISelect one from the following:4Select one from the following:4	MATH 190G	Trigonometry and Precalculus ^{1, 2}	4
Choose one from the following:ECON 201GIntroduction to EconomicsECON 251GPrinciples of MacroeconomicsECON 252GPrinciples of MicroeconomicsSelect one sequence from the following:PHYS 211GPHYS 211GGeneral Physics I& 211GLand General Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryPHYS 215GModern EuropeArea V: HumanitiesModern EuropeArea V: Creative/Fine ArtsState and Introduction to MusicChoose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education Elective3or HIST 202GIntroduction to Recent American Historyor HIST 202GIntroduction to Recent American Historyor HIST 202GIntroduction to Secondary Education and Youth 1Core Degree Requirements3CS 111Computer Science PrinciplesCS 111Computer Science PrinciplesAT 182Digital LogicSEDUC 281Introduction to Secondary Education and Youth 1MATH 191GCalculus and Analytic Geometry IIMATH 191GCalculus and Analytic Geometry IIIAMTH 291GCalculus and Analytic Geometry IIISelect one from the following:4	Areas III/IV: Laborato		10
ECON 2016Introduction to EconomicsECON 251GPrinciples of MacroeconomicsECON 252GPrinciples of MicroeconomicsSelect one sequence from the following:PHYS 2116PHYS 2116General Physics I& 2116Land General Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryPHYS 215GModern EuropeArea V: HumanitiesModern EuropeArea V: Creative/Fine ArtsStore Degree Area V: Creative/Fine ArtsChoose one from the following:3ART 1016Orientation in ArtMUS 1016An Introduction to MusicTHTR 1016The World of TheatreGeneral Education Elective3or HIST 2026Introduction to Early American History33Or HIST 2026Introduction to Recent American History33Degree Requirements3CS 111Computer Science PrinciplesCS 111Computer Science Principles25 111Digital Logic33EDUC 281Introduction to Secondary Education and Youth 1MATH 191GCalculus and Analytic Geometry I4MATH 192GCalculus and Analytic Geometry III3Select one from the following:4		,	
ECON 251GPrinciples of MacroeconomicsECON 252GPrinciples of MicroeconomicsSelect one sequence from the following:PHYS 211GGeneral Physics I& 211GLand General Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryArea V: Humanitiesand Engineering Physics I LaboratoryArea V: HumanitiesModern EuropeArea V: Creative/Fine Arts3Choose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education Elective3or HIST 202GIntroduction to Recent American Historyor HIST 201GIntroduction to Recent American Historyor HIST 202GIntroduction to Recent American Historyor HIST 202GIntroduction to Secondary Education and Youth 1Core Degree Requirements3CS 111Computer Science PrinciplesCS 111Computer Science PrinciplesCS 2111Computer Science PrinciplesCS 111Computer Science PrinciplesCS 111Computer Science PrinciplesART 191GCalculus and Analytic Geometry IMATH 191GCalculus and Analytic Geometry IIMATH 192GCalculus and Analytic Geometry IIIMATH 291GCalculus and Analytic Geometry IIISelect one from the following:4	Choose one from th	e following:	
ECON 252GPrinciples of MicroeconomicsSelect one sequence from the following:PHYS 211GGeneral Physics I& 211GLand General Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryArea V: Humanitiesand Engineering Physics I LaboratoryArea V: HumanitiesModern EuropeArea V: Creative/Fine Arts3Choose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education Elective3Or HIST 202GIntroduction to Recent American HistoryOr HIST 202GIntroduction to Recent American HistoryOr HIST 202GIntroduction to Recent American HistoryCore Degree Requirements3CS 111Computer Science PrinciplesCS 111Computer Science PrinciplesATH 191GCalculus and Analytic Geometry IMATH 191GCalculus and Analytic Geometry IIMATH 192GCalculus and Analytic Geometry IIIMATH 291GCalculus and Analytic Geometry IIISelect one from the following:4	ECON 201G	Introduction to Economics	
ECON 252GPrinciples of MicroeconomicsSelect one sequence from the following:PHYS 211GGeneral Physics I& 211GLand General Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryArea V: Humanitiesand Engineering Physics I LaboratoryArea V: HumanitiesModern EuropeArea V: Creative/Fine Arts3Choose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education Elective3Or HIST 202GIntroduction to Recent American HistoryOr HIST 202GIntroduction to Recent American HistoryOr HIST 202GIntroduction to Recent American HistoryCore Degree Requirements3CS 111Computer Science PrinciplesCS 111Computer Science PrinciplesATH 191GCalculus and Analytic Geometry IMATH 191GCalculus and Analytic Geometry IIMATH 192GCalculus and Analytic Geometry IIIMATH 291GCalculus and Analytic Geometry IIISelect one from the following:4			
Select one sequence from the following:PHYS 211GGeneral Physics I& 211GLand General Physics I LaboratoryPHYS 215GEngineering Physics I Laboratory& 215GLand Engineering Physics I LaboratoryArea V: Humanities3HIST 101GRoots of Modern EuropeArea V: Creative/Fine Arts3Choose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education ElectiveHIST 201GIntroduction to Recent American Historyor HIST 202GIntroduction to Recent American Historyor HIST 202GIntroduction to Recent American HistoryCore Degree Requirements3CS 111Computer Science PrinciplesCS 111Computer Science PrinciplesSEDLT 268Integrating Technology with Teaching 1SEDUC 281Introduction to Secondary Education and Youth 1WATH 191GCalculus and Analytic Geometry IIWATH 291GCalculus and Analytic Geometry IIIWATH 291GCalculus and Analytic Geometry IIISelect one from the following:4	ECON 252G	•	
PHYS 211GGeneral Physics I& 211GLand General Physics I LaboratoryPHYS 215GEngineering Physics I LaboratoryArea V: Humanitiesand Engineering Physics I LaboratoryArea V: HumanitiesModern EuropeArea V: HumanitiesModern EuropeArea V: Creative/Fine Arts3Choose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education Elective3IST 201GIntroduction to Early American Historyor HIST 202GIntroduction to Recent American Historyor HIST 202GIntroduction to Recent American HistoryOre Degree Requirements3CS 111Computer Science PrinciplesCS 111Colulus and Analytic Geometry IMATH 191GCalculus and Analytic Geometry IIMATH 192GCalculus and Analytic Geometry IIMATH 291GCalculus and Analytic Geometry IIIMATH 291GCalculus and Analytic Geometry IIISelect one from the following:4		•	
& 211GLand General Physics I LaboratoryPHYS 215GEngineering Physics I& 215GLand Engineering Physics I LaboratoryArea V: HumanitiesHIST 101GHIST 101GRoots of Modern Europeor HIST 102GModern EuropeArea VI: Creative/Fine Arts3Choose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education Elective3HIST 201GIntroduction to Early American Historyor HIST 202GIntroduction to Recent American Historyor HIST 202GIntroduction to Recent American Historyor HIST 202GIntroduction to Secondary Education and Youth 1CS 111Computer Science Principles4ATH 191GCalculus and Analytic Geometry I4MATH 192GCalculus and Analytic Geometry IIATH 291GCalculus and Analytic Geometry IIISelect one from the Following:4	•	5	
PHYS 215GEngineering Physics I& 215GLand Engineering Physics I LaboratoryArea V: HumanitiesFoots of Modern EuropeHIST 101GRoots of Modern Europeor HIST 102GModern EuropeArea VI: Creative/Fire ArtsSChoose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education Elective1HIST 201GIntroduction to Early American Historyor HIST 202GIntroduction to Recent American HistoryCore Degree Requirements3CS 111Computer Science PrinciplesCS 111Computer Science PrinciplesCS 111Integrating Technology with Teaching 1SEDUC 281Introduction to Secondary Education and Youth 1MATH 191GCalculus and Analytic Geometry IMATH 192GCalculus and Analytic Geometry IIIMATH 291GCalculus and Analytic Geometry IIISelect one from the following:4		,	
& 215GLand Engineering Physics I LaboratoryArea V: HumanitiesRoots of Modern Europe3HIST 101GRoots of Modern Europe3or HIST 102GModern Europe3Area VI: Creative/Fire Arts3Choose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education Elective3HIST 201GIntroduction to Early American HistoryOrien Degree Requirements3CS 111Computer Science PrinciplesCS 111Coloulus and Analytic Geometry IMATH 191GCalculus and Analytic Geometry IIMATH 192GCalculus and Analytic Geometry IIIMATH 291GCalculus and Analytic Geometry IIISelect one from the following:4	PHYS 215G	• •	
HIST 101GRoots of Modern Europe3or HIST 102GModern Europe3Area VI: Creative/Fire Arts3Choose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education Elective3HIST 201GIntroduction to Early American Historyor HIST 202GIntroduction to Recent American Historyor HIST 202GIntroduction to Recent American HistoryCS 111Computer Science PrinciplesCS 111Computer Science PrinciplesEDUC 281Integrating Technology with TeachingPUC 281Introduction to Secondary Education and YouthMATH 191GCalculus and Analytic Geometry IIMATH 291GCalculus and Analytic Geometry IIISelect one from the Following:4	& 215GL		
or HIST 102GModern EuropeArea VI: Creative/Fine ArtsChoose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education Elective1HIST 201GIntroduction to Early American Historyor HIST 202GIntroduction to Recent American HistoryOre Degree Requirements3CS 111Computer Science PrinciplesCS 111Computer Science PrinciplesEDLT 268Integrating Technology with Teaching 1EDUC 281Introduction to Secondary Education and Youth 1MATH 191GCalculus and Analytic Geometry IIMATH 291GCalculus and Analytic Geometry IIISelect one from the Following:4	Area V: Humanities		
Area VI: Creative/Fine ArtsChoose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education ElectiveHIST 201GIntroduction to Early American Historyor HIST 202GIntroduction to Recent American HistoryCore Degree RequirementsC S 111Computer Science PrinciplesC S 111Computer Science PrinciplesC S 111Digital LogicS EDLT 268Integrating Technology with Teaching 1S EDUC 281Introduction to Secondary Education and Youth 1MATH 191GCalculus and Analytic Geometry IIMATH 291GCalculus and Analytic Geometry IIIS Elect one from the Following:4	HIST 101G	Roots of Modern Europe	3
Choose one from the following:3ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHR 101GThe World of TheatreGeneral Education ElectiveHIST 201GIntroduction to Early American Historyor HIST 202GIntroduction to Recent American HistoryCS 111Computer Science PrinciplesCS 111Computer Science PrinciplesCS 111Digital LogicCS 111Digital LogicEDUC 281Introduction to Secondary Education and Youth 1MATH 191GCalculus and Analytic Geometry IIMATH 291GCalculus and Analytic Geometry IIISelect one from the Following:4	or HIST 102G	Modern Europe	
ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education ElectiveHIST 201GIntroduction to Early American Historyor HIST 202GIntroduction to Recent American HistoryCore Degree RequirementsC S 111Computer Science PrinciplesC S 111Digital LogicEDLT 268Integrating Technology with Teaching 1EDUC 281Introduction to Secondary Education and Youth 1MATH 191GCalculus and Analytic Geometry IIMATH 291GCalculus and Analytic Geometry IIISelect one from the following:4	Area VI: Creative/Fin	e Arts	
ART 101GOrientation in ArtMUS 101GAn Introduction to MusicTHTR 101GThe World of TheatreGeneral Education ElectiveHIST 201GIntroduction to Early American Historyor HIST 202GIntroduction to Recent American HistoryCore Degree RequirementsC S 111Computer Science PrinciplesC S 111Digital LogicEDLT 268Integrating Technology with Teaching 1EDUC 281Introduction to Secondary Education and Youth 1MATH 191GCalculus and Analytic Geometry IIMATH 291GCalculus and Analytic Geometry IIISelect one from the following:4	Choose one from th	e following:	3
THTR 101GThe World of TheatreGeneral Education ElectiveHIST 201GIntroduction to Early American Historyor HIST 202GIntroduction to Recent American HistoryCore Degree RequirementsCS 111Computer Science PrinciplesCS 111Computer Science PrinciplesE T 182Digital LogicEDLT 268Integrating Technology with TeachingEDUC 281Introduction to Secondary Education and YouthMATH 191GCalculus and Analytic Geometry IIMATH 291GCalculus and Analytic Geometry IIISelect one from the following:4		-	
General Education Elective HIST 201G Introduction to Early American History 3 or HIST 202G Introduction to Recent American History 3 Core Degree Requirements 4 C S 111 Computer Science Principles 4 E T 182 Digital Logic 3 EDLT 268 Integrating Technology with Teaching 1 3 EDUC 281 Introduction to Secondary Education and Youth 1 3 MATH 191G Calculus and Analytic Geometry I 4 MATH 291G Calculus and Analytic Geometry III 3 Select one from the following: 4	MUS 101G	An Introduction to Music	
HIST 201GIntroduction to Early American History3or HIST 202GIntroduction to Recent American History3Core Degree Requirements4C S 111Computer Science Principles4E T 182Digital Logic3EDLT 268Integrating Technology with Teaching 13EDUC 281Introduction to Secondary Education and Youth 13MATH 191GCalculus and Analytic Geometry I4MATH 291GCalculus and Analytic Geometry III3Select one from the following:4	THTR 101G	The World of Theatre	
or HIST 202GIntroduction to Recent American HistoryCore Degree RequirementsCS 111Computer Science Principles4CT 182Digital Logic3EDLT 268Integrating Technology with Teaching 13EDUC 281Introduction to Secondary Education and Youth 13MATH 191GCalculus and Analytic Geometry I4MATH 291GCalculus and Analytic Geometry III3Select one from the Following:4	General Education El	lective	
or HIST 202GIntroduction to Recent American HistoryCore Degree RequirementsCS 111Computer Science Principles4CT 182Digital Logic3EDLT 268Integrating Technology with Teaching 13EDUC 281Introduction to Secondary Education and Youth 13MATH 191GCalculus and Analytic Geometry I4MATH 291GCalculus and Analytic Geometry III3Select one from the Following:4	HIST 201G	Introduction to Early American History	3
Core Degree RequirementsC S 111Computer Science Principles4C S 111Digital Logic3E T 182Digital Logic3EDLT 268Integrating Technology with Teaching 13EDUC 281Introduction to Secondary Education and Youth 13MATH 191GCalculus and Analytic Geometry I4MATH 291GCalculus and Analytic Geometry III3Select one from the Following:4	or HIST 202G		
C S 111Computer Science Principles4C S 111Digital Logic3ET 182Digital Logic3EDLT 268Integrating Technology with Teaching 13EDUC 281Introduction to Secondary Education and Youth 13MATH 191GCalculus and Analytic Geometry I4MATH 192GCalculus and Analytic Geometry II4MATH 291GCalculus and Analytic Geometry III3Select one from the following:4			
E T 182Digital Logic3EDLT 268Integrating Technology with Teaching 13EDUC 281Introduction to Secondary Education and Youth 13MATH 191GCalculus and Analytic Geometry I4MATH 192GCalculus and Analytic Geometry III4MATH 291GCalculus and Analytic Geometry III3Select one from the following:4	. .		4
EDLT 268 Integrating Technology with Teaching 1 3 EDUC 281 Introduction to Secondary Education and Youth 1 3 MATH 191G Calculus and Analytic Geometry I 4 MATH 192G Calculus and Analytic Geometry II 4 MATH 291G Calculus and Analytic Geometry III 3 Select one from the following: 4	E T 182	· ·	
EDUC 281Introduction to Secondary Education and Youth 13MATH 191GCalculus and Analytic Geometry I4MATH 192GCalculus and Analytic Geometry II4MATH 291GCalculus and Analytic Geometry III3Select one from the following:4			
Youth 1MATH 191GCalculus and Analytic Geometry I4MATH 192GCalculus and Analytic Geometry II4MATH 291GCalculus and Analytic Geometry III3Select one from the following:4			
MATH 192GCalculus and Analytic Geometry II4MATH 291GCalculus and Analytic Geometry III3Select one from the following:4		Youth ¹	
MATH 291G Calculus and Analytic Geometry III 3 Select one from the following: 4			
Select one from the following: 4			
	MATH 291G	· ·	
		3	4
		General Physics II	
& 212GL and General Physics II Laboratory			
PHYS 216GEngineering Physics II& 216GLand Engineering Physics II Laboratory			
Total Credits 61	Total Credits		61

- ¹ Pre/co-requisites for Teacher Education Program (TEP). A grade of C- or better is required for course.
- ² Mathematics courses are required for the degree but students may need to take prerequisites first.

A Suggested Plan of Study - Education, Secondary Mathematics Concentration

Course First Year Fall	Title	Credits
C EP 110G	Human Growth and Behavior	3
C EP TTOG COMM 253G		3
or COMM 265G	Public Speaking or Principles of Human Communication	3
ENGL 111G	Rhetoric and Composition	4
MATH 190G	Trigonometry and Precalculus	4
Choose one from th	e following:	3
ART 101G	Orientation in Art	
MUS 101G	An Introduction to Music	
THTR 101G	The World of Theatre	
	Credits	17
Spring		
E T 182	Digital Logic	3
ENGL 211G	Writing in the Humanities and Social Sciences	3
MATH 191G	Calculus and Analytic Geometry I	4
HIST 101G or HIST 102G	Roots of Modern Europe or Modern Europe	3
Choose one from th	e following:	3
ECON 201G	Introduction to Economics	
ECON 251G	Principles of Macroeconomics	
ECON 252G	Principles of Microeconomics	
	Credits	16
Second Year Fall		
CS111	Computer Science Principles	4
MATH 192G	Calculus and Analytic Geometry II	4
HIST 201G or HIST 202G	Introduction to Early American History or Introduction to Recent American History	3
Select one from the	following:	4
PHYS 211G & 211GL	General Physics I and General Physics I Laboratory	
PHYS 215G & 215GL	Engineering Physics I and Engineering Physics I Laboratory	
	Credits	15
Spring		
EDLT 268	Integrating Technology with Teaching	3
EDUC 281	Introduction to Secondary Education and Youth	3

MATH 291G	Calculus and Analytic Geometry III	3
Select one from tl	he following:	4
PHYS 212G & 212GL	General Physics II and General Physics II Laboratory	
PHYS 216G & 216GL	Engineering Physics II and Engineering Physics II Laboratory	
	Credits	13
	Total Credits	61

Education-Associate Degree, Secondary Science Concentration

Note: Any education course more than seven years old taken at NMSU or at another institution will not be counted toward the student's undergraduate program. A student may ask for a review of this time limit by the appropriate department. The department head and/or faculty may recommend accepting a course that is seven years old with approval from the Dean's office. Any course not approved must be repeated by the student.

Students must have a 2.5 GPA to graduate from this program. However, a 2.75 GPA is required for acceptance into the Teacher Education Program at NMSU. A grade of C- or better is required in the following TEP prerequisites: ENGL 111G, ENGL 211G, MATH 121G or MATH 190G,EDUC 281, and EDLT 268.

Total Credits Required for Secondary Science Concentration: 61

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education	Requirements	
Area I: Communicati	on	
English Composition	n - Level 1	
ENGL 111G	Rhetoric and Composition ¹	4
English Composition	n - Level 2	
ENGL 211G	Writing in the Humanities and Social Sciences ¹	3
Oral Communication	,	
COMM 265G	Principles of Human Communication	3
or COMM 253G	Public Speaking	
Area II: Mathematics	3	
MATH 121G	College Algebra ^{1, 2}	3-4
or MATH 190G	Trigonometry and Precalculus	
Areas III/IV: Laborat	ory Science and Social/Behavioral Sciences	10
BIOL 111G	Natural History of Life	
& 111GL	and Natural History of Life Laboratory	
C EP 110G	Human Growth and Behavior	
GEOG 112G	World Regional Geography	
or GEOG 1200	G Culture and Environment	
Area V: Humanities		
Select one from the	e following:	3

1007 1010	De de come come	
HIST 101G	Roots of Modern Europe	
HIST 102G HIST 110G	Modern Europe	
HIST 111G	Making History	
	Global History to 1500	
HIST 112G	Global History Since 1500	
HIST 201G	Introduction to Early American History	
HIST 202G	Introduction to Recent American History	
Area VI: Creative/Fin		0
Select one from the	-	3
ART 101G	Orientation in Art	
ART 110G	Visual Concepts	
ART 295G	Introduction to Art History I	
ART 296G	Introduction to Art History II	
MUS 101G	An Introduction to Music	
THTR 101G	The World of Theatre	
General Education E		
Select one course (Behavioral Sciences	not C EP or GEOG) from Area IV: Social/	3
Core Degree Requir		
BIOL 211G & 211GL	Cellular and Organismal Biology and Cellular and Organismal Biology	4
& ZITGL	Laboratory	
CHEM 111G	General Chemistry I	4
CHEM 112G	General Chemistry II	4
EDLT 268	Integrating Technology with Teaching ¹	3
EDUC 281	Introduction to Secondary Education and	3
2000 201	Youth ¹	0
MATH 142G	Calculus for the Biological and	3
	Management Sciences ⁴	
or MATH 191G	Calculus and Analytic Geometry I	
Select one from the	following:	4
PHYS 211G	General Physics I	
& 211GL	and General Physics I Laboratory	
PHYS 215G	Engineering Physics I	
& 215GL	and Engineering Physics I Laboratory	
Select one from the	following:	4
PHYS 212G	General Physics II	
& 212GL	and General Physics II Laboratory	
PHYS 216G	Engineering Physics II	
& 216GL	and Engineering Physics II Laboratory	
Total Credits		61
¹ Pre/co-requisite	es for Teacher Education Program (TEP). A grade of	F
	equired for course.	
0	llege Algebra or MATH 190G Trigonometry and	
	equired for the degree but students may need to tal	ke
	enter the course.	
³ See the General	Education Section (p. 20) of the catalog for a full li	st
of courses.		
	lculus and Analytic Geometry II or MATH 291G	
Calculus and Ar	nalytic Geometry III are acceptable substitutes.	

A Suggested Plan of Study - Education, Secondary Science Concentration

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

Course	Title	Credits
First Year		
Fall		
BIOL 111G & 111GL	Natural History of Life and Natural History of Life Laboratory	4
CHEM 111G	General Chemistry I	4
ENGL 111G	Rhetoric and Composition	4
MATH 121G or MATH 190G	College Algebra ¹ or Trigonometry and Precalculus	3
	Credits	15
Spring		
BIOL 211G	Cellular and Organismal Biology	4
& 211GL	and Cellular and Organismal Biology Laboratory	
COMM 253G	Public Speaking	3
or COMM 265G	or Principles of Human Communication	
EDUC 281	Introduction to Secondary Education and Youth	3
ENGL 211G	Writing in the Humanities and Social Sciences	3
MATH 142G	Calculus for the Biological and	3
or MATH 191G	Management Sciences or Calculus and Analytic Geometry I	
	Credits	16
Second Year Fall		
C EP 110G	Human Growth and Behavior	3
CHEM 112G	General Chemistry II	4
Select one from the	following:	3
ART 101G	Orientation in Art	
ART 110G	Visual Concepts	
ART 295G	Introduction to Art History I	
ART 296G	Introduction to Art History II	
MUS 101G	An Introduction to Music	
THTR 101G	The World of Theatre	
Select one of the fo	llowing:	4
PHYS 211G	General Physics I	
& 211GL	and General Physics I Laboratory	
PHYS 215G & 215GL	Engineering Physics I and Engineering Physics I Laboratory	
Select one from the		3
HIST 101G	Roots of Modern Europe	
HIST 102G	Modern Europe	
HIST 110G	Making History	
HIST 111G	Global History to 1500	
HIST 112G	Global History Since 1500	
HIST 201G	Introduction to Early American History	
1101 2010	Antered and the Larry American matory	

HIST 202G	Introduction to Recent American History	
	Credits	17
Spring		
EDLT 268	Integrating Technology with Teaching	3
GEOG 112G	World Regional Geography	3
or GEOG 120G	or Culture and Environment	
Select one course Behavioral Science	(not C EP or GEOG) from Area IV: Social/ Is ²	3
Select one from the	e following:	4
PHYS 212G & 212GL	General Physics II and General Physics II Laboratory	
PHYS 216G	Engineering Physics II	
& 216GL	and Engineering Physics II Laboratory	
	Credits	13
	Total Credits	61

¹ MATH 121G College Algebra or MATH 190G Trigonometry and Precalculus is required for the degree but students may need to take prerequisites to enter the course.

² See the General Education Section (p. 20) of the catalog for a full list of courses.

Emergency Medical Services (EMS) Intermediate

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.

The Emergency Medical Technician - Intermediate degree prepares the student to transfer to a 4-year Bachelor of Science - Emergency Medical Service degree.

Emergency Medical Services Licensure: After successful completion of the EMT Basic course, students who are 18 years old are eligible to take the New Mexico State EMT Basic licensing and/or National Registry written examination.

Emergency Medical Services (EMS) Intermediate - Associate of Applied Science (p. 91)

EMS Course Completion Certificates (p. 92)

Career & Technology Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Cathy Aguilar-Morgan

Administrative Assistant:

Michelle Nelson

Office Location: Science Center

Phone: 575.439.3761

eMail: ctNMSUA@nmsu.edu (ctnmsua@nmsu.edu)

Website: http://nmsua.edu/career-and-technology/

Emergency Medical Services (EMS) Intermediate - Associate of Applied Science

The Emergency Medical Technician - Intermediate degree prepares the student to transfer to a 4-year Bachelor of Science - Emergency Medical Service degree.

For specific prerequisite and co-requisite requirements contact the EMS Department in the Career Technical Division at (575) 439-3873.

Total Credits Required for Degree: 60

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education	Requirements	
Select one course fr a total of 12-14 cred	om four of the following six content areas for its. ^{1, 2}	12-14
students will not ne	s courses from Areas I, II, III, and IV eed to take any additional courses to Education requirements.	
Area I: Communi	ications	
ENGL 111G	Rhetoric and Composition (Core Requirement)	
Area II: Mathema	atics	
MATH 121G	College Algebra (Core Requirement) 3	
or MATH 190	G Trigonometry and Precalculus	
Area III: Laborate	ory Science	
CHEM 110G	Principles and Applications of Chemistry (Core Requirement)	
or CHEM 1110	G General Chemistry I	
Area IV: Social/B	Behavioral Sciences	
SOC 101G	Introductory Sociology	
Area V: Humanit	ies	
Area VI: Creative	/Fine Arts	
General Education E	lective	
STAT 251G	Statistics for Business and the Behavioral Sciences	3
or STAT 271G	Statistics for Psychological Sciences	
Core Degree Requir	rements	

ALLC 100	Madical Terminalagy	2
AHS 120	Medical Terminology	3
BIOL 225	Human Anatomy and Physiology I	4
or AHS 153	Introduction to Anatomy and Physiology I	
BIOL 226	Human Anatomy and Physiology II	4
COMM 253G	Public Speaking	3
ENGL 218G	Technical and Scientific Communication	3
0EEM 120	Emergency Medical Technician Basic	6
0EEM 120 L	Emergency Medical Technician Basic Lab	2
OEEM 121	Emergency Medical Technician Basic Field/Clinical	1
OEEM 150	Emergency Medical Technician Intermediate	5
OEEM 150 L	Emergency Medical Technician Intermediate Lab	2
OEEM 151	Emergency Medical Technician Intermediate Field/Clinical	2
PSY 201G	Introduction to Psychology	3
Electives, to bring) the total credits to 60 4	5
Total Credits		60

Total Credits

- 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 (p. 20) of the catalog for a full list of courses.
- 3 MATH 121G College Algebra or MATH 190G Trigonometry and Precalculus is required for the degree but students may need to take prerequisites to enter the course.
- 4 Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor.

A Suggested Plan of Study - EMS, Intermediate

Course	Title	Credits
First Year		
Fall		
BIOL 225 or AHS 153	Human Anatomy and Physiology I or Introduction to Anatomy and Physiology I	4
CHEM 110G or CHEM 111G	Principles and Applications of Chemistry or General Chemistry I	4
ENGL 111G	Rhetoric and Composition	4
MATH 121G or MATH 190G	College Algebra ¹ or Trigonometry and Precalculus	3-4
	Credits	15
Spring		
AHS 120	Medical Terminology	3
BIOL 226	Human Anatomy and Physiology II	4

ENGL 218G	Technical and Scientific Communication	3
SOC 101G	Introductory Sociology	3
STAT 251G or STAT 271G	Statistics for Business and the Behavioral Sciences or Statistics for Psychological Sciences	3
	Credits	16
Second Year		
Fall		
COMM 253G	Public Speaking	3
OEEM 120	Emergency Medical Technician Basic	6
0EEM 120 L	Emergency Medical Technician Basic Lab	2
OEEM 121	Emergency Medical Technician Basic Field/Clinical	1
Elective Course ²		3
	Credits	15
Spring		
OEEM 150	Emergency Medical Technician Intermediate	5
OEEM 150 L	Emergency Medical Technician Intermediate Lab	2
OEEM 151	Emergency Medical Technician Intermediate Field/Clinical	2
PSY 201G	Introduction to Psychology	3
Elective Course ²		2
	Credits	14
	Total Credits	60

¹ MATH 121G College Algebra or MATH 190G Trigonometry and Precalculus is required for the degree but students may need to take prerequisites to enter the course.

² 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.

EMS Course Completion Certificates

Course completion certificates indicate that the student has successfully completed requirements of the course and is eligible to take a national certification exam. Although credit is given for the course, no certificate designation appears on the transcript and the certificate does not become part of a student's permanent academic record. Course completion certificates are not eligible for federal financial aid.

First Responder Course Completion Certificate

This certificate requires successful completion of OEEM 115 First Responder Prehospital Professional (3 credits).

Emergency Medical Technician - Basic Course Completion Certificate

This certificate requires successful completion of OEEM 120 Emergency Medical Technician Basic (6 credits), OEEM 120 L Emergency Medical Technician Basic Lab (2 credits), and OEEM 121 Emergency Medical Technician Basic Field/Clinical (1 credit). All courses must be completed in one semester.

Emergency Medical Technician - Intermediate Course Completion Certificate

This certificate requires successful completion of OEEM 150 Emergency Medical Technician Intermediate (5 credits), OEEM 150 L Emergency Medical Technician Intermediate Lab (2 credits), and OEEM 151 Emergency Medical Technician Intermediate Field/Clinical (2 credits). All courses must be completed in one semester.

Engineering Technology

The Associate of Applied Science degree in Engineering Technology is designed to prepare the graduate for entry-level employment in the fast-growing and challenging technology career-field. The degree is comprised of curriculum relating to engineering technology fundamental coursework. The remaining courses required for completion are chosen as part of two offered concentrations, or majors. Students may also apply the associate degree coursework to a Bachelor Degree in Engineering Technology (Electronics program) and/or a Bachelor Degree in information and Communication Technology (ICT) offered at NMSU Las Cruces.

Electronics Concentration

The Electronics Technology concentration prepares the graduate for an entry-level position in the electronics industry. Employment opportunities include a wide range of careers in research and development, operational support of electronic instrumentation systems, computer and network infrastructures, manufacturing, and communication industries. Electronic technicians develop manufacture, and service electronic equipment using sophisticated measuring and diagnostic equipment.

BMET Concentration

Biomedical Equipment Technology concentration is intended to provide skills and training for students to become Biomedical Equipment Technicians who install, maintain, and repair medical equipment. Employment for Biomedical Technologists is available from hospitals, medical equipment manufacturing/service corporations, doctor's offices, and other facilities that utilize medical equipment.

Engineering Technology - Associate of Applied Science, Electronics Concentration (p. 93)

Engineering Technology - Associate of Applied Science, Biomedical Equipment Concentration (p. 94)

Career & Technology Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Cathy Aguilar-Morgan

Administrative Assistant: Michelle Nelson

Office Location: Science Center

Phone:

575.439.3761

eMail:

ctNMSUA@nmsu.edu (ctnmsua@nmsu.edu)

Website:

http://nmsua.edu/career-and-technology/

Engineering Technology - Associate of Applied Science, Electronics Concentration

A grade of C- or better is required in all courses.

Total Credits Required for Degree: 61

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education	Requirements	
Select one course fr a total of 12-14 cred	om four of the following six content areas for its. ^{1, 2}	12-14
This degree require	s courses from Areas I, II, III, and IV.	
Area I: Commun	ications	
ENGL 111G	Rhetoric and Composition (Core Requirement)	
Area II: Mathema	atics	
MATH 121G	College Algebra (Core Requirement) ³	
Area III: Laborate	ory Science ⁴	
	the following (Core Requirement):	
ASTR 105G	The Planets	
ASTR 110G	Introduction to Astronomy	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
CHEM 110G	Principles and Applications of Chemistry	
GEOL 111G	Introductory Geology	
PHYS 211G & 211GL	General Physics I and General Physics I Laboratory	
Area IV: Social/E	Behavioral Sciences	
SOC 101G	Introductory Sociology (Core Requirement)	
or PSY 201G	Introduction to Psychology	
Area V: Humanit	ies	
Area VI: Creative	/Fine Arts	
General Education E	lective	
COMM 265G	Principles of Human Communication	3
Core Degree Requi	rements	
E T 104	Soldering Techniques	1
E T 120	Computation Software	3
E T 153	Introduction to Computer Networks	3
E T 182	Digital Logic	3
E T 183	Applied DC Circuits	3

ET 184	Applied AC Circuits	3
E T 246	Electronic Devices I	4
Е Т 273	Fundamentals of Networking Communications I	4
E T 283	Hardware PC Maintenance	3
ELT 103	Math Study Skills for Electronics 5	2
Electronics Co	ncentration Courses	
E T 220	Internship	1
E T 253	Networking Operating Systems II	3
E T 276	Electronic Communications	3
E T 282	Digital Electronics	4
ELT 205	Semiconductor Devices	4
Total Credits		61

Fotal Credits

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 (p. 20) of the catalog for a full list of courses.

- ³ MATH 121G College Algebra is required for the degree but students may need to take prerequisites to enter the course.
- ⁴ Check with ET faculty advisor for recommended science course.
- ⁵ Taken twice for a total of 2 cr. ELT 103 Math Study Skills for Electronics is mandatory to be taken along with E T 183 Applied DC Circuits and E T 184 Applied AC Circuits.

A Suggested Plan of Study - Engineering Technology, Electronics Concentration

Course First Year	Title	Credits
Fall		
COMM 265G	Principles of Human Communication	3
ET120	Computation Software	3
E T 183	Applied DC Circuits	3
ELT 103	Math Study Skills for Electronics	1
MATH 121G	College Algebra	3
	Credits	13
Spring		
ET104	Soldering Techniques	1
E T 153	Introduction to Computer Networks	3
E T 182	Digital Logic	3
E T 184	Applied AC Circuits	3
ELT 103	Math Study Skills for Electronics	1
ENGL 111G	Rhetoric and Composition	4
	Credits	15
Second Year		
Fall		
E T 220	Internship	1
E T 246	Electronic Devices I	4
E T 253	Networking Operating Systems II	3

E T 273	Fundamentals of Networking Communications I	4
E T 282	Digital Electronics	4
	Credits	16
Spring		
E T 276	Electronic Communications	3
E T 283	Hardware PC Maintenance	3
ELT 205	Semiconductor Devices	4
SOC 101G or PSY 201G	Introductory Sociology or Introduction to Psychology	3
Select one from th	e following: ¹	4
ASTR 105G	The Planets	
ASTR 110G	Introduction to Astronomy	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
CHEM 110G	Principles and Applications of Chemistry	
GEOL 111G	Introductory Geology	
PHYS 211G	General Physics I	
& 211GL	and General Physics I Laboratory	
	Credits	17
	Total Credits	61

¹ Check with ET faculty advisor for recommended science course.

Engineering Technology - Associate of Applied Science, Biomedical Equipment Concentration

A grade of C- or better is required in all courses.

Total Credits Required for Degree: 63

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 63 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education I	Requirements	
Select one course fro a total of 12-14 cred	om four of the following six content areas for its. ^{1,2}	12-14
This degree require	s courses from Areas I, II, III, and IV.	
Area I: Communi	cation	
ENGL 111G	Rhetoric and Composition (Core Requirement)	
Area II: Mathema	atics	
MATH 121G	College Algebra (Core Requirement) ³	
Area III: Laborato	bry Science (Core Requirement) ⁴	
Select one from	the following:	
ASTR 105G	The Planets	
ASTR 110G	Introduction to Astronomy	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
CHEM 110G	Principles and Applications of Chemistry	

GEOL 111G	Introductory Geology	
PHYS 211G & 211GL	General Physics I and General Physics I Laboratory	
Area IV: Social/B	ehavioral Sciences	
SOC 101G	Introductory Sociology (Core Requirement)	
or PSY 201G	Introduction to Psychology	
Area V: Humaniti	es	
Area VI: Creative	/Fine Arts	
General Education E	lective	
COMM 265G	Principles of Human Communication	3
Core Degree Requir	rements	
E T 104	Soldering Techniques	1
E T 120	Computation Software	3
E T 153	Introduction to Computer Networks	3
E T 182	Digital Logic	3
E T 183	Applied DC Circuits	3
E T 184	Applied AC Circuits	3
E T 246	Electronic Devices I	4
ЕТ 273	Fundamentals of Networking Communications I	4
E T 283	Hardware PC Maintenance	3
ELT 103	Math Study Skills for Electronics ⁵	2
Biomedical Equipm	ent Concentration Courses	
OEBM 140	Applied Human Biology for Biomedical Technology	3
OEBM 141	Medical Electronics and Safety in Healthcare	3
OEBM 200	Biomedical Internship ⁶	4
OEBM 211	CBET Exam Preparation	1
OEBM 240	Medical Imaging Systems	3
OEBM 241	Advanced Medical Electronics	3
Total Credits		63

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 (p. 20) of the catalog for a full list of courses.
 ³ automatical end of the catalog for a full list of courses.

MATH 121G College Algebra is required for the degree but students may need to take prerequisites to enter the course.

- ⁴ Check with ET faculty advisor for recommended science course.
- ⁵ Taken twice for a total of 2 cr. ELT 103 Math Study Skills for Electronics is mandatory to be taken along with E T 183 Applied DC Circuits and E T 184 Applied AC Circuits.
- ⁶ Taken twice for a total of 4 credits. OEBM 200 Biomedical Internship requires special registration procedures.

A Suggested Plan of Study - Engineering Technology, Biomedical Equipment Concentration

Course	Title	Credits
First Year		
Fall		
ET104	Soldering Techniques	1
ET120	Computation Software	3
ET 183	Applied DC Circuits	3
ELT 103	Math Study Skills for Electronics	1
OEBM 140	Applied Human Biology for Biomedical Technology	3
MATH 121G	College Algebra	3
	Credits	14
Spring		
COMM 265G	Principles of Human Communication	3
E T 153	Introduction to Computer Networks	3
E T 182	Digital Logic	3
ET 184	Applied AC Circuits	3
ELT 103	Math Study Skills for Electronics	1
OEBM 141	Medical Electronics and Safety in Healthcare	3
	Credits	16
Second Year		
Fall		
E T 246	Electronic Devices I	4
Е Т 273	Fundamentals of Networking Communications I	4
E T 283	Hardware PC Maintenance	3
OEBM 200	Biomedical Internship	2
OEBM 240	Medical Imaging Systems	3
	Credits	16
Spring		
ENGL 111G	Rhetoric and Composition	4
OEBM 211	CBET Exam Preparation	1
OEBM 241	Advanced Medical Electronics	3
OEBM 200	Biomedical Internship	2
SOC 101G	Introductory Sociology	3
or PSY 201G	or Introduction to Psychology	
Select one from the	following: ¹	4
ASTR 105G	The Planets	
ASTR 110G	Introduction to Astronomy	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
CHEM 110G	Principles and Applications of Chemistry	
GEOL 111G	Introductory Geology	
PHYS 211G	General Physics I	
& 211GL	and General Physics I Laboratory	
	Credits	17
	Total Credits	63

¹ Check with ET faculty advisor for recommended science course.

Fine Arts

The Fine Arts program is designed to prepare students to work as professional artists, or to transfer to complete a Bachelor of Arts (BA)

or Bachelor of Fine Arts (BFA) degree in their chosen career field in Art, including drawing, painting, ceramics, or sculpture. Each option area provides specialized training in studio and conceptual processes and allows students to complete all the required coursework for the first two years of study.

The Fine Arts Associate Degree provides a tangible level of expertise and academic recognition for that achievement. Although many of our students do not intend to move on to the BA or BFA degree, they can complete an associate degree in their chosen art field. NMSU-A has developed a top notch art department with state of the art technology and instructors with exceptional credentials and experience.

Fine Arts - Associate Degree (p. 95)

Arts and Sciences Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Dr. David C. MacWilliams

Administrative Assistant: Theresa Chavez

Office Location: Pro-Tech 122C.

Phone: 575.439.3670

eMail: asNMSUA@nmsu.edu (<u>asnmsua@nmsu.edu</u>)

Website: http://nmsua.edu/arts-and-sciences/

Fine Arts - Associate Degree

A grade of C- or better is required in Art courses.

Total Credits Required for Degree: 60

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education F	Requirements	
Area I: Communicati	ons	
English Composition	- Level 1	
ENGL 111G	Rhetoric and Composition	4
English Composition	- Level 2	
Choose one from th	e following:	3
ENGL 203G	Business and Professional Communication	
ENGL 211G	Writing in the Humanities and Social Sciences	
ENGL 218G	Technical and Scientific Communication	

Total Credits		60
Select Ceramics/Se	culpture or Drawing/Painting Option	9
Option Area		
ART 296G	Introduction to Art History II 3	3
ART 275	Introduction to Ceramics	3
ART 260	Introduction to Painting	3
ART 156	3-D Fundamentals ⁴	3
ART 155	2-D Fundamentals ⁴	3
ART 150	Drawing I ⁴	3
Core Degree Requi	rements	
Choose one course	from any General Education area. ²	3-4
General Education E	lective	
ART 295G	Introduction to Art History I ³	3
Area VI: Creative/Fir		
Select one course f	from Area V: Humanities. ²	3
Area V: Humanities		
Select one cours credits) ²	se from either Area III or Area IV. (3-4	
Select one cours (3 credits) ²	se from Area IV: Social/Behavioral Sciences	
Select one cours credits) ²	se from Area III: Laboratory Science (4	
Area III/IV: Laborato	ry Science and Social/Behavioral Sciences	10-11
or MATH 121G	College Algebra	
MATH 210G	Mathematics Appreciation ¹	3
Area II: Mathematics	S	
or COMM 253G	Public Speaking	
COMM 265G	Principles of Human Communication	3

¹ MATH 121G College Algebra or MATH 210G Mathematics Appreciation is required for the degree but students may need to take prerequisites to enter the course.

- ² See the General Education Section (p. 20) of the catalog for a full list of courses.
- ³ ART 295G Introduction to Art History I and ART 296G Introduction to Art History II can be taken in any order.
- It is recommended that students take Fine Arts core requirements, specifically ART 150 Drawing I, ART 155 2-D Fundamentals, ART 156 3-D Fundamentals, and begin pathway requirements in their first year.

Ceramics/Sculpture Option

Prefix	Title	Credits
ART 151	Drawing II	3
ART 265	Introduction to Sculpture	3
ART 276	Ceramics I, B	3
Total Credits		9

Drawing/Painting Option

Prefix	Title	Credits
ART 151	Drawing II	3
ART 261	Painting Methods, Techniques and Applications	3

	ART 262	Aspects of Painting	3
3	Total Credits		9

A Suggested Plan of Study - Fine Arts, Ceramics/Sculpture Option

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

Course First Year Fall	Title	Credits
ART 150	Drawing I	3
ART 155	2-D Fundamentals	3
ENGL 111G	Rhetoric and Composition	4
Area IV: Social/Beha	avioral Sciences Course ¹	3
	Credits	13
Spring		
ART 151	Drawing II	3
ART 156	3-D Fundamentals	3
ART 275	Introduction to Ceramics	3
Choose one from th	e following:	3
ENGL 203G	Business and Professional Communication	
ENGL 211G	Writing in the Humanities and Social Sciences	
ENGL 218G	Technical and Scientific Communication	
MATH 210G or MATH 121G	Mathematics Appreciation ² or College Algebra	3
	Credits	15
Second Year		
Fall		
ART 260	Introduction to Painting	3
ART 295G	Introduction to Art History I	3
COMM 265G or COMM 253G	Principles of Human Communication or Public Speaking	3
Area III: Laboratory	Science Course ¹	4
	Elective (select any area) ¹	3-4
	Credits	16
Spring		
ART 265	Introduction to Sculpture	3
ART 276	Ceramics I, B	3
ART 296G	Introduction to Art History II	3
Area V: Humanities	Course ¹	3
Select one course from Area III or Area IV ¹		
	Credits	16
	Total Credits	60

¹ See the General Education Section (p. 20) of the catalog for a full list of courses.

² MATH 121G College Algebra or MATH 210G Mathematics Appreciation is required for the degree but students may need to take prerequisites to enter the course.

A Suggested Plan of Study - Fine Arts, Drawing/Painting Option

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

Course First Year	Title	Credits
Fall		
ART 150	Drawing I	3
ART 155	2-D Fundamentals	3
ENGL 111G	Rhetoric and Composition	4
Area IV: Social/Beh	avioral Science Course ¹	3
	Credits	13
Spring		
ART 151	Drawing II	3
ART 156	3-D Fundamentals	3
ART 275	Introduction to Ceramics	3
Choose one from th	ne following:	3
ENGL 203G	Business and Professional Communication	
ENGL 211G	Writing in the Humanities and Social Sciences	
ENGL 218G	Technical and Scientific Communication	
MATH 210G or MATH 121G	Mathematics Appreciation ² or College Algebra	3
	Credits	15
Second Year		
Fall		
ART 260	Introduction to Painting	3
ART 295G	Introduction to Art History I	3
COMM 265G or COMM 253G	Principles of Human Communication or Public Speaking	3
Area III: Laboratory	Science Course ¹	4
	Elective (select any area) ¹	3-4
	Credits	16
Spring		
ART 261	Painting Methods, Techniques and Applications	3
ART 262	Aspects of Painting	3
ART 296G	Introduction to Art History II	3
Area V: Humanities	•	3
Select one course f	rom Area III or Area IV ¹	3-4
	Credits	16
	Total Credits	60

¹ See the General Education Section (p. 20) of the catalog for a full list of courses.

² MATH 121G College Algebra or MATH 210G Mathematics Appreciation is required for the degree but students may need to take prerequisites to enter the course.

General Engineering

The General Engineering program prepares the student for transfer to a four-year institution to earn a Bachelor of Science degree in Engineering. The first four semesters of classes are similar throughout the various engineering fields. The student must work closely with an Advisor to select the best options for a successful transition to the four-year institution of his/her choice.

General Engineering - Associate of Science (p. 97)

Career & Technology Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Cathy Aguilar-Morgan

Administrative Assistant: Michelle Nelson

Office Location: Science Center

Phone: 575.439.3761

eMail: ctNMSUA@nmsu.edu (ctnmsua@nmsu.edu)

Website: <u>http://nmsua.edu/career-and-technology/</u>

General Engineering - Associate of Science

The student must work closely with an Advisor to select the best options for a successful transition to the four-year institution of his/her choice.

A grade of C- or better is required in all courses for the degree.

Total Credits Required for Degree: 60

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits	
General Education F	Requirements		
Area I: Communicatio	ons		
English Composition	- Level 1		
ENGL 111G	Rhetoric and Composition	4	
English Composition - Level 2			
ENGL 218G	Technical and Scientific Communication	3	
Oral Communication			
COMM 265G	Principles of Human Communication	3	
Area II: Mathematics			
MATH 191G	Calculus and Analytic Geometry I ¹	4	

Areas III/IV: Labora	tory Science and Social/Behavioral Sciences	11
CHEM 111G	General Chemistry I	
PHYS 215G & 215GL	Engineering Physics I and Engineering Physics I Laboratory	
Select one cour (3 credits) ²	rse from Area IV: Social/Behavioral Sciences	
Area V: Humanities		
Select one course	from Area V: Humanities ²	3
Area VI: Creative/Fi	ine Arts	
Select one course	from Area VI: Creative/Fine Arts ²	3
General Education	Elective	
MATH 192G	Calculus and Analytic Geometry II	4
Core Degree Requ	irements	
CHEM 112G	General Chemistry II	4
or GEOL 111G	Introductory Geology	
DRFT 109	Computer Drafting Fundamentals	3
ECON 251G	Principles of Macroeconomics	3
ENGR 100	Introduction to Engineering	3
ENGR 111	Mathematics for Engineering Applications	3
Select 6-8 credits	from the following:	6-8
C E 233	Mechanics-Statics	
CHEM 112G	General Chemistry II	
GEOL 111G	Introductory Geology	
MATH 291G	Calculus and Analytic Geometry III	
PHYS 216G & 216GL	Engineering Physics II and Engineering Physics II Laboratory	
Elective, to bring t	he total credits to 60 3	3
Total Credits		60

Total Credits

1 MATH 191G Calculus and Analytic Geometry I is required for the degree but students may need to take prerequisites to enter the course.

- 2 See the General Education Section (p. 20) 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-bycase basis and students should discuss elective requirements with their advisor.

A Suggested Plan of Study - General Engineering

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

Course	Title	Credits
First Year		
Fall		
CHEM 111G	General Chemistry I	4
ENGL 111G	Rhetoric and Composition	4
ENGR 100	Introduction to Engineering	3

MATH 191G	Calculus and Analytic Geometry I ¹	4
	Credits	15
Spring		
CHEM 112G or GEOL 111G	General Chemistry II or Introductory Geology	4
DRFT 109	Computer Drafting Fundamentals	3
ENGR 111	Mathematics for Engineering Applications	3
MATH 192G	Calculus and Analytic Geometry II	4
Select one course	from Area IV: Social/Behavioral Sciences ²	3
	Credits	17
Second Year Fall		
ECON 251G	Principles of Macroeconomics	3
ENGL 218G	Technical and Scientific Communication	3
PHYS 215G & 215GL	Engineering Physics I and Engineering Physics I Laboratory	4
	from Area V: Humanities ²	3
	ready chosen) from the following:	3-4
C E 233	Mechanics-Statics	5-4
CHEM 112G	General Chemistry II	
GEOL 111G	Introductory Geology	
MATH 291G	Calculus and Analytic Geometry III	
PHYS 216G & 216GL	Engineering Physics II and Engineering Physics II Laboratory	
	Credits	16
Spring		
COMM 265G	Principles of Human Communication	3
Select one course	from Area VI: Creative/Fine Arts ²	3
Elective Course ³		3
Select one (not alr	eady chosen) from the following:	3-4
C E 233	Mechanics-Statics	
CHEM 112G	General Chemistry II	
GEOL 111G	Introductory Geology	
MATH 291G	Calculus and Analytic Geometry III	
PHYS 216G & 216GL	Engineering Physics II and Engineering Physics II Laboratory	
	Credits	12
	Total Credits	60

1 MATH 191G Calculus and Analytic Geometry I is required for the degree but students may need to take prerequisites to enter the course.

- 2 See the General Education Section (p. 20) 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-bycase basis and students should discuss elective requirements with their advisor.

Graphic Design

The graphic design field is bursting with extremely diverse career possibilities. Technologies like the internet, smart phone, and portable computing devices have created opportunities far beyond the traditional realm of print. Today's graphic design courses reflect this new world of visual communication. Talented graphic designers are now limited only by their imagination.

The Associate in Graphic Design degree and certificate programs are designed to teach students the skills needed for a career in graphic design. The courses required for this degree are centered in digital art but are technologically challenging. The primary focus is on training students in digital media and the successful use of the Adobe software programs.

Graphic Design - Associate of Applied Science (p. 99)

Art and Graphic Design - Certificate (p. 99)

Arts and Sciences Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Dr. David C. MacWilliams

Administrative Assistant: Theresa Chavez

Office Location: Pro-Tech 122C.

Phone: 575.439.3670

eMail: asNMSUA@nmsu.edu (<u>asnmsua@nmsu.edu</u>)

Website: http://nmsua.edu/arts-and-sciences/

Art and Graphic Design - Certificate

The Graphic Design certificate will prepare students for entry level employment in a broad range of industries.

Gainful Employment Disclosure: At public and private not-for-profit institutions, gainful employment programs are Title IV-eligible certificate programs. Effective July 1, 2011, the U.S. Department of Education requires schools with Gainful Employment programs to disclose certain information about these programs. This information can be found at http://nmsua.edu/gainful-employment-disclosures/.

A grade of C- or better in required in all courses.

Total Credits Required for Certificate: 31

Prefix	Title	Credits
Required Courses		
ART 101G	Orientation in Art	3
ART 150	Drawing I	3
ART 155	2-D Fundamentals	3

ART 160	Computer-Based Illustration	3
or CMT 142	Computer Illustration	
ART 161	Digital Imaging I	3
or CMT 145	Image Processing I	
ART 163	Digital Graphics	3
or CMT 140	Print Media I	
ART 165	Web Page Design	3
or CMT 130	Introduction to Web Design	
CMT 190	Digital Video Production I	3
ENGL 111G	Rhetoric and Composition	4
Elective Course ¹		3
Total Credits		31

¹ Recommended electives are ART 269, ART 272; CMT 223.

A Suggested Plan of Study - Graphic Design Certificate

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

Course	Title	Credits
First Year		
Fall		
ART 101G	Orientation in Art	3
ART 150	Drawing I	3
ART 155	2-D Fundamentals	3
ART 161 or CMT 145	Digital Imaging I or Image Processing I	3
ENGL 111G	Rhetoric and Composition	4
	Credits	16
Spring		
ART 160	Computer-Based Illustration	3
or CMT 142	or Computer Illustration	
ART 163	Digital Graphics	3
or CMT 140	or Print Media I	
ART 165	Web Page Design	3
or CMT 130	or Introduction to Web Design	
CMT 190	Digital Video Production I	3
Elective Course ¹		3
	Credits	15
	Total Credits	31

Recommended electives are ART 269, ART 272; CMT 223.

Graphic Design - Associate of Applied Science

A grade of C- or better is required in all courses.

Total Credits Required for Degree: 61

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits. Developmental coursework will not count towards the

degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education	Requirements	
Select one course f a total of 12-14 crea	rom four of the following six content areas for lits. ^{1, 2}	12-14
must select one ot	es courses from Areas I, IV, and VI; students her course from one of the remaining areas al Education requirements.	
Area I: Commur	nications	
ENGL 111G	Rhetoric and Composition (Core Requirement)	
Area II: Mathem	atics	
Area III: Laborat	ory Science	
Area IV: Social/I	Behavioral Sciences	
PSY 201G	Introduction to Psychology (Core Requirement)	
Area V: Humani	ties	
Area VI: Creative	e/Fine Arts	
ART 101G	Orientation in Art (Core Requirement)	
General Education I	Elective	
COMM 265G	Principles of Human Communication	3
Core Degree Requi	rements	
ART 150	Drawing I	3
ART 155	2-D Fundamentals	3
ART 160	Computer-Based Illustration	3
or CMT 142	Computer Illustration	
ART 161	Digital Imaging I	3
or CMT 145	Image Processing I	
ART 163	Digital Graphics	3
or CMT 140	Print Media I	
ART 165	Web Page Design	3
or CMT 130	Introduction to Web Design	
ART 267	Art Portfolio Preparation	3
ART 269	Advanced Computer-Based Illustration	3
ART 272	Digital Imaging II	3
BMGT 110	Introduction to Business	3
or BUSA 111	Introduction to Business	
BMGT 210	Marketing	3
or MKTG 203	Introduction to Marketing	
C S 110	Computer Literacy	3
CMT 115	Digital Photography and Imaging I	3
CMT 190	Digital Video Production I	3
CMT 223	Media Production Services	3
Total Credits		61

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 (p. 20) of the catalog for a full list of courses.

A Suggested Plan of Study - Graphic Design

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

Course	Title	Credits
First Year Fall		
ART 101G	Orientation in Art	3
ART 155	2-D Fundamentals	3
ART 161 or CMT 145	Digital Imaging I or Image Processing I	3
C S 110	Computer Literacy	3
ENGL 111G	Rhetoric and Composition	4
	Credits	16
Spring		
ART 150	Drawing I	3
ART 272	Digital Imaging II	3
CMT 190	Digital Video Production I	3
COMM 265G	Principles of Human Communication	3
PSY 201G	Introduction to Psychology	3
	Credits	15
Second Year		
Fall		
ART 160 or CMT 142	Computer-Based Illustration or Computer Illustration	3
ART 163 or CMT 140	Digital Graphics or Print Media I	3
BMGT 110 or BUSA 111	Introduction to Business or Introduction to Business	3
CMT 115	Digital Photography and Imaging I	3
Select one course t	from Area II, III, or V ¹	3-4
	Credits	15
Spring		
ART 165 or CMT 130	Web Page Design or Introduction to Web Design	3
ART 267	Art Portfolio Preparation	3
ART 269	Advanced Computer-Based Illustration	3
BMGT 210 or MKTG 203	Marketing or Introduction to Marketing	3
CMT 223	Media Production Services	3
	Credits	15
	Total Credits	61

¹ See the General Education Section (p. 20) of the catalog for a full list of courses.

Information Technology

The Associate of Applied Science degree in Information Technology is designed to provide training and skills required for employment in the Information Technology (IT) career field. Employment for IT is available from the expanding computer service industry. This industry is one of the nation's fastest growing employment industries. Information technologists install, maintain, administer, and manage a computer network. This degree focuses on networking fundamentals such as network communication devices and protocols, network operating systems, personal computer (PC) hardware and software principles, PC and network security, support center operations and database management tools.

All Information Technology majors are required to complete an internship program within the sophomore year. The Network Operating Systems courses (I, II, III) **must be completed** in numerical order.

Students may apply the associate's degree coursework to a bachelor's degree in Information and Communication Technology (ICT) offered at the Las Cruces campus. The Bachelor of Information and Communication Technology is available through the College of Distance Education from the Las Cruces campus. Most of the coursework can be completed through electronic classes with few visits to the Las Cruces campus. More information is available in the Advising Office.

Information Technology - Associate of Applied Science (p. 101)

Career & Technology Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Cathy Aguilar-Morgan

Administrative Assistant: Michelle Nelson

Office Location: Science Center

Phone: 575.439.3761

eMail: ctNMSUA@nmsu.edu (ctnmsua@nmsu.edu)

Website: http://nmsua.edu/career-and-technology/

Information Technology - Associate of Applied Science

All Information Technology majors are required to complete a 1-credit internship program within the sophomore year. The Network Operating Systems courses (I, II, III) **must be completed** in numerical order.

A grade of C- or better is required in all courses.

Total Credits Required for Degree: 65

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 65 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education Requirements		
Select one course fr a total of 12-14 cred	om four of the following six content areas for its. ^{1, 2}	12-14
This degree require	s courses from Areas I, II, III, and IV.	
Area I: Commun	ication	
ENGL 111G	Rhetoric and Composition (Core Requirement)	
Area II: Mathema		
MATH 121G	College Algebra (Core Requirement) ³	
Area III: Laborate	ory Science (Core Requirement) ⁴	
Select one from	the following:	
ASTR 105G	The Planets	
ASTR 110G	Introduction to Astronomy	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
CHEM 110G	Principles and Applications of Chemistry	
GEOL 111G	Introductory Geology	
PHYS 110G	The Great Ideas of Physics	
PHYS 211G & 211GL	General Physics I and General Physics I Laboratory	
Area IV: Social/B	Sehavioral Sciences	
SOC 101G	Introductory Sociology (Core Requirement)	
or PSY 201G	Introduction to Psychology	
Area V: Humanit		
Area VI: Creative	/Fine Arts	
General Education E	lective	
COMM 265G	Principles of Human Communication	3
Core Degree Requir	rements	
ET104	Soldering Techniques	1
E T 120	Computation Software	3
E T 153	Introduction to Computer Networks	3
E T 155	Network Operating Systems I	3
E T 156	Introduction to Information Security	2
E T 182	Digital Logic	3
E T 220	Internship	1
E T 253	Networking Operating Systems II	3
E T 256	Networking Operating Systems III	3
E T 262	Software Technology I	3
E T 273	Fundamentals of Networking	4
E T 283	Communications I Hardware PC Maintenance	3
E T 283	Software PC Maintenance	
		3
E T 285	Advanced Information Security	3
E T 286	Information Security Certification Preparation	4
E T 291	PC Forensics and Investigation	3
OECS 220	Database Application and Design	3
Total Credits		65

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 (p. 20) of the catalog for a full list of courses.
- ³ MATH 121G College Algebra is required for the degree but students may need to take prerequisites to enter the course.
- ⁴ Check with ET faculty advisor for recommended science course.

A Suggested Plan of Study - Information Technology

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

Course First Year	Title	Credits
Fall		
E T 104	Soldering Techniques	1
ET120	Computation Software	3
E T 153	Introduction to Computer Networks	3
E T 156	Introduction to Information Security	2
ENGL 111G	Rhetoric and Composition	4
MATH 121G	College Algebra	3
	Credits	16
Spring		
COMM 265G	Principles of Human Communication	3
E T 155	Network Operating Systems I	3
E T 182	Digital Logic	3
0ECS 220	Database Application and Design	3
Select one from the	e following: ¹	4
ASTR 105G	The Planets	
ASTR 110G	Introduction to Astronomy	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
CHEM 110G	Principles and Applications of Chemistry	
GEOL 111G	Introductory Geology	
PHYS 110G	The Great Ideas of Physics	
PHYS 211G & 211GL	General Physics I and General Physics I Laboratory	
	Credits	16
Second Year		
Fall		
E T 253	Networking Operating Systems II	3
ЕТ 273	Fundamentals of Networking Communications I	4
E T 283	Hardware PC Maintenance	3
E T 285	Advanced Information Security	3
E T 291	PC Forensics and Investigation	3
	Credits	16
Spring		
E T 220	Internship	1
E T 256	Networking Operating Systems III	3
E T 262	Software Technology I	3
E T 284	Software PC Maintenance	3

E T 286	Information Security Certification Preparation	4
SOC 101G or PSY 201G	Introductory Sociology or Introduction to Psychology	3
	Credits	17
	Total Credits	65

Check with ET faculty advisor for recommended science course.

Online Degrees/Certificates

New Mexico State University Alamogordo has a strong online education initiative including online degree programs. There are also many additional courses offered online. All courses offered in either the online or hybrid format have gone through an extensive review utilizing the Quality Matters[™] Specific Review Standards. In addition, all faculty teaching online courses have had training specific to the theory of online education.

Our online courses are engaging and high quality. They prepare students to continue their education or to enter the workforce.

The online programs at NMSU-A allow students to complete their education anywhere in the world.

Course options are available in all online programs so there is never a need to attend a face-to-face class on campus. There may be synchronous sessions, but those will always be virtual and identified at the beginning of the course.

Start at NMSU-A with an Associate of Arts, a Criminal Justice Associate, or a PreBusiness Associate degree and continue with 100% online programs at NMSU Online to earn a bachelor's degree.

NMSU-A currently offers the following degrees 100% online:

- Arts, Associate Degree (p. 71)
- Business Management (Accounting/Bookkeeping), Associate of Applied Science Degree (p. 75)
- Business Management (Administrative Support), Associate of Applied Science Degree (p. 76)
- Business Management (General Management), Associate of Applied Science Degree (p. 77)
- Criminal Justice, Associate Degree (p. 81)
- Leadership Skills, Certificate (p. 79)
- · Legal Assistant, Certificate (p. 103)
- Paralegal Studies, Associate of Applied Science Degree (p. 104)
- Prebusiness, Associate Degree (p. 106)
- Science, Associate Degree (p. 110)

Online Degrees/Certificates

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Director of Online Quality Assurance: Sherrell Wheeler

Administrative Assistant: Dona Sennett

Office Location: Learning Technology Center

Phone: 575.439.3668

eMail: swheeler@nmsu.edu

Website: http://nmsua.edu/online-education/

Paralegal Studies

The Paralegal Studies program prepares students for careers in the legal profession. Paralegals are skilled professionals who perform substantive legal tasks under the supervision of a licensed attorney. While paralegals typically do not provide legal services directly to the public, paralegal responsibilities can include interviewing and assisting clients and witnesses, conducting investigation and data analysis, drafting legal documents, researching legal issues as well as supporting litigation efforts.

The Paralegal Studies program offers a 61 credit program for an Associates of Applied Science degree in Paralegal Studies as well as a 29 credit program for a Legal Assistant Certificate. Both programs prepare students for careers in the legal profession. The Legal Assistant Certificate prepares students in basic legal office skills. Upon completion of the Legal Assistant Certificate program, students may enter the career field or apply their courses to an Associates of Applied Science degree in Paralegal Studies.

Upon completion of the Legal Assistant Certificate program, students may enter the career field and prepare to take Certified Paralegal Exam offered by the National Association of Legal Assistants. Successful completion of that exam and one year of substantive law-related experience under the supervision of a licensed attorney qualifies the graduate as a paralegal under Rule 20-115(E) of the New Mexico Rules Governing Paralegal Service. The NALA certification is also accepted is many other states.

Paralegal Studies - Associate of Applied Science (p. 104)

Legal Assistant - Certificate (p. 103)

Arts and Sciences Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Dr. David C. MacWilliams

Administrative Assistant: Theresa Chavez

Office Location: Pro-Tech 122C.

Phone: 575.439.3670

eMail: asNMSUA@nmsu.edu (asnmsua@nmsu.edu)

Website:

http://nmsua.edu/arts-and-sciences/

Legal Assistant - Certificate

The Legal Assistant Certificate prepares students in basic legal office skills. The courses apply to the Associate Degree in Paralegal Studies.

Gainful Employment Disclosure: At public and private not-for-profit institutions, gainful employment programs are Title IV-eligible certificate programs. Effective July 1, 2011, the U.S. Department of Education requires schools with Gainful Employment programs to disclose certain information about these programs. This information can be found at http://nmsua.edu/gainful-employment-disclosures/.

A grade of C- or better is required in all courses.

Total Credits Required for Certificate: 29

Prefix	Title	Credits
ACCT 221	Principles of Accounting I (Financial)	3
or ACCT 200	A Survey of Accounting	
BOT 213	Word Processing I	3
COLL 101	College/Life Success	1
COMM 265G	Principles of Human Communication	3
or COMM 253G	Public Speaking	
ENGL 111G	Rhetoric and Composition	4
PL S 160	Legal System for the Paralegal	3
PL S 190	Criminal Law for the Paralegal	3
or C J 205	Criminal Law	
PL S 200	Legal Ethics for the Paralegal	3
PL S 274	Legal Research and Writing for the Paralegal I	3
Select one from the	e following:	3
BOT 106	Business Mathematics	
MATH 120	Intermediate Algebra	
MATH 121G	College Algebra	
Total Credits		29

A Suggested Plan of Study - Legal **Assistant Certificate**

Course	Title	Credits
First Year		
Fall		
ACCT 221 or ACCT 200	Principles of Accounting I (Financial) or A Survey of Accounting	3
COLL 101	College/Life Success	1
COMM 265G or COMM 253G	Principles of Human Communication or Public Speaking	3
ENGL 111G	Rhetoric and Composition	4
PL S 160	Legal System for the Paralegal	3
	Credits	14

Spring		
BOT 213	Word Processing I ((Keyboarding proficiency required))	3
PL S 190 or C J 205	Criminal Law for the Paralegal or Criminal Law	3
PL S 200	Legal Ethics for the Paralegal	3
PL S 274	Legal Research and Writing for the Paralegal I	3
Choose one from	the following:	3
BOT 106	Business Mathematics	
MATH 120	Intermediate Algebra	
MATH 121G	College Algebra	
	Credits	15
	Total Credits	29

Paralegal Studies - Associate of Applied Science

PL S courses, even with the same title, will not replace or substitute for Criminal Justice courses on the Criminal Justice degree plan.

A grade of C- or better is required in all courses.

Total Credits Required for the Degree: 61

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education I	Requirements	
Select one course fro a total of 12-14 cred	om four of the following six content areas for its. ^{1, 2}	12-14
must select one oth	s courses from Areas I, IV, and V; students her course from the remaining areas to ducation requirements.	
Area I: Communi	cations	
ENGL 111G	Rhetoric and Composition (Core Requirement)	
Area II: Mathema	atics	
Area III: Laborato	bry Science	
Area IV: Social/B	ehavioral Sciences	
GOVT 100G	American National Government (Core Requirement)	
Area V: Humaniti	es	
PHIL 101G or PHIL 201G	The Art of Wondering (Core Requirement) Introduction to Philosophy	
or PHIL 211G	Informal Logic	
Area VI: Creative	/Fine Arts	
General Education E	lective	
COMM 265G	Principles of Human Communication	3
or COMM 253G	Public Speaking	
Core Degree Requir	ements	
ACCT 221	Principles of Accounting I (Financial)	3

or ACCT 200	A Survey of Accounting	
BOT 213	Word Processing I	3
COLL 101	College/Life Success	1
ENGL 203G	Business and Professional Communication	3
or ENGL 211G	Writing in the Humanities and Social Sciences	
PL S 160	Legal System for the Paralegal	3
PL S 190	Criminal Law for the Paralegal	3
or C J 205	Criminal Law	
PL S 200	Legal Ethics for the Paralegal	3
PL S 221	Internship I ³	2-4
PL S 231	The Law of Commerce for the Paralegal	3
PL S 274	Legal Research and Writing for the Paralegal I	3
PL S 275	Tort and Insurance for the Paralegal	3
or PL S 276	Wills, Trusts, and Probate for the Paralegal	
PL S 278	Litigation for the Paralegal	3
PL S 279	Legal Research and Writing for the Paralegal II	3
PSY 201G	Introduction to Psychology	3
or BMGT 240	Human Relations	
or SOC 101G	Introductory Sociology	
Paralegal Electives		
Select from the follo	owing:	6
C J 250	Courts and the Criminal Justice System	
PL S 203	Immigration Law	
PL S 222	Internship II ³	
PL S 277	Family Law for the Paralegal	

Total Credits

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 (p. 20) of the catalog for a full list of courses.

61

³ A maximum of 6 credits of PL S 221 or PL S 222 may be applied toward a degree.

A Suggested Plan of Study - Paralegal Studies

Course First Year	Title	Credits
Fall		
ACCT 221 or ACCT 200	Principles of Accounting I (Financial) or A Survey of Accounting	3
COLL 101	College/Life Success	1
COMM 253G or COMM 265G	Public Speaking or Principles of Human Communication	3
ENGL 111G	Rhetoric and Composition	4
GOVT 100G	American National Government	3

PL S 160	Legal System for the Paralegal	3
	Credits	17
Spring		
BOT 213	Word Processing I	3
PL S 190 or C J 205	Criminal Law for the Paralegal or Criminal Law	3
PL S 200	Legal Ethics for the Paralegal	3
PL S 274	Legal Research and Writing for the Paralegal I	3
Select one course f	from Area II, III, or VI ¹	3-4
	Credits	15
Second Year		
Fall		
PHIL 101G or PHIL 201G or PHIL 211G	The Art of Wondering or Introduction to Philosophy or Informal Logic	3
PL S 221	Internship I	2-4
PL S 231	The Law of Commerce for the Paralegal	3
PL S 275 or PL S 276	Tort and Insurance for the Paralegal or Wills, Trusts, and Probate for the Paralegal	3
Elective Course ²		3
	Credits	14
Spring		
ENGL 203G or ENGL 211G	Business and Professional Communication or Writing in the Humanities and Social Sciences	3
PL S 278	Litigation for the Paralegal	3
PL S 279	Legal Research and Writing for the Paralegal II	3
PSY 201G or BMGT 240 or SOC 101G	Introduction to Psychology or Human Relations or Introductory Sociology	3
Elective Course ²		3
	Credits	15
	Total Credits	61

¹ See the General Education Section (p. 20) of the catalog for a full list of courses.

² Select from C J 250, PL S 203, PL S 222, or PL S 277.

Photographic Technology

This program is designed to provide course work that will prepare students to work in the photographic field. The courses required for the Certificate in Photographic Technology provide a variety of necessary skills for photography enthusiasts. The primary focus in on training students in professional level digital photography and the use of Adobe Photoshop. The university has a professionally equipped photo studio that supports instruction in studio portraiture and product photography. A course in black and white film photography provides an understanding of photographic traditions. Recipients of this certificate will be better prepared to seek positions in industry, business, or private enterprise, or to enhance an active amateur career. Photographic Technology - Certificate (p. 105)

Arts and Sciences Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Dr. David C. MacWilliams

Administrative Assistant: Theresa Chavez

Office Location: Pro-Tech 122C.

Phone: 575.439.3670

eMail:

asNMSUA@nmsu.edu (asnmsua@nmsu.edu)

Website:

http://nmsua.edu/arts-and-sciences/

Photographic Technology -Certificate

The Photographic Technology certificate is designed to prepare students for immediate entry into the job market in a broad range of industries.

Gainful Employment Disclosure: At public and private not-for-profit institutions, gainful employment programs are Title IV-eligible certificate programs. Effective July 1, 2011, the U.S. Department of Education requires schools with Gainful Employment programs to disclose certain information about these programs. This information can be found at http://nmsua.edu/gainful-employment-disclosures/.

Total Credits Required for Certificate: 28

Prefix	Title	Credits
ART 101G	Orientation in Art	3
ART 161	Digital Imaging I	3
ART 272	Digital Imaging II	3
CMT 115	Digital Photography and Imaging I	3
CMT 216	Digital Photography and Imaging II	3
COLL 101	College/Life Success	1
ENGL 111G	Rhetoric and Composition	4
OEPT 100	Photographics I	3
0EPT 120	Photo Finishing and Presentation	2
0EPT 155	Portraiture	3
Total Credits		28

Camera Requirements

A digital SLR camera of at least 10 mpx and a 35mm SLR film camera with manual controls are required for this certificate. Other miscellaneous accessories and materials are required. A list is available from the photography instructor upon request.

A Suggested Plan of Study - Photographic Technology Certificate

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

Course	Title	Credits
First Year		
Fall		
ART 161	Digital Imaging I	3
CMT 115	Digital Photography and Imaging I	3
COLL 101	College/Life Success	1
	Credits	7
Spring		
ART 101G	Orientation in Art	3
ART 272	Digital Imaging II	3
OEPT 100	Photographics I	3
	Credits	9
Second Year		
Fall		
CMT 216	Digital Photography and Imaging II	3
0EPT 155	Portraiture	3
	Credits	6
Spring		
ENGL 111G	Rhetoric and Composition	4
0EPT 120	Photo Finishing and Presentation	2
	Credits	6
	Total Credits	28

Prebusiness

Students who earn this degree will have completed the first two years of any four-year business degree offered at the NMSU Las Cruces campus. This program provides the basics in accounting and economics. Students should see an Academic Advisor for bachelor's degree requirements. Students must meet the basic skills requirement in English and math and have sophomore status prior to admission to junior-level courses on the Las Cruces campus. Transfer students may take one semester upper division courses if they have 45 or more transfer credits. After that they must meet the basic skills requirements.

A Bachelor of Business Administration in General Business is available through the College of Distance Education from the Las Cruces campus. Some courses require a visit to the Las Cruces campus; however, most of the classes use electronic means for delivery. Check with an advisor for more information.

Note: Business course credits completed more than ten years prior to the degree application may be reviewed at the student's request by the course department head and dean (or a designee) to determine their continued suitability to satisfy current degree, major and minor requirements and learning objectives.

Prebusiness - Associate Degree (p. 106)

Career & Technology Division

New Mexico State University Alamogordo

2400 N. Scenic Drive Alamogordo, NM 88310

Division Head Cathy Aguilar-Morgan

Administrative Assistant: Michelle Nelson

Office Location: Science Center

Phone: 575.439.3761

eMail:

ctNMSUA@nmsu.edu (ctnmsua@nmsu.edu)

Website:

http://nmsua.edu/career-and-technology/

Prebusiness - Associate Degree

The only courses that may be taken under the S/U option are electives.

A grade of C- or better required in General Education communications course and ECON 251G and 252G.

Total Credits Required for Degree: 60

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education	Requirements	
Area I: Communicati	ons	
English Composition	Level I	
ENGL 111G	Rhetoric and Composition	4
English Composition	Level II	
ENGL 203G	Business and Professional Communication	3
Oral Communication		
COMM 265G	Principles of Human Communication	3
or COMM 253G	Public Speaking	
Area II: Mathematics	3	
MATH 121G	College Algebra ¹	3
Areas III/IV: Laborate	ory Science and Social/Behavioral Sciences	10
ECON 251G		
ECON 252G	Principles of Microeconomics ²	
Select one cours credits) ³	e from Area III: Laboratory Science (4	
Area V: Humanities		
Select one course f	rom Area V: Humanities. ³	3
Area VI: Creative/Fin	e Arts	
Select one course f	rom Area VI: Creative/Fine Arts ³	3
General Education E	lective	

MATH 142G	Calculus for the Biological and Management Sciences	3
Core Degree Req	uirements	
ACCT 221	Principles of Accounting I (Financial)	3
ACCT 222	Principles of Accounting II (Managerial) ⁴	3
BCIS 110	Fundamentals of Information Literacy and Systems	3
BUSA 111	Introduction to Business	3
STAT 251G	Statistics for Business and the Behavioral Sciences	3
Electives, to bring the total credits to 60 5		13
Total Credits		60

MATH 121G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 121G first.

- ² ECON should not be taken by beginning freshmen or students without algebra skills.
- ³ See the General Education Section (p. 20) of the catalog for a full list of courses.
- ⁴ ACCT recommended for Sophomore year.
- ⁵ Elective credit may vary based on General Education course selection, second language requirements, prerequisites, dual credit, A credit, double majors and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

A Suggested Plan of Study - PreBusiness

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

Course First Year	Title	Credits
First Year Fall		
BCIS 110	Fundamentals of Information Literacy and Systems	3
COMM 265G or COMM 253G	Principles of Human Communication or Public Speaking	3
ENGL 111G	Rhetoric and Composition	4
Select one course f	from Area VI: Creative/Fine Arts ¹	3
Elective Course ²		3
	Credits	16
Spring		
ENGL 203G	Business and Professional Communication	3
MATH 121G	College Algebra ³	3
Select one course f	from Area V: Humanities ¹	3
Elective Courses ²		7
	Credits	16
Second Year		
Fall		
ACCT 221	Principles of Accounting I (Financial)	3
BUSA 111	Introduction to Business	3

ECON 251G	Principles of Macroeconomics	3
MATH 142G	Calculus for the Biological and Management Sciences	3
Select one course	e from Area III: Laboratory Science ¹	4
	Credits	16
Spring		
ACCT 222	Principles of Accounting II (Managerial)	3
ECON 252G	Principles of Microeconomics	3
STAT 251G	Statistics for Business and the Behavioral Sciences	3
Elective Course ²		3
	Credits	12
	Total Credits	60

¹ See the General Education Section (p. 20) of the catalog for a full list of courses.

- ² Elective credit may vary based on General Education course selection, second language requirements, prerequisites, dual credit, A credit, double majors and/or minor 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.
- ³ MATH 121G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 121G first.

Renewable Energy Systems Technology

The Associate of Applied Science degree in Renewable Energy Systems Technology is designed for students who intend to enter the alternative energy career field.

The Photo Voltaic (PV) Entry Level Grid Tie Certificate is designed for students who intend to enter the alternative energy workforce or for home owners desiring to install their own residential PV systems.

The Advanced Renewable Energy Systems Certificate is designed for students who intend to become familiar with different aspects of the renewable energy industry. The certificate course work provides the fundamental knowledge of wind power, solar thermal hot water systems, building weatherization and auditing, and renewable energy system troubleshooting.

Renewable Energy Systems Technology - Associate of Applied Science (p. 109)

Photo Voltaic Entry Level Grid-Tie - Certificate (p. 108)

Advanced Renewable Energy Systems - Certificate (p. 108)

Career & Technology Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Cathy Aguilar-Morgan

Administrative Assistant: **Michelle Nelson**

Office Location: Science Center

Phone: 575.439.3761

eMail: ctNMSUA@nmsu.edu (ctnmsua@nmsu.edu)

Website: http://nmsua.edu/career-and-technology/

Advanced Renewable Energy **Systems - Certificate**

The Advanced Renewable Energy Systems Certificate is designed for students who intend to become familiar with different aspects of the renewable energy industry. The certificate course work provides the fundamental knowledge of wind power, solar thermal hot water systems, building weatherization and auditing, and renewable energy system troubleshooting.

Gainful Employment Disclosure: At public and private not-for-profit institutions, gainful employment programs are Title IV-eligible certificate programs. Effective July 1, 2011, the U.S. Department of Education requires schools with Gainful Employment programs to disclose certain information about these programs. This information can be found at http://nmsua.edu/gainful-employment-disclosures/.

A grade of C- or better is required in all TCEN courses.

Total Credits Required for Certificate: 19

Prefix	Title	Credits
TCEN 115	Wind Power Generation Design Fundamentals	3
TCEN 221	Roofing Materials and Methods	3
TCEN 241	Solar Thermal SHW Principles/ Installation and Maintenance	3
TCEN 246	Building Weatherization & Auditor Fundamentals	3
TCEN 251	Advanced Photo Voltaic On/Off Grid Installation	3
TCEN 252	NABCEP Entry-Level Exam Review	2
TCEN 254	Renewable Energy Internship	2
Total Credits		19

Total Credits

A Suggested Plan of Study - Advanced **Renewable Energy Systems Certificate**

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

Course	Title	Credits
First Year		
Fall		
TCEN 221	Roofing Materials and Methods ¹	3

TCEN 251	Advanced Photo Voltaic On/Off Grid Installation ¹	3
TCEN 254	Renewable Energy Internship	2
	Credits	8
Spring		
TCEN 115	Wind Power Generation Design Fundamentals	3
TCEN 241	Solar Thermal SHW Principles/ Installation and Maintenance ¹	3
TCEN 246	Building Weatherization & Auditor Fundamentals ¹	3
TCEN 252	NABCEP Entry-Level Exam Review	2
	Credits	11
	Total Credits	19

Check for course pre-requisites

Photo Voltaic Entry Level - Grid Tie -Certificate

The Photo Voltaic (PV) Entry Level Grid Tie Certificate is designed for students who intend to enter the alternative energy workforce or for home owners desiring to install their own residential PV systems.

Gainful Employment Disclosure: At public and private not-for-profit institutions, gainful employment programs are Title IV-eligible certificate programs. Effective July 1, 2011, the U.S. Department of Education requires schools with Gainful Employment programs to disclose certain information about these programs. This information can be found at http://nmsua.edu/gainful-employment-disclosures/.

A grade of C- or better is required in all TCEN courses.

Total Credits Required for Certificate: 21

Prefix	Title	Credits
OEEM 101	CPR for the Health Care Professional	1
TCEN 111	Basic Electrical Principles I, DC Circuits	4
TCEN 112	PV Power Generation Design Fundamentals	3
TCEN 113	OSHA 10 Hour Construction Hazard Identifications	1
TCEN 121	Basic Electrical Principles II, AC Circuits	4
TCEN 222	Photo Voltaic Grid Tie Installation	4
TCEN 223	Photo Voltaic National Electrical Code Principles	2
TCEN 252	NABCEP Entry-Level Exam Review	2
Total Credits		21

Total Credits

A Suggested Plan of Study - Photo Voltaic **Entry Level Grid-Tie Certificate**

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

Course First Year	Title	Credits
Fall		
OEEM 101	CPR for the Health Care Professional	1
TCEN 111	Basic Electrical Principles I, DC Circuits ¹	4
TCEN 112	PV Power Generation Design Fundamentals ¹	3
TCEN 113	OSHA 10 Hour Construction Hazard Identifications	1
	Credits	9
Spring		
TCEN 121	Basic Electrical Principles II, AC Circuits ¹	4
TCEN 222	Photo Voltaic Grid Tie Installation ¹	4
TCEN 223	Photo Voltaic National Electrical Code Principles ¹	2
TCEN 252	NABCEP Entry-Level Exam Review	2
	Credits	12
	Total Credits	21

¹ Check for course pre-requisites.

Renewable Energy Systems Technology - Associate of Applied Science

A grade of C- or better is required in all courses.

Total Credits Required for Degree: 63

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 63 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education	Requirements	
Select one course f a total of 12-14 cre	from four of the following six content areas for dits. ^{1, 2}	12-14
must select one of	es courses from Areas I, II, and III; students ther course from the remaining areas to Education requirements.	
Area I: Commu	nications	
COMM 253G	Public Speaking (Core Requirement)	
or COMM 26	5GPrinciples of Human Communication	
Area II: Mathem	natics	
MATH 121G	College Algebra (Core Requirement) 3	
Area III: Labora	tory Science	
CHEM 110G	Principles and Applications of Chemistry	
or PHYS 110	IG The Great Ideas of Physics	
Area IV: Social/	Behavioral Sciences	
Area V: Humani	ties	
Area VI: Creativ	e/Fine Arts	
General Education	Elective	

E S 110G	Introductory Environmental Science (Core Requirement)	4
Core Degree Requi	rements	
E T 125	Introduction to Renewable Energy	3
OEEM 101	CPR for the Health Care Professional	1
OETS 120	Business Fundamentals	3
TCEN 111	Basic Electrical Principles I, DC Circuits	4
TCEN 112	PV Power Generation Design Fundamentals	3
TCEN 113	OSHA 10 Hour Construction Hazard Identifications	1
TCEN 115	Wind Power Generation Design Fundamentals	3
TCEN 121	Basic Electrical Principles II, AC Circuits	4
TCEN 221	Roofing Materials and Methods	3
TCEN 222	Photo Voltaic Grid Tie Installation	4
TCEN 223	Photo Voltaic National Electrical Code Principles	2
TCEN 241	Solar Thermal SHW Principles/ Installation and Maintenance	3
TCEN 246	Building Weatherization & Auditor Fundamentals	3
TCEN 251	Advanced Photo Voltaic On/Off Grid Installation	3
TCEN 252	NABCEP Entry-Level Exam Review	2
	Renewable Energy Internship ⁴	4

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 (p. 20) of the catalog for a full list of courses.

³ MATH 121G College Algebra is required for the degree but students may need to take prerequisites to enter the course.

⁴ Taken twice for a total of 4 credits.

A Suggested Plan of Study - Renewable Energy Systems Technology

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

Course First Year	Title	Credits
Fall		
ET125	Introduction to Renewable Energy	3
MATH 121G	College Algebra ¹	3
OEEM 101	CPR for the Health Care Professional	1
TCEN 111	Basic Electrical Principles I, DC Circuits	4
TCEN 112	PV Power Generation Design Fundamentals	3
TCEN 113	OSHA 10 Hour Construction Hazard Identifications	1
	Credits	15

Spring

Spring		
OETS 120	Business Fundamentals	3
TCEN 115	Wind Power Generation Design Fundamentals	3
TCEN 121	Basic Electrical Principles II, AC Circuits	4
TCEN 222	Photo Voltaic Grid Tie Installation	4
TCEN 223	Photo Voltaic National Electrical Code Principles	2
	Credits	16
Second Year		
Fall		
CHEM 110G or PHYS 110G	Principles and Applications of Chemistry or The Great Ideas of Physics	4
COMM 253G or COMM 265G	Public Speaking or Principles of Human Communication	3
TCEN 221	Roofing Materials and Methods	3
TCEN 251	Advanced Photo Voltaic On/Off Grid Installation	3
TCEN 254	Renewable Energy Internship	2
	Credits	15
Spring		
E S 110G	Introductory Environmental Science	4
TCEN 241	Solar Thermal SHW Principles/ Installation and Maintenance	3
TCEN 246	Building Weatherization & Auditor Fundamentals	3
TCEN 252	NABCEP Entry-Level Exam Review	2
TCEN 254	Renewable Energy Internship	2
Select one course f	from either Area IV, V, or VI ²	3
	Credits	17
	Total Credits	63

¹ MATH 121G College Algebra is required for the degree but students may need to take prerequisites to enter the course.

² See the General Education Section (p. 20) of the catalog for a full list of courses.

Science

The Associate of Science degree represents the completion of the first two years of several bachelor's degree programs related to the sciences. In order to be awarded an Associate of Science degree, the student must earn at least 16 credits in laboratory sciences and additional elective credits in Math and Science G courses or Engineering courses to meet 60 credits.

For easier transition into baccalaureate science majors at New Mexico State University, laboratory science and elective courses are recommended for the interest areas of Biology, Environmental Science, Geology, and Wildlife Science.

Science - Associate Degree (p. 110)

Arts and Sciences Division

New Mexico State University Alamogordo 2400 N. Scenic Drive

Alamogordo, NM 88310

Division Head: Dr. David C. MacWilliams

Administrative Assistant:

Theresa Chavez Office Location: Pro-Tech 122C.

Phone: 575.439.3670

eMail:

asNMSUA@nmsu.edu (asnmsua@nmsu.edu)

Website:

http://nmsua.edu/arts-and-sciences/

Science - Associate Degree

Note: Some classes are only offered in a particular semester and may have prerequisites.

A grade of C- or better is required for all courses.

Total Credits Required for Degree: 60

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education	Requirements	
Area I: Communicati	ons	
English Composition	n - Level 1	
ENGL 111G	Rhetoric and Composition	4
English Composition	n - Level 2	
ENGL 218G	Technical and Scientific Communication	3
or ENGL 211G	Writing in the Humanities and Social Science	es
Oral Communication		
COMM 265G	Principles of Human Communication	3
or COMM 253G	Public Speaking	
Area II: Mathematics	3	
Choose one from th	ne following:	3-4
MATH 121G	College Algebra ¹	
MATH 190G	Trigonometry and Precalculus ¹	
MATH 191G	Calculus and Analytic Geometry I ¹	
Areas III/IV: Laborat	ory Science and Social/Behavioral Sciences	10
CHEM 111G	General Chemistry I (Core Requirement)	
ECON 251G	Principles of Macroeconomics (Core Requirement)	
Select one addit Behavioral Scien	ional course from Area IV: Social/ Ices ²	
Area V: Humanities		
Select one course f Education list. ²	rom Area V: Humanities of the General	3

Area VI: Creative/Fine Arts	
Select one course from Area VI: Creative/Fine Arts of the General Education list. $^{\rm 2}$	3
General Education Elective	
Select one course from any area of the General Education list. 2	3-4
Core Degree Requirements	
Select 12 additional credits of Laboratory Science courses, to bring the total Laboratory science requirements to 16 credits 3	12
This degree requires CHEM 111G and the course will satisfy both the General Education and Core Requirements	
Electives, to bring the total credits to 60	
Select from Area II: Mathematics or Area III: Laboratory Science or from Engineering. ⁴	15-16
Total Credits	60

- 1 MATH 121G College Algebra, MATH 190G Trigonometry and Precalculus, or MATH 191G Calculus and Analytic Geometry I is required for the degree but students may need to take prerequisites to enter the course.
- 2 See the General Education Section (p. 20) of the catalog for a full list of courses.
- 3 It is strongly recommended to follow recommendations below for guidance in lab science and elective choices. Additional approved lab science classes can be found in Area III of the General Education Course (p. 20) list. Work with advisor to select appropriate courses to support the chosen bachelor's degree program.
- 4 Elective credit may vary based on General Education course selection, second language requirements, prerequisites, dual credit, AP credit, double majors and/or minor 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.

Recommended Courses for Students Pursuing Biology

Prefix	Title	Credits
BIOL 111G & 111GL	Natural History of Life and Natural History of Life Laboratory	4
BIOL 211G & 211GL	Cellular and Organismal Biology and Cellular and Organismal Biology Laboratory	4
CHEM 112G	General Chemistry II	4
MATH 191G	Calculus and Analytic Geometry I	4
MATH 192G	Calculus and Analytic Geometry II	4
PHYS 211G & 211GL	General Physics I and General Physics I Laboratory	4
PHYS 212G & 212GL	General Physics II and General Physics II Laboratory	4

Recommended Courses for Students Pursuing Environmental Science

Prefix	Title	Credits
BIOL 111G	Natural History of Life	4
& 111GL	and Natural History of Life Laboratory	

BIOL 211G & 211GL	Cellular and Organismal Biology and Cellular and Organismal Biology Laboratory	4
CHEM 112G	General Chemistry II	4
CHEM 211	Organic Chemistry	4
E S 110G	Introductory Environmental Science	4
GEOL 111G	Introductory Geology	4
MATH 191G	Calculus and Analytic Geometry I	4
MATH 192G	Calculus and Analytic Geometry II	4
PHYS 215G & 215GL	Engineering Physics I and Engineering Physics I Laboratory	4

Recommended Courses for Students Pursuing Geology

Prefix	Title	Credits
BIOL 111G & 111GL	Natural History of Life and Natural History of Life Laboratory	4
GEOL 111G	Introductory Geology	4
GEOG 120G	Culture and Environment	3
CHEM 112G	General Chemistry II	4
MATH 191G	Calculus and Analytic Geometry I	4
MATH 192G	Calculus and Analytic Geometry II	4
PHYS 211G & 211GL	General Physics I and General Physics I Laboratory	4
PHYS 212G & 212GL	General Physics II and General Physics II Laboratory	4

Recommended Courses for Students Pursuing Wildlife Science

Prefix	Title	Credits
BIOL 111G & 111GL	Natural History of Life and Natural History of Life Laboratory	4
BIOL 211G & 211GL	Cellular and Organismal Biology and Cellular and Organismal Biology Laboratory	4
BIOL 221 & 221 L	Introductory Microbiology and Introductory Microbiology Laboratory	4
CHEM 112G	General Chemistry II	4
FWCE 110G	Introduction to Natural Resources Management	4
FWCE 255	Principles of Fish and Wildlife Management	3
GEOL 111G	Introductory Geology	4
MATH 142G	Calculus for the Biological and Management Sciences	3-4
or MATH 191G	Calculus and Analytic Geometry I	
PHYS 110G or PHYS 211G & 211GL	The Great Ideas of Physics General Physics I and General Physics I Laboratory	4

A Suggested Plan of Study - Science

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

Course First Year Fall	Title	Credits
CHEM 111G	General Chemistry I	4
ENGL 111G	Rhetoric and Composition	4
Choose one from th	e following:	3-4
MATH 121G	College Algebra ¹	
MATH 190G	Trigonometry and Precalculus ¹	
MATH 191G	Calculus and Analytic Geometry I ¹	
Laboratory Science	Course ²	4
	Credits	15
Spring		
COMM 253G or COMM 265G	Public Speaking or Principles of Human Communication	3
Elective Course ³		4
Laboratory Science	Course ²	4
Area IV: Social/Beha	avioral Sciences Course ⁴	3
	Credits	14
Second Year		
Fall		
ECON 251G	Principles of Macroeconomics	3
Elective Course ³		4
ENGL 218G or ENGL 211G	Technical and Scientific Communication or Writing in the Humanities and Social Sciences	3
Area V: Humanities	Course ⁴	3
Laboratory Science	Course ²	4
	Credits	17
Spring		
Elective Course ³		4
General Education E	Elective ⁴	3-4
Elective Course ³		3
Area VI: Creative/Fi	ne Arts Course ⁴	3
	Credits	14
	Total Credits	60

¹ MATH 121G College Algebra, MATH 190G Trigonometry and Precalculus, or MATH 191G Calculus and Analytic Geometry I is required for the degree but students may need to take prerequisites to enter the course.

² It is strongly recommended to follow recommendations on the Degree Requirements tab (p. 110) for guidance in lab science and elective choices. Work with advisor to select appropriate courses to support the chosen bachelor's degree program.

³ See the General Education Section (p. 20) of the catalog for a full list of courses.

⁴ Elective credit may vary based on General Education course selection, second language requirements, prerequisites, dual credit, AP credit, double majors and/or minor 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.

Social Work - Associate Degree

The Associate degree in Social Work is designed to prepare students for careers in social service or community health agencies as paraprofessionals. In addition, because of the large New Mexico Common Core component, the degree also helps prepare the student for a successful transition into a bachelor's program in Social Work or other majors.

The bachelor degree requirement for a second language requires a grade of C or better through the 112 level in any second language. If the student is a native speaker, the requirement is met with 113, 213 and 214 sequence in the language. If the student has taken one or two years of a second language in high school, they should take the language placement test to determine the level of course in which they should begin. See an advisor.

Students interested in the Las Cruces campus Bachelor Degree in Social Work program may also be interested in the Associate in Social Work. Students planning to pursue a Bachelor's Degree in Social Work must apply for the Social Work Program. Students (particularly transfer students) should contact the Social Work Advisor in Las Cruces for advising and for the application packets. **Note: A 2.5 GPA is required for the Bachelor in Social Work degree.**

Social Work - Associate Degree (p. 112)

Career & Technology Division

New Mexico State University Alamogordo 2400 N. Scenic Drive Alamogordo, NM 88310

Division Head: Cathy Aguilar-Morgan

Administrative Assistant: Michelle Nelson

Office Location: Science Center

Phone: 575.439.3761

eMail:

ctNMSUA@nmsu.edu (<u>ctnmsua@nmsu.edu</u>)

Website:

http://nmsua.edu/career-and-technology/

Social Work - Associate Degree

Students must earn a grade of C- or better in all Social Work courses.

Total Credits Required for Degree: 60

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits	
General Education Requirements			
Area I: Communicati	ons		
English Composition	n - Level 1		
ENGL 111G	Rhetoric and Composition	4	
English Composition	n - Level 2		
Choose one from th	ne following:	3	
ENGL 203G	Business and Professional Communication		
ENGL 211G	Writing in the Humanities and Social Sciences		
ENGL 218G	Technical and Scientific Communication		
Oral Communication	1		
COMM 265G	Principles of Human Communication	3	
or COMM 253G	Public Speaking		
Area II: Mathematics	1 5		
MATH 121G	College Algebra ¹	3	
Areas III/IV: Laborat	ory Science and Social/Behavioral Sciences	10	
C EP 110G	Human Growth and Behavior		
PSY 201G	Introduction to Psychology		
BIOL 101G	Human Biology		
& 101GL	and Human Biology Laboratory		
Area V: Humanities			
PHIL 101G	The Art of Wondering	3	
Area VI: Creative/Fin	ne Arts		
Select one course f	rom Area VI: Creative/Fine Arts ²	3	
General Education E	lective		
S WK 221G	Introduction to Social Welfare (Core Requirement)	3	
Core Degree Requir	rements		
COLL 101	College/Life Success	1	
C S 110	Computer Literacy	3	
SOC 101G	Introductory Sociology	3	
or SOC 201G	Contemporary Social Problems		
PSY 266	Applied Psychology	3	
or PSY 290	Psychology of Adjustment		
STAT 251G	Statistics for Business and the Behavioral Sciences	3	
S WK 253	Case Management	3	
Second Language Re	equirement	8	
SPAN 111	Elementary Spanish I		
SPAN 112	Elementary Spanish II		
OR select two se	mesters of a second language		
Electives, to bring t	he total credits to 60 ³	4	
Total Credits		60	

- ¹ MATH 121G College Algebra is required for the degree but students may need to take prerequisites to enter the course.
- ² See the General Education Section (p. 20) 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.

A Suggested Plan of Study - Social Work

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

Course	Title	Credits
First Year		
Fall		
C S 110	Computer Literacy	3
COLL 101	College/Life Success	1
ENGL 111G	Rhetoric and Composition	4
PHIL 101G	The Art of Wondering	3
S WK 221G	Introduction to Social Welfare	3
	Credits	14
Spring		
BIOL 101G	Human Biology	4
& 101GL	and Human Biology Laboratory	
COMM 253G	Public Speaking	3
or COMM 265G	or Principles of Human	
	Communication	
Choose one from th	•	3
ENGL 203G	Business and Professional	
	Communication	
ENGL 211G	Writing in the Humanities and Social Sciences	
ENGL 218G	Technical and Scientific Communication	
PSY 201G	Introduction to Psychology	3
Select one course f	rom Area VI: Creative/Fine Arts ¹	3
	Credits	16
Second Year		
Fall		
C EP 110G	Human Growth and Behavior	3
MATH 121G	College Algebra ²	3
PSY 266	Applied Psychology	3
or PSY 290	or Psychology of Adjustment	
SOC 101G	Introductory Sociology	3
or SOC 201G	or Contemporary Social Problems	
SPAN 111	Elementary Spanish I ³	4
	Credits	16
Spring		
S WK 253	Case Management	3
SPAN 112	Elementary Spanish II ³	4

STAT 251G	Statistics for Business and the Behavioral Sciences	3
Elective Course ⁴		4
	Credits	14
	Total Credits	60

- ¹ See the General Education Section (p. 20) of the catalog for a full list of courses.
- ² MATH 121G College Algebra is required for the degree but students may need to take prerequisites to enter the course.
- ³ Students are recommended to take SPAN 111 Elementary Spanish I and SPAN 112 Elementary Spanish II but can complete the requirement with two semesters of another second language prefix.
- ⁴ 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.

COURSE DESCRIPTIONS

Note: Not all courses listed below are taught at the NMSU Alamogordo Campus.

A

- A S-ARTS AND SCIENCES (p. 117)
- A ST- APPLIED STATISTICS (p. 117)
- ACCT-ACCOUNTING (p. 117)
- ACES-AGRI, CONSUMER & ENV SCIE (p. 117)
- AERO-AEROSPACE STUDIES (p. 117)
- AERT-AEROSPACE TECHNOLOGY (p. 118)
- AG E-AGRICULTURAL ECONOMICS (p. 119)
- AGRO-AGRONOMY (p. 119)
- AHS-ALLIED HEALTH SCIENCE (p. 119)
- ANSC-ANIMAL SCIENCE (p. 120)
- ANTH-ANTHROPOLOGY (p. 121)
- ARCT-ARCHITECTURE (p. 122)
- ART-ART (p. 124)
- ASTR-ASTRONOMY (p. 125)
- AUTO-AUTOMOTIVE TECHNOLOGY (p. 126)
- AVIM-AVIATION MAINTENANCE (p. 128)
- AXED-AGRICULTURAL EXTN EDUC (p. 128)

B

- B A-BUSINESS ADMINISTRATION (p. 129)
- BCHE-BIOCHEMISTRY (p. 129)
- BCIS-BUSINESS COMPUTER SYSTEMS (p. 129)
- BCT-BUILDING CONSTRUCTION TECH (p. 129)
- BIOL-BIOLOGY (p. 131)
- BLAW-BUSINESS LAW (p. 133)
- BMGT-BUSINESS MANAGEMENT (p. 133)
- BOT-BUSINESS OFFICE TECHNOLOGY (p. 135)
- BUSA-BUSINESS ADMINISTRATION (p. 137)

С

- C D-COMMUNICATION DISORDERS (p. 137)
- C E-CIVIL ENGINEERING (p. 137)
- C EP-COUNSELING & EDUC PSY (p. 138)
- C J-CRIMINAL JUSTICE (p. 138)
- C S-COMPUTER SCIENCE (p. 139)
- CCDE-DEVELOPMENTAL ENGLISH (p. 140)
- CCDL-DEVELOPMENTAL ESL (p. 140)
- CCDM-DEVELOPMENTAL MATHEMATICS (p. 140)
- CCDR-DEVELOPMENTAL READING (p. 141)
- CCDS-DEVELOPMENTAL SKILLS (p. 141)
- CHEF-CULINARY ARTS (p. 141)
- CHEM-CHEMISTRY (p. 143)
- CHIN-CHINESE (p. 144)
- CHME-CHEMICAL & MATERIALS ENGR (p. 144)
- CHSS COMM HEALTH/SOC SRVCS (p. 144)
- CMI CINEMA & FILM/VIDEO PROD (p. 145)

- CMT-CREATIVE MEDIA TECHNOLOGY (p. 146)
- COLL-COLLEGE (p. 150)
- COMM-COMMUNICATION (p. 150)
- CSEC-CYBERSECURITY (p. 151)
- CTEC-CYBER TECHNOLOGY (p. 151)
- CTFM-CLTHNG/TXTLS/FSHN MRCHDSG (p. 153)

D

- DANC-DANCE (p. 153)
- DAS-DENTAL ASSISTING (p. 155)
- DHYG DENTAL HYGIENE/HYGIENIST (p. 156)
- DMS-DIAGNOSTIC MED SONOGRAPHY (p. 158)
- DRFT-DRAFTING (p. 160)

Ε

- E E-ELECTRICAL ENGINEERING (p. 163)
- E S-ENVIRONMENTAL SCIENCE (p. 164)
- E T-ENGINEERING TECHNOLOGY (p. 164)
- ECED-EARLY CHILDHOOD EDUCATION (p. 166)
- ECON-ECONOMICS (p. 168)
- EDUC-EDUCATION (p. 168)
- ELA EDUC LEADERSHIP & ADMIN (p. 168)
- ELT ELECTRONICS TECHNOLOGY (p. 169)
- ELWK-ELECTRICAL LINEWORKER (p. 170)
- ENGL-ENGLISH (p. 171)
- ENGR-ENGINEERING (p. 172)
- EPWS-ETMLGY/PLNT PTHLGY/WD SCI (p. 172)

F

- FCS-FAMILY AND CHILD SCIENCE (p. 172)
- FCSE-FAMILY & CONSUMER SCI EDU (p. 172)
- FIN-FINANCE (p. 173)
- FIRE-FIRE INVESTIGATION (p. 173)
- FREN-FRENCH (p. 175)
- FSTE-FOOD SCIENCE & TECHNOLOGY (p. 175)
- FWCE-FISH,WILDLF,CONSERV ECOL (p. 175)

G

- GENE-GENETICS (p. 175)
- GEOG-GEOGRAPHY (p. 175)
- GEOL-GEOLOGY (p. 176)
- GER-GERMAN (p. 176)
- GOVT-GOVERNMENT (p. 176)

Η

- HIST-HISTORY (p. 177)
- HIT-HEALTH INFO TECHNOLOGY (p. 177)
- HNDS-HUMAN NUTRITION & DIET (p. 178)
- HON-HONORS (p. 178)
- HORT-HORTICULTURE (p. 180)
- HOST-HOSPITALITY AND TOURISM (p. 180)

- HRTM-HOTEL/RESTRNT/TOURISM MGT (p. 181)
- HVAC-HEATING/AC/REFRIGERATION (p. 182)

- I E-INDUSTRIAL ENGINEERING (p. 183)
- INMT INDUSTRIAL MAINTENANCE (p. 183)
- INTEGRATED NATURAL SCIENCES (p. 184)

J

- JOUR-JOURNALISM (p. 184)
- JPNS-JAPANESE (p. 184)

L

- L SC-LIBRARY SCIENCE (p. 185)
- LANG-LANGUAGE (p. 187)
- LAWE-LAW ENFORCEMENT (p. 187)
- LIB-LIBRARY SCIENCE (p. 187)
- LING-LINGUISTICS (p. 187)

Μ

- M E-MECHANICAL ENGINEERING (p. 188)
- M SC-MILITARY SCIENCE (p. 188)
- MAT-AUTOMATION & MANUFACTURING (p. 189)
- MATH-MATHEMATICS (p. 190)
- MGT-MANAGEMENT (p. 191)
- MKTG-MARKETING (p. 192)
- MUS-MUSIC (p. 192)

Ν

- NA NURSING ASSISTANT (p. 194)
- NAV-NAVAJO (p. 196)
- NURS-NURSING (p. 196)

0

- OEBM-BIOMEDICAL TECHNOLOGY (p. 200)
- OECS-COMPUTER TECHNOLOGY (p. 200)
- OEEM- PARAMEDIC (p. 203)
- OEET- ELECTRICAL TRADES (p. 205)
- OEGR-DIGITAL GRAPHIC TECH (p. 206)
- OEGS-GEOGRAPHIC INFO SYS (p. 206)
- OEPT-PHOTOGRAPHIC TRADES (p. 207)
- OETS-TECHNICAL STUDIES (p. 207)

Ρ

- P E-PHYSICAL EDUCATION (p. 207)
- PE-P-PHYSICAL EDUCATION (p. 209)
- PHIL-PHILOSOPHY (p. 209)
- PHLS-PUBLIC HEALTH SCIENCES (p. 209)
- PHYS-PHYSICS (p. 209)
- PL-S-PARALEGAL SERVICES (p. 211)
- PORT-PORTUGUESE (p. 212)
- PSY-PSYCHOLOGY (p. 212)

R

- RADT-RADIOLOGIC TECHNOLOGY (p. 213)
- RESP RESPIRATORY THERAPY (p. 214)
- RGSC-RANGE SCIENCE (p. 215)

S

- S WK-SOCIAL WORK (p. 215)
- SMET-SCIENCE/MATH/ENG/TECH (p. 215)
- SOC-SOCIOLOGY (p. 215)
- SOIL-SOIL (p. 216)
- SP M-SPORTS MEDICINE (p. 216)
- SPAN-SPANISH (p. 217)
- SPCD-ENGLISH AS A SECOND LNG (p. 217)
- SPED-SPECIAL EDUCATION (p. 217)
- STAT-STATISTICS (p. 217)
- SUR-SURVEYING (p. 218)
- SURG-SURGICAL TECHNOLOGY (p. 218)

Τ

- TCEN-ENVIRONMENTAL/ENERGY TECH (p. 219)
- THTR-THEATRE (p. 221)

U

• UNIV-UNIVERSITY STUDIES (p. 222)

W

- W S-WOMEN'S STUDIES (p. 222)
- WATR-WATER UTILITIES (p. 222)
- WELD-WELDING TECHNOLOGY (p. 224)

How to Read the Course Listings

Courses are titled in the following style:

ASTR 110G Introduction to Astronomy 4 cr. (3+3P)

- · Course number (110) indicates the course is a freshman course.
- · Suffix (G) indicates a New Mexico Common Core course.
- Credits The unit of university credit is the semester hour, which is the equivalent of one hour's recitation or a minimum of two hours of practice per week for one semester. The (3+3P) means that the class meets for 150 minutes per week for lecture and also requires 150 minutes per week of "laboratory" (practice or field work).

Course Number Designation:

100-199 – Freshman courses 200-299 – Sophomore courses

Additional Notes:

When the letter "N' is added as a suffix to the course number, the course credits are not applicable to certificates, associate, or bachelor degrees. The CCD courses are only offered on the Community College Campuses.

Consult with an Academic Advisor regarding courses that have different prefixed/course numbers but the same course titles as these classes are often considered duplications.

Students may not receive credit for a lower level course which is a prerequisite to a higher level course for which credit has been received or which is being taken for credit.

A S-ARTS AND SCIENCES (A S)

A S 100. Insights: University Experience for Future Careers 1 Credit

Research and investigation of college majors and career opportunities.

A S 101. Success Seminar

1 Credit

Academic and personal strategies and campus resources to enhance scholastic achievement. May be repeated up to 1 credits.

A S 103. Quantitative Foundations

3 Credits

Course is designed to prepare students for College level mathematics. Initial assessments generate individualized paths to mastery of fundamental skills. Course also covers strategies and campus resources to enhance scholastic achievement. Traditional Grading with RR. May be repeated up to 6 credits. Traditional Grading with RR. Restricted to Las Cruces campus only.

A S 150. Humanities in the Twenty-First Century 3 Credits

3 Credits

An exploration of the humanities, of their intrinsic and extrinsic values, and of the skills and habits of mind they cultivate. Restricted to Las Cruces campus only.

A S 200. Interdisciplinary Topics

1-4 Credits

An interdisciplinary approach to subject matter cutting across departmental fields. Specific subjects to be announced in the Schedule of Classes.

A ST- APPLIED STATISTICS (A ST)

A ST 251G. Statistics for Business and the Behavioral Sciences 3 Credits

Techniques for describing and analyzing data; estimation, hypothesis testing, regression and correlation; basic concepts of statistical inference. Same as STAT 251G. **Prerequisite:** C- or better in MATH 120.

ACCT-ACCOUNTING (ACCT)

ACCT 101. Supplemental Instruction to ACCT 221

1 Credit

Collaborative workshop for students in ACCT 221 – Financial Accounting. Course does not count toward departmental degree requirements. May be repeated up to 2 credits. Restricted to Las Cruces campus only. **Corequisite(s):** ACCT 221.

ACCT 200. A Survey of Accounting

3 Credits

Emphasis on financial statement interpretation and development of accounting information for management. For engineering, computer science, and other non business majors. Community Colleges only. **Prerequisite:** one C S course or consent of instructor.

ACCT 221. Principles of Accounting I (Financial) 3 Credits

An introduction to financial accounting concepts emphasizing the analysis of business transactions in accordance with generally accepted accounting principles (GAAP), the effect of these transactions on the financial statements, financial analysis, and the interrelationships of the financial statements.

ACCT 222. Principles of Accounting II (Managerial) 3 Credits

An introduction to the use of accounting information in the management decision making processes of planning, implementing, and controlling business activities. In addition, the course will discuss the accumulation and classification of costs as well as demonstrate the difference between costing systems.

Prerequisite(s): ACCT 221.

ACES-AGRI, CONSUMER & ENV SCIE (ACES)

ACES 111. Freshman Orientation

1 Credit

Orientation to University life, including the understanding and utilization of resources that promote University success. Designed to promote success in achieving a career objective and perseverance for degree completion. Promotes a recognition of changes required in moving from high school to the University. Eight weeks in length, required for all freshmen in the College of Agricultural, Consumer and Environmental Science.

ACES 121. Financial Fitness for College Students 1 Credit

An introduction to personal financial practices in post high school and/ or college lives. Emphasis is placed on budgeting, savings, investment, college debt, student loans, credit cards, scams and consumer protection.

ACES 199. Academic Excellence

1-3 Credits (1-3)

Academic curriculum of excellence that includes the development of collaborative learning and student success environment, learning diverse learning styles and multiple intelligences, and developing multicontextual academic communication styles. Restricted to: Open to all ACES majors. Restricted to Las Cruces campus only.

AERO-AEROSPACE STUDIES (AERO)

AERO 121. Heritage and Values

2 Credits (1.25+2P)

"Heritage and Values of the United States Air Force," is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

AERO 122. Heritage and Values II 2 Credits (1.25+2P)

"Heritage and Values of the United States Air Force," is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, and organization of the Air Force. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

AERO 221. Team and Leadership Fundamentals 2 Credits (1.25+2P)

"Teams and Leadership Fundamentals," focuses on laying the foundation for teams and leadership. The topics include skills that allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

AERO 222. Team and Leadership Fundamentals II 2 Credits (1.25+2P)

"Team and Leadership Fundamentals," focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

AERO 223. Air Force Leadership Development 1 Credit

This course prepares cadets to excel in field training. Cadets are prepared in all facets of field training, including: leadership competency evaluations, the Cadet's Guide to Field Training, individual drill evaluations, attention to detail, dining hall procedures, maintenance of living areas, and the group problem solving process. Restricted to: Main campus only.

AERT-AEROSPACE TECHNOLOGY (AERT)

AERT 105. Aerospace Engineering PLTW 4 Credits (2+4P)

Introduce the student to Aerospace Engineering (AE) concepts and history. Studied topics include History of Flight, Aerodynamics, Rocket Science, Orbital Physics, Systems Engineering and Life Support/ Environmental Systems. Restricted to: Community Colleges only.

AERT 111. Basic Electricity and Electronics 3 Credits (2+2P)

Fundamentals of electricity and electronics, basic circuit devices, meters, transistors, integrated fiber optics, and industrial application topics. Minimum math proficiency of CCDM 103 or CCDM 104 required or math placement into CCDM 114 or higher. Restricted to: Community Colleges only. Crosslisted with: ELT 105

AERT 121. Introduction to the Aerospace Workplace 4 Credits (2+4P)

The course covers space history, regulations, controls, aerospace industry terminology and acronyms as well as hands-on activities related to tools, procedures, and standard practices. Restricted to: Community Colleges only.

AERT 122. Aerospace Safety and Quality 3 Credits (2+2P)

Covers identification of hazards, personal protective equipment, safe practices, and protection of personnel, property, and equipment in the aerospace environment. Basic principles of quality assurance engineering and quality control relating to work processes will be discussed. Restricted to: Community Colleges only.

AERT 211. Electromechanical Devices 4 Credits (2+4P)

Theory and application of electromechanical devices and digital control circuits. Includes AD and DA converters, pneumatics, hydraulics, programmable logic controllers, DC, AC and stepper motors, and servomechanisms. Crosslisted with: MAT 240. **Prerequisite(s):** ELT 160.

AERT 212. Materials and Processes (Basic Metallurgy) 3 Credits (2+2P)

Basic Metallurgy: Aluminum and its alloys (Alclad), hardening, tempering, annealing, anodizing, magnetism, titanium, copper, stainless steel, surgical steel, safety wire, iron rust. Metallurgical Processes: Welding and soldering. Inspection Fundamentals: Eddy currents, magnetic particles (ferrous and non-ferrous metals), ultrasonic, x-ray, visual, corrosion and corrosion control, and vacuum bagging. Restricted to: Community Colleges only.

AERT 213. Aerospace Fluid Systems 3 Credits (2+2P)

This course includes a familiarization of fluid system components, characteristics, and applications. Cryogenic and hypergolic materials and high pressure systems are also covered. Restricted to: Community Colleges only.

AERT 214. Aerospace Systems 3 Credits (2+2P)

This course provides an introduction to expendable and reusable spacecraft systems including hydraulic, pneumatic, electrical, propulsion, mechanical, HVAC, and ECLSS (Environmental Control and Life Support System). How systems interact with computer and data acquisition systems is also covered. Restricted to: Community Colleges only.

AERT 221. Inspection Requirements and Planning Metrology 3 Credits (2+2P)

Course teaches the benefits of inspection, quality control, material conditions. Also covers measurements, including temperature, ultrasonic, vibration and more. Restricted to: Community Colleges only.

AERT 222. Electromechanical Systems 3 Credits (2+2P)

Principles and applications of preventive and corrective maintenance procedures on industrial production machines using systems technical and maintenance manuals to develop troubleshooting procedures using systems block and schematic diagrams. Pre/ Crosslisted with: MAT 245. **Prerequisite(s)/Corequisite(s):** AERT 221 or MAT 240. Prerequisite(s): ELT 160.

AERT 224. Aerospace Tests and Measurements 3 Credits (2+2P)

This course covers electrical and mechanical testing procedures (primarily non-destructive testing), equipment, measurements, and instrumentation involved in aerospace systems. Verification of tool and equipment calibration is also covered. Pre/ Restricted to: Community Colleges only.

Corequisite(s): AERT 221.

AERT 225. Cooperative Experience

1-3 Credits (1-3)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Consent of instructor required. Graded: S/U. Restricted to: Community Colleges only.

AERT 255. Special Topics

1-4 Credits (1-4)

Specific topics to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

AERT 290. Independent Study

1-3 Credits (1-3)

Individual studies in areas directly related to aerospace. Consent of instructor required. Restricted to: Community Colleges only.

AG E-AGRICULTURAL ECONOMICS (AG E)

AG E 100. Introductory to Food and Agribusiness Management 3 Credits

Orientation to agricultural supply businesses, farm and ranch production, food markets, food processing and distribution, and food consumption. Microeconomic principles for managers. May be repeated up to 3 credits.

AG E 101. Careers in Food and Agribusiness

1 Credit

Orientation to agribusiness management. Students will learn about agricultural production and marketing in New Mexico, the United States, and the world. Students will be introduced to faculty and staff within the department, learn about career opportunities available to AEAB graduates, and develop a greater appreciation of agricultural management issues. May be repeated up to 1 credits. Restricted to Las Cruces campus only.

Prerequisite(s): Freshman status only or obtain consent of instructor.

AG E 200. Special Topics

1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree. Consent of instructor required.

AG E 210G. Survey of Food and Agricultural Issues 3 Credits

Survey of food and agricultural issues, including: geography of food production and consumption; human-agricultural-natural resource relations; agriculture in the United States and abroad; modern agribusiness; food safety; food, agriculture, and natural resources policy; ethical questions; role and impact of technology. Crosslisted with: FSTE 210G.

AG E 236. Principles of Food and Agribusiness Management 3 Credits

Description and application of management and financial principles, market planning, and organization theory in small business situations. May be repeated up to 3 credits.

AG E 250. Technology and Communication for Business Management 3 Credits (2+2P)

Understanding and improving skills for data analysis, information management and communication is the focus of this course. Drawing examples from a variety of management, business, technological and research situations, students discover the versatility and variety of uses of computer applications such as spreadsheet, database, presentation and document software. Emphasizing a 'hands-on' approach students learn the foundations of these tools and their use.

AG E 260. Introduction to Food and Agribusiness Accounting 3 Credits

Purpose and methods of keeping and analyzing farm and ranch records. Net worth and income statements, efficiency measures, analysis of the business, and tax computations. May be repeated up to 3 credits.

AGRO-AGRONOMY (AGRO)

AGRO 100G. Introductory Plant Science

4 Credits (3+2P)

Introduction to the physical, biological, and chemical principles underlying plant growth and development in managed ecosystems. In the laboratory portion of the class, students perform experiments demonstrating the principles covered in lecture. The course uses economic plants and agriculturally relevant ecosystems to demonstrate basic principles. Appropriate for nonscience majors. Same as HORT 100G.

AGRO 200. Special Topics 1-4 Credits (1-4)

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree. May be repeated up to 9 credits. Consent of Instructor required.

AGRO 250. Plant Propagation

3 Credits (2+2P)

Practical methods of propagating horticultural plants by seed, cuttings, layering, grafting, division and tissue culture. Examination of relevant physiological processes involved with successful plant propagation techniques. Crosslisted with HORT 250.

AHS-ALLIED HEALTH SCIENCE (AHS)

AHS 102. Careers in the Health Fields

1-3 Credits (1-3)

This course will provide students with a broad understanding of health careers as well as emerging issues in health. This will also include the study of the functional roles of practice, education, administration, and research in health fields. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

AHS 115. Dietary Guidelines & Meal Planning 4 Credits

A combination of the science of nutrition and the current Dietary Guidelines for Americans with practical application to meal planning and preparation. Strategies and techniques used to plan and prepare healthful and appetizing meals are explored. Evidenced-based dietary guidelines are provided to meet the needs of individuals and groups with chronic diseases. Menu development, modification and analysis are reviewed. Restricted to Community Colleges campuses only.

AHS 116. Math for Health Occupations

3 Credits

Principles of math and pharmacology necessary for administration of medications. Restricted to: Community Colleges only. **Prerequisite(s):** CCDM 114N or equivalent.

AHS 120. Medical Terminology

3 Credits

The study and understanding of medical terminology as it relates to diseases, their causes and effects, and the terminology used in various medical specialties. Emphasis will be placed on learning the basic construction of medical words, appropriate spelling, use of medical terms, and use of medical abbreviations. Same as HIT 150. May be repeated up to 3 credits. Crosslisted with: NURS 150, BOT 150 and HIT 150. Restricted to Community Colleges campuses only.

AHS 140. Essentials of Anatomy and Physiology 4 Credits (3+3P)

Essentials of anatomy and physiology for those considering a career in health as well as those interested in understanding their own body and the basics of health.

AHS 153. Introduction to Anatomy and Physiology I 4 Credits (3+3P)

Survey of human anatomy and physiology. **Prerequisite:** high school biology or high school chemistry, or CHEM 110G, or consent of instructor.

AHS 155. Special Topics

1-6 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 6 credits.

AHS 190. Clinical Skills & Concepts for Medical Assisting I 6 Credits (3+6P)

A core course designed to provide an introduction to the theory, concepts, and skills needed for entry-level medical assisting positions. Content includes basic theory and concepts designed to support safe and effective practice as a medical assistant in ambulatory care settings. Includes a skills laboratory for hands-on practice and 96 hours of supervised clinical in the work environment. Restricted to Community Colleges campuses only.

Prerequisite(s): (BIOL 225 and 226) or (AHS 153 and 154).

AHS 202. Legal and Ethical Issues in Health Care 3 Credits

Consideration of legal and ethical issues in modern health care delivery.

AHS 250. Spanish for Health Professionals

3 Credits

Spanish for Health Professionals is a 3 credit course geared toward individuals working or majoring in health related areas. The course focus is on conversation and vocabulary needed for the workplace and task based practical skills. Restricted to: Community Colleges only.

AHS 280. Medical Office Administration & Management 4 Credits (2+4P)

A core course designed to provide the theory, concepts, and skills needed in preparation for entry-level medical assisting positions. Content includes theory and concepts related to medical office administration. The course includes skills, hands-on practice, and 40 hours of supervised clinical in the work environment in ambulatory care settings. Restricted to Community Colleges campuses only.

AHS 290. Clincial Skills & Concepts for Medical Assisting II 6 Credits (3+6P)

A core course designed to provide the theory, concepts, and skills needed in preparation for entry-level medical assisting positions. Content includes theory and concepts related to specialty areas of healthcare practice, as well as consideration for conditions affecting persons throughout the life span. The course includes a skills laboratory for hands-on practice and 96 hours of supervised clinical in the work environment with specialized populations and procedures in both ambulatory and acute care settings. Restricted to Community Colleges campuses only.

Prerequisite(s): AHS 190.

AHS 295. Introduction to Allied Health 1 Credit

An introductory course that covers a multidisciplinary focus needed for success in the allied health care environment. Topics include health care delivery systems and allied health careers, history of health care, law and ethics pertaining to health care, personal qualities of health care workers, confidentiality and reportable incidents. This course will also cover an orientation into safety and infection control, core measures and quality assurance, perspective payment system, customer service, current trends in health care and communication, skills to be a patient/client educator and a member of the Health Care team. Open to all students wanting to explore the allied health care industry. Restricted to Community Colleges campuses only.

ANSC-ANIMAL SCIENCE (ANSC)

ANSC 100. Introductory Animal Science 3 Credits

Orientation and survey of livestock industry in the United States; introduction to feeding, breeding, and management practices for producing farm animals and select companion animals.

ANSC 100 H. Introductory Animal Science 3 Credits

Orientation and survey of livestock industry in the United States; introduction to feeding, breeding and management practices for producing farm animals and select companion animals. Additional course work will be required. Restricted to Las Cruces campus only. **Prerequisite(s):** Eligibility for membership in honors college.

ANSC 100 L. Introductory Animal Science Laboratory 1 Credit

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. Pre/ Corequisite(s): ANSC 100.

ANSC 103. Introductory Horse Science 3 Credits (2+2P)

The light horse industry; breeds; introduction to feeding, breeding, marketing and management; handling and selecting horses for breeding and performance.

ANSC 112. Companion Animals in Society 3 Credits

Examination of the historical, current, and potential future roles of companion animals in human society. Topics include animal domestication, breeds, exotic companion animals, the companion animal industry, and competitions and sports involving companion animals. Emphasis is on canine and feline species. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

ANSC 190. Western Equitation I 2 Credits

Basic principles of Western riding, including care and management of the riding horse, equitation equipment, and development of riding skills.

ANSC 200. Introduction to Meat Animal Production 3 Credits (2+2P)

Production and utilization of beef cattle, sheep and swine; emphasis on feeding, breeding, management problems and marketing; selection of animals for breeding and market.

ANSC 201. Introduction to Genetics for Animal Production **3 Credits**

Introduction to genetics and inheritance relative to livestock production. Introduction to procedures for collection and use of performance information in livestock improvement programs. Prerequisites: BIOL 111G.

ANSC 205. Introduction to Dairy Science 3 Credits

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 100. Restricted to Las Cruces campus only.

ANSC 220. Animal Science Career Development 1 Credit

Introduction to scientific disciplines and career options in animalagriculture career-skill development, including resume preparation, networking, importance of internships, and leadership experiences in animal agriculture.

ANSC 250. Special Topics

1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree.

ANSC 261. Introduction to Animal Metabolism 3 Credits

Principles underlying the mechanisms of animal metabolism as they relate to production, maintenance, and health of animals. Prerequisite: CHEM 111G.

ANSC 262. Introduction to Meat Science

3 Credits (2+3P)

Fundamental aspects of the red meat industry. Lecture topics and laboratory exercises include the nutrient value of meat, meat preservation, meat safety, muscle structure and contraction, slaughter and processing of beef, lamb, and pork, sausage manufacture, meat curing, meat cookery, and muscle and bone anatomy.

ANSC 285. Introduction to Companion Animal Science

3 Credits

Introduction to the care of common companion animal species. Species specific housing and nutrition are covered in the context of maximizing animal health and well-being and reducing disease. May be repeated up to 3 credits.

ANSC 288. Horse Fitting and Selling **3 Credits**

Preparation of horses for sale; planning and conduct of auction sale; application of marketing principles relating to selling horses. Prerequisite: ANSC 103 or consent of instructor.

ANSC 289. Management of Equine Operations **3 Credits**

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 103 or consent of instructor.

ANSC 290. Western Equitation II 2 Credits

Intermediate principles of Western riding, including reading horse behavior, limbering-up exercises, and developing riding skills. Introduction to rollbacks, turnarounds and stops. Prerequisite: consent of instructor.

ANSC 295. Team Competition in Animal Science 1-2 Credits

Training in team competition in the animal sciences. May be repeated for a maximum of 6 credits. May be repeated up to 6 credits. Consent of

Instructor required.

ANTH-ANTHROPOLOGY (ANTH)

ANTH 115. Native Peoples of North America **3 Credits**

Provides an introduction to the geography, environment, prehistoric cultural origins, sociopolitical organization, language, economics, material culture and technology, religious beliefs and practices, and historic period culture change of Native peoples of North America.

ANTH 116. Native Peoples of the American Southwest **3 Credits**

Introduction to the early history and culture of native people of the Southwest.

ANTH 118. Introduction to Historic Preservation **3 Credits**

Introduction to historic preservation, its history, goals, methods, legal basis, and economic importance. Explores public role in decision-making. Community Colleges only.

ANTH 120G. Human Ancestors

3 Credits

Evolutionary history of the human species from its origin in the primate order, with primary emphasis on the evolution of humankind during the past three million years. Examination of the social lives of apes and consideration of similarities to and differences from them. Biological foundations of human behavior, emphasizing thought, movement, and interaction.

ANTH 125G. Introduction to World Cultures 3 Credits

Examine cross-cultural diversity and human universals through the lens of anthropological inquiry. Explore human thought and behavior in contemporary world cultures covering kinship, economic patterns, power structures, and religious practices and beliefs. The impact of cultural influence on everyday life is emphasized.

ANTH 130G. Human's Place in Nature: Introduction to Biological Anthropology

3 Credits

This course uses scientific methods and principles to examine human evolutionary history and family tree relationships, as well as the biological foundations of human behavior. Through lectures, readings and laboratory assignments students are introduced to the history and development of modern evolutionary biology, molecular and population genetics, the primate and human fossil record and modern human biological diversity. By examining the social lives of apes and other primates, primitive and unique aspects of human behavior are identified and the lives of fossil ancestors are reconstructed. **Corequisite(s):** ANTH 130GL.

ANTH 130GL. Human's Place in Nature Laboratory 1 Credit

This one credit laboratory course is required to be taken with the lecture section of ANTH 130G and uses scientific methods and principles to examine evidence for human evolutionary history and family tree relationships, primate ecology and behavior, and modern human diversity. May be repeated up to 1 credits.

Corequisite(s): ANTH 130G.

ANTH 201G. Introduction to Anthropology 3 Credits

Exploration of human origins and the development of cultural diversity. Topics include biological and cultural evolution, the structure and functions of social institutions, belief systems, language and culture, human-environmental relationships, methods of prehistoric and contemporary cultural analysis, and theories of culture.

ANTH 202G. World Archaeology 3 Credits

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.

ANTH 297. Elementary Special Topics

1-4 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

ARCT-ARCHITECTURE (ARCT)

ARCT 101. Introduction to Architecture

3 Credits (2+2P)

This course provides students the tools and vocabulary to analyze, interpret, and discuss the built environment from the social, historical, perceptual, and technical determinants. Lectures and assignments will introduce students to the elements of current and likely future directions of architecture from experiential, aesthetic, structural, functional, and historical perspectives. The course will provide students with knowledge about the people and processes involved with professional issues of architectural practice. Students will be required to participate in individual and group presentations and projects, as well as compile a portfolio of their work completed in the course.

ARCT 104. Introduction to Architectural Drawing 4 Credits (2+4P)

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. 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. Direct linkages with the Introduction to Architecture course provides exposure to a wide range of interconnected architectural concepts. May be repeated up to 4 credits. Restricted to Grants, Dona Ana and Alamogordo campuses.

ARCT 111. Architecture World History I 3 Credits (2+2P)

A survey of the development of world architecture from the ancient era to the advent of the enlightenment in Europe. Major emphasis is on the visual, intellectual, cultural and technological aspects of the ancient and indigenous cultures of the classical and pre-modern world. Community Colleges only. Restricted to Alamogordo, Dona Ana and Grants campuses.

ARCT 124. Global Issues and Sustainability 3 Credits

Introduction to global environmental issues (historic, present, and future), and the impact on tomorrow's design and construction professions. Issues will include, but shall not be limited to global warming, energy consumption, population, natural resource consumption, air and water quality, waste management, facilities operation management, politics, and facilities design & construction. The impact on the design and construction industry, including 'Green Building' and 'LEED Accreditation and Certification/Criteria' will also be addressed. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

ARCT 150. Orientation and Mentoring in Architecture-Construction-Engineering (ACE)

1-6 Credits (1-6)

This course is intended for high school dual credit students and college/university students wishing to explore careers in Architecture, Construction, and Engineering (ACE), which includes the specific fields of Architectural, Civil, Mechanical, Structural, Interior, Landscape, Sustainability, and Environmental. Students receive one-on-one mentoring, attend field trips, and engage in hands-on activities. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

ARCT 154. Introduction to Architectural Design 3 Credits (2+2P)

This course provides students who possess a basic background in architecture and architectural drawing with an introduction to architectural design. Students are guided through a series of spatial and analytical exercises that focus attention on two dimensional, three dimensional, and four dimensional design. This course will build on direct linkages to ARCT 101 and ARCT 104 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.

Prerequisite(s)/Corequisite(s): ARCT 104. Prerequisite(s): ARCT 101. Restricted to Community Colleges campuses only.

ARCT 170. Digital Imaging for Architecture 3 Credits (2+2P)

Explore various software and photography techniques widely used in the architectural field. In addition to using industry standard CAD program as primary 2-d drafting tool, focus is to produce digital architectural models and renderings, presentation boards, and animations. Digital images will be produced and enhanced through basic techniques in photography and integration of various software. Both individual and group work will be required. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

ARCT 204. Architectural Design Studio I 5 Credits (1+8P)

Enhancement of general graphic communication skills and introduction to fundamental design including exploration, development and defense of design concepts; structural order; 2D and 3D processes in manual and digital architectural graphic expression; model building; general communication and presentation techniques; and development of course portfolio. Course is Studio/critique-based with considerable amount of work/hours required. This course is designed to be taken during student's last year in the Pre-Architecture program. May be repeated up to 5 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of B- or better in both ARCT 101 and ARCT 104.

ARCT 210. Design Visualization I

3 Credits (2+2P)

Introduction to visual literacy, architectural graphic communication, & basic analytical skills. Architectural concepts primarily explored through the application of technical drawing, descriptive geometry, & material manipulation; primarily black & white media. Use of digital tools and media as applicable. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

ARCT 211. Architectural World History II 3 Credits (2+2P)

A survey of the development of world architecture from the enlightenment in Europe to the present. Community Colleges only. Restricted to Alamogordo, Dona Ana and Grants campuses. **Prerequisite(s):** ARCT 111 or consent of instructor.

ARCT 224. Sustainable Desgin in Architecture 3 Credits

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). Restricted to Community Colleges only.

Prerequisite(s): DRFT 109 or DRFT 165 or consent of instructor.

ARCT 250. Construction Documents 3 Credits (2+2P)

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. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): DRFT 109. Restricted to Community Colleges campuses only.

ARCT 254. Architectural Design Studio II 5 Credits (1+8P)

Advanced graphic communication, design, and 3D physical model representation. Focus on site analysis, programming and fundamental design issues of context, environment, program development and space planning, 2D and 3D design and presentation techniques. Course is 'Studio/critique-based' with considerable amount of outside work/hours required. Use of digital tools and media as applicable. This course is designed to be taken during student's last year in the Pre-Architecture program. May be repeated up to 5 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of C- or better in ARCT 204.

ARCT 260. Design Visualization II 3 Credits (2+2P)

Continuation of ARCT 210 with an emphasis in color media. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ARCT 210.

ARCT 264. Portfolio Design in Architecture 3 Credits

This course is intended for Pre-Architecture students in their last semester of the program. Students develop a comprehensive portfolio that compiles, organizes, and showcases their most accomplished coursework produced in Architecture courses at DACC, in preparation for application to a 4 yr. Architecture program. Skills and techniques in architectural photography, scanning, and design layout using graphic software. Restricted to Community Colleges only.

Corequisite(s): ARCT 254 or consent of instructor.

ARCT 274. LEED Accreditation Exam Prep 3 Credits

This course is intended for anyone in the construction or architectural design fields who is interested in learning more about green building and the LEED (Leadership in Energy and Environmental Design) strategies, and are also interested in learning about how to become LEED accredited. Overview of the LEED rating systems utilized in the design and operation of buildings, the various LEED building certifications, and accreditation requirements for professionals. Highlights include interpretation of the LEED Reference Guides, accepted strategies for meeting LEED certification, sample practice exams, integrated project delivery methods, and a practical approach to problem solving through the use of design problems. Restricted to Community Colleges only.

ARCT 290. Special Topics 1-6 Credits

Topics subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits. **Prerequisite:** consent of instructor.

ARCT 291. Cooperative Experience

1-6 Credits

Supervised cooperative work program. Student employed in approved occupation; supervised and evaluated by employer and instructor. Student meets weekly with instructor. Graded S/U. **Prerequisite:** consent of instructor.

ARCT 295. Professional Development and Leadership 1-3 Credits

As members and/or officers of student professional organizations, architecture students gain experience through undertaking leadership roles, participating in team building, and becoming involved in service to the community. Students can also gain actual work experience involving skills related to their field of study. May be repeated up to 6 credits. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

ART-ART (ART)

ART 101G. Orientation in Art

3 Credits (2+3P)

A multicultural examination of the principles and philosophies of the visual arts and the ideas expressed through them.

ART 110G. Visual Concepts

3 Credits (2+4P)

Introduction to the philosophies of art, visual thinking, and principles of visual organization. Designed to give students a broad view of aesthetic traditions, ideologies, and techniques basic to the creation and evaluation of art. Principles and concepts are taught in a common lecture and applied in parallel small studio sections. For non-art majors only.

ART 125. Foundations in Art

3 Credits (2+4P)

The Foundations course will focus on a deceptively simple question. "What is Contemporary Art, and how can we make it?" Through the exploration of basic visual design concepts, collaborative learning, and interdisciplinary studio production, this course will help us to discover what it means to be an artist in the 21st century. Restricted to Las Cruces campus only.

ART 150. Drawing I

3 Credits (2+4P)

Introduction to the skill of seeing through exercises that emphasize careful drawing from the still life and utilize a range of drawing materials and techniques. Outside assignments required. Intended for non-art majors on main campus. May be repeated up to 3 credits.

ART 151. Drawing II

3 Credits (2+4P)

Continued emphasis on drawing from observation by focusing on still life and other subject matter. Covers a range of materials, techniques and concepts. Outside assignments. Restricted to ART and ANVE/DFM majors.

Prerequisite(s): ART 150.

ART 155. 2-D Fundamentals

3 Credits

Introduction to two-dimensional space emphasizing visual elements and design principles as they apply to composition. A variety of materials are used in the studio projects and sketchbook exercises. Developing knowledge in vocabulary, color theory and skill in translating ideas into design are encouraged. Restricted to Community Colleges campuses only.

ART 156. 3-D Fundamentals 3 Credits

Compositional organization of three-dimensional space explored through a broad range of visual exercises. Resourceful and creative problem solving encouraged. Restricted to Community Colleges campuses only.

ART 157. Color Theory

3 Credits (2+4P)

Various color theories as they relate to compositional organization. Required for art education majors.

ART 160. Computer-Based Illustration

3 Credits (2+4P)

Introduction to the principles of computerized drawing and design. Using the basic concepts, drawing tools, and vocabulary of Adobe Illustrator. **Prerequisite:** ART 150, ART 155, or consent of instructor.

ART 161. Digital Imaging I

3 Credits (2+4P)

Work with basic concepts, tools, and vocabulary of Adobe Photoshop to create effective visual communication. Includes selection tools, cloning, copying and pasting, color correction, image restoration, filters, and special effects. Community Colleges only.

ART 163. Digital Graphics

3 Credits (2+4P)

Importing and exporting images and text into various desktop publishing formats. Exploring imaging, drawing, and page layout applications. Introduction to typography.

Prerequisite: ART 161.

ART 165. Web Page Design 3 Credits (2+4P)

Introduction to the creation of well-designed and organized Web sites. Emphasis on building creative but functional user-friendly sites. Introduction to HTML, Flash, Java Script, and Web-authoring software. Community Colleges only. Same as OEPT 165. **Prerequisite:** ART 161.

Prerequisite: ART 101

ART 208. Art Workshop

0.5 Credits

Required for all freshman and sophomore Art majors for four semesters, this workshop is designed to build professional student cohorts within the Department of Art; incorporate visiting artist and scholar lectures into the curriculum; and actively involve students in exhibitions and gallery and departmental events. May be repeated up to 4 credits. Crosslisted with: ART 308. Restricted to: BA Studio Art, BA Art History BFA Studio Art, BFA Museum Conservation majors. Restricted to Las Cruces campus only.

ART 250. Introduction to Drawing

3 Credits (2+4P)

Introduction to drawing with a focus on technical, structural, and methodological skills. Subjects include still life and live figure models.

ART 252. Aspects of Drawing

2-3 Credits Continued work in drawing with emphasis on personal creative endeavor. Community Colleges only.

Prerequisites: ART 150, ART 151, and ART 250.

ART 255. Introduction to Graphic Design 3 Credits (2+4P)

Introduction to the principles of visual communication and digital media, letterforms, typography and identity marks. Projects produced using conventional and digital tools.

ART 260. Introduction to Painting

3 Credits (2+4P)

Introduction to basic skills of painting through various exercises that emphasize working from observation, images and imagination. May be repeated up to 3 credits.

Prerequisite(s): ART 250 or ART 150.

ART 261. Painting Methods, Techniques and Applications 3 Credits (2+4P)

The investigation of formal aspects of painting, an examination of painting techniques, and an exploration of various methodologies regarding form and content as applied to critical thinking skills through medium of paint.

Prerequisite(s): ART 150, ART 260.

ART 262. Aspects of Painting

2-3 Credits

Varied painting media: continued development of painting skills. **Prerequisites:** ART 150, ART 155 (for art majors), ART 260, or consent of instructor.

ART 265. Introduction to Sculpture

3 Credits (2+4P)

Beginning sculpture students "explore space" while learning new processes and skills, including mold making, welding and woodworking.

ART 267. Art Portfolio Preparation

3 Credits (2+4P)

Refine general marketing strategies, personal portfolio and resumes. Define, target, and penetrate personal target markets. Students develop individual promotional packages.

Prerequisites: ART 163, ART 269, and ART 272, or consent of instructor.

ART 269. Advanced Computer-Based Illustration

3 Credits (2+4P)

Design custom graphics and create special effects with filtering, special effects on type, graphing, technical illustrations, and three-dimensional drawing using Adobe Illustrator.

Prerequisites: ART 157, ART 160, and ART 161, or consent of instructor.

ART 270. Introduction to Photography

3 Credits (2+4P)

Introduction to the production of digital images within the context of contemporary art. Utilizes digital SLR cameras with an emphasis on basic camera operation, picture composition, image processing and digital workflow. A DSLR camera is required. May be repeated up to 3 credits.

ART 272. Digital Imaging II 3 Credits (2+4P)

Refining of individual creative styles and technical skills using Adobe Photoshop, Emphasis on input and output predictability, and working

Photoshop. Emphasis on input and output predictability, and working with large file productions. Community colleges only. Restricted to: Community Colleges only. **Prerequisite(s):** ART 161.

ART 275. Introduction to Ceramics

3 Credits (2+4P)

Introduction to the technical processes and conceptual concerns of working with the ceramic material. Students will explore various methods of forming with earthenware to make both functional and expressive works out of clay.

ART 276. Ceramics I, B 3 Credits (2+4P)

Beginning ceramics, complementary half to ART 275. (ART 275 and ART 276 do not need to be taken consecutively.) Basic building techniques of coil, slab, and throwing are introduced. High-fire and lowfire clays are used.

ART 280. Introduction to Printmaking

3 Credits (2+4P)

Introduction to the field of printmaking through projects that focus on specific processes, such as relief, intaglio, collography, paper lithography, and a variety of transfer and stencil techniques. Students engage in several assignments that are collaborative, as well as individual projects designed for development of personal aesthetics.

ART 285. Introduction to Metals and Jewelry 3 Credits (2+4P)

Introduction to fundamental processes, design, and conceptual development for metal fabrication of jewelry and functional/non-functional objects.

ART 286. Stained Glass

3 Credits (2+4P)

Instruction in the fundamental fabrication and design techniques for stained glass. Introduction to visual decision making skills, historical, and critical issues of the medium. Community Colleges only.

ART 294. Special Topics in Studio

1-3 Credits

Specific subjects and credits to be announced in the Schedule of Classes. No more than 9 credits toward a degree.

Prerequisite: consent of instructor.

ART 295G. Introduction to Art History I 3 Credits

An introduction to the principles of art history within a chronological framework of the art of the Western World. All media will be discussed. From prehistoric times to the fourteenth century.

ART 296G. Introduction to Art History II

3 Credits

Continuation of ART 295, Art of the Western World from Late Gothic to the present. May be repeated up to 3 credits.

ART 298. Writing in Art

3 Credits

This reading- and writing-intensive course will introduce students to various approaches of writing about historical art.

ASTR-ASTRONOMY (ASTR)

ASTR 105G. The Planets

4 Credits (3+2P)

Comparative study of the planets, moons, comets, and asteroids which comprise the solar system. Emphasis on geological and physical processes which shape the surfaces and atmospheres of the planets. Laboratory exercises include analysis of images returned by spacecraft. Intended for non-science majors, but some basic math required. This lecture/lab course satisfies the New Mexico Common Core Area III: Lab Sciences requirement

ASTR 110G. Introduction to Astronomy 4 Credits (3+2P)

A survey of the universe. Observations, theories, and methods of modern astronomy. Topics include planets, stars and stellar systems, black holes and neutron stars, supernovas and gaseous nebulae, galaxies and quasars, and cosmology. Emphasis on physical principles involving gravity, light and optics (telescopes). Generally non-mathematical. Laboratory involves use of the campus observatory and exercises designed to experimentally illustrate principles of astronomy. This lecture/lab course satisfies the New Mexico Common Core Area III: Lab Sciences requirement.

ASTR 199. Introduction to Astronomy Lab, Special 1 Credit

This lab-only listing exists only for students who may have transferred to NMSU having taken a lecture-only introductory astronomy class, to allow them to complete the lab requirement to fulfill the general education requirement. Consent of Instructor required., at some other institution). Restricted to Las Cruces campus only.

Prerequisite(s): Must have passed Introduction to Astronomy lecture-only (e.g.

AUTO-AUTOMOTIVE TECHNOLOGY (AUTO)

AUTO 102. Electrical Measuring Instruments

2 Credits (1+2P)

Selection, operation, and care of electrical measuring instruments.

AUTO 103. Auto Mechanics Fundamentals

4 Credits (2+4P)

Theory and operation of all areas of auto mechanics. Basic repair and maintenance operations.

AUTO 105. Welding

4 Credits (2+4P)

Set-up and adjustment of oxyacetylene and arc welding equipment, identification of metals and rod application. Skill development in laying weld beads and different weld positions.

AUTO 111. Automotive Mechanics Basics 4 Credits

Basic maintenance procedures of the major components of the automobile using service repair manuals, hand and power tools, precision measurement equipment, fasteners and chemicals. Restricted to: Community Colleges only.

AUTO 112. Basic Gasoline Engines

5 Credits (2+6P)

Principles of gasoline engine operation. Identification, design, function of engine components; engine disassembly and reassembly; trouble shooting, and rebuilding heads.

AUTO 113. Automotive Electricity and Electronics PT I 4 Credits (2+4P)

Topics include mastery of DC electricity, use of digital multimeters, troubleshooting electrical problems in starting, charging and accessory systems. Restricted to Community Colleges only.

AUTO 114. Automotive Electricity and Electronics PT II 4 Credits (2+4P)

Advanced AC and DC automotive electronic circuits. Troubleshooting electronically controlled components including supplemental restraint systems and convenience accessories. May be repeated up to 4 credits. **Prerequisite(s)/Corequisite(s):** AUTO 113. Restricted to Community Colleges campuses only.

AUTO 115. Automotive Engine Repair 5 Credits (2+6P)

Principles of gasoline engine operation. Identification of engine parts, operation, and function. Disassembly and reassembly. Engine problem diagnoses (cooling system, lubrication system, engine noises). Restricted to Community Colleges only.

AUTO 117. Electronic Analysis and Tune-Up of Gasoline Engines 5 Credits (2+6P)

Theory and operation of ignition and emission control systems and fuel system. Use of troubleshooting equipment and diagnostic equipment. **Prerequisite:** AUTO 120 or consent of instructor.

AUTO 118. Technical Math for Mechanics

3 Credits (2+3P)

Mathematical applications for the automotive trade.

AUTO 119. Manual Transmission/Clutch

5 Credits (2+6P)

Manual transmission, transfer cases, and clutch operating principles. Students will diagnose problems, remove and replace, disassemble, repair, and assemble units.

AUTO 120. Electrical Systems

4 Credits (2+4P)

Troubleshooting and repair of starters, alternators, and associated circuits. Reading electrical diagrams, diagnosis and repair of electrical accessories.

Prerequisite: consent of instructor.

AUTO 122. Automotive Brakes

4 Credits (2+4P)

Focus is on theory, diagnosis, and service of drum, disc, and anti-lock braking systems, brake component machining, hydraulic component reconditioning, friction and hardware replacement. Restricted to Community Colleges only.

AUTO 124. Automotive Heating and Air Conditioning 4 Credits (2+4P)

R12 and R134A air conditioning systems maintenance diagnosis and repair. R12 to R134A conversion procedures. Troubleshooting automatic temperature controls and leak detection. Restricted to Community Colleges only.

AUTO 125. Brakes

5 Credits (2+6P)

Theory of operation, diagnosis, repair, and maintenance of disc and drum brakes; safety and use of special tools.

AUTO 126. Suspension, Steering, and Alignment

5 Credits (2+6P)

Types of steering systems, suspension maintenance and repair, fourwheel alignment procedures.

AUTO 127. Basic Automatic Transmission 4 Credits (2+4P)

Theory and operation of the automatic transmission; maintenance, troubleshooting, diagnosis, and repair of components.

AUTO 129. Automotive Steering and Suspension 4 Credits (2+4P)

Diagnosis/service of suspension components including shocks, springs, ball joints, manual and power steering systems and four wheel alignment are some areas covered. Restricted to Community Colleges only.

AUTO 130. Introduction to Transportation Industry 3 Credits

State and national traffic statutes that relate to the trucking industry. A Commercial Driver's License Learner s Permit will be obtained through successful completion of the course.

Prerequisites: Must be 18 years of age, have a current driver's license and consent of instructor.

AUTO 131. Class A CDL

3 Credits (1+4P)

Instruction in how to perform proper pre-trip inspection; hands-on training with a tractor-trailer unit on the backing range and street driving to develop skills necessary to pass Class A DCL exam. Restricted to Community Colleges campuses only.

Prerequisite(s): Class A CDL restricted license (permit) and either restriction of D.O.T.

AUTO 132. Automotive Air-Conditioning and Heating Systems 4 Credits (2+4P)

Theory and operation, reading schematic diagrams, troubleshooting, repair, and replacement operations performed.

AUTO 137. Fuel Systems and Emission Controls 4 Credits (2+4P)

Covers theory and operation of fuel system and emission control. Troubleshooting, vacuum diagrams, overhaul, repair and adjustment of

carburetion and fuel injection. Prerequisites: AUTO 117 or consent of instructor.

AUTO 139. Automotive Computer Controls

4 Credits (2+4P)

Same as OEPM 139.

AUTO 162. Advanced Non-Structural Repair I 4 Credits (2+4P)

This course will involve the students in all phases of minor non-structural collision damage repairs. It will encompass sheet metal repair, advanced panel replacement and alignment. **Prerequisite(s):** AUTO 161.

AUTO 163. Advanced Non-Structural Repair II 4 Credits (2+4P)

This course is a continuation of AUTO 162 with emphasis in all phases of minor non-structural damage repair. The student will be instructed in sheet metal repair and panel alignment as well as the R&I of automotive glass and related components.

Prerequisite(s): AUTO 162.

AUTO 164. Automotive Industry Collision Repair I 4 Credits (2+4P)

This advanced course is a continuation of AUTO 161, 162, and 163. This course will incorporate all areas of major non-structural collision damage repair. Through practical application the student will learn how to effectively repair all heavy collision damage using current I-CAR repair standards and procedures.

Prerequisite(s): AUTO 163.

AUTO 165. Automotive Industry Collision Repair II 4 Credits (2+4P)

This advanced course is a continuation of AUTO 164 with emplasis on time efficiency. This course will involve the student in all areas of major collision damage repair. The student will be exposed to all applicable I-CAR industry procedures and standards involved in sheet metal and composite panel repair.

Prerequisite(s): AUTO 164.

AUTO 172. Introduction to Automotive Refinishing 4 Credits (2+4P)

This course is designed to incorporate all aspects of surface preparation, paint safety, refinishing materials, and refinishing fundamentals. Students will receive instructions for the application of acrylic enamel and base coat/clear coat refinishing systems.

AUTO 174. Intermediate Automotive Refinishing 4 Credits (2+4P)

This course encompasses all areas of surface preparation, damage repair and refinishing procedures that are necessary for achieving a proper spot repair. Students will also be exposed to safe work habits in the refinishing area and correct automotive detailing procedures.

Prerequisite(s): AUTO 172.

AUTO 176. Automotive Color Adjustment & Blending 4 Credits (2+4P)

This course will help develop the skills needed to match any type of paint. It will expose the student to color theory, color evaluation, color matching, and other color adjustment factors. The student will be instructed in multiple panel paint blending techniques as well.

Prerequisite(s): AUTO 174.

AUTO 178. Automotive Overall Refinishing

4 Credits (2+4P)

This course encompasses all areas of automotive refinishing. This advanced course is a continuation of AUTO 176 with emphasis in achieving industry refinishing times and standards consistent with that of I-CAR. The student will be exposed to surface preparation and refinishing techniques involved with overall coat/clear coat refinishing system. **Prerequisite(s):** AUTO 176.

AUTO 181. Frame and Structural Repair 4 Credits (2+4P)

This course will involve the student in all areas of frame and structural damage repairs. Through theory and practical application, the student will learn how to diagnose and repair various types of damage include: mash, twist, sag, and side sway. This course will expose the students to safe work habits while using measuring and straightening equipment. **Prerequisite(s):** AUTO 165.

AUTO 182. Structural Panel Replacement

4 Credits (2+4P)

This course is a continuation of AUTO 181 with infancies in structural panel replacement. The student will be exposed to frame and unibody measuring equipment and their proper use in sectioning procedures. Through theory and practical application the student will learn how to ID structural components, properly separate spot welds, position and weld new body panels in place.

Prerequisite(s): AUTO 181.

AUTO 201. Engine Performance I 4 Credits (2+4P)

Theory, function, service and analysis of engine related subsystems including ignition, fuel, starting, and charging systems. Emphasis is placed on diagnosis and operation of electronic engine control management systems. Restricted to Community Colleges only.

AUTO 203. Engine Performance II 4 Credits (2+4P)

Study of engine management systems and emission control systems, their function and relationship to vehicle performance and air pollution. Emphasis is placed on the analysis and repair of non-compliant vehicles. Restricted to Community Colleges only.

AUTO 204. Engine Performance III 4 Credits (2+4P)

Study of advanced level diagnostic test procedures and the equipment used to analyze OBD-II emission and drivability concerns. Use of Digital Storage Oscilloscopes, current ramping, Scan Tool analysis of 4 and 5 gas analyzers is mastered. Hybrid vehicles and the latest engine control systems are introduced. Restricted to Community Colleges only.

AUTO 205. Manual Drive Train and Axles 4 Credits (2+4P)

Operation, diagnosis, maintenance, repair or replacement of manual transmissions, clutch assemblies, differentials, drivelines, axles, and manual transaxles. Restricted to Community Colleges only.

AUTO 206. Automatic Transmissions 5 Credits (2+6P)

Operation, diagnosis, maintenance, and repair of automatic transmissions including rear wheel drive, front wheel drive, and electronically controlled transmissions and transaxles. Restricted to Community Colleges only.

AUTO 208. Introduction to Alternative Fueled Vehicles 3 Credits

Course will familiarize student with conditions that are resulting in the alternative fueled vehicle movement as well as the design and safety precautions unique to each alternative fuel. Propulsion systems covered include electric vehicles, bio-fueled vehicles, hybrid-electric vehicles and hydrogen powered vehicles, along with other emerging technologies as appropriate. Restricted to: Community Colleges only. **Prerequisite(s):** AUTO 113 and AUTO 114.

AUTO 209. Hybrid Vehicle Service Techniques 3 Credits

Designed for experienced automotive technicians, this course will cover safety procedures, design, operational overview and service techniques as well as minor diagnosis and repair of all classifications of hybridelectric vehicles. Each student must possess legal Class '0' high voltage gloves and liners to attend this class. Restricted to: Community Colleges only.

Prerequisite(s): AUTO 113 and AUTO 114.

AUTO 221. Cooperative Experience I

1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U. **Prerequisite:** consent of instructor.

AUTO 255. Special Problems in Automotive Technology 1-5 Credits

Individual studies in areas directly related to automotive technologies. May be repeated for a maximum of 12 credits. **Prerequisite:** consent of instructor.

AUTO 295. Special Topics

1-6 Credits

Topics to be announced in the Schedule of Classes.

AVIM - AVIATION MAINTENANCE

AVIM 101. Aviation Science

3 Credits

Provides students with basic technical mathematics skills, an overview of general physics as applied to the work of an Airframe and Powerplant (A&P) technician, and instruction in the reading and interpreting of aircraft drawings. Restricted to Alamogordo campus only. **Prerequisite(s):** Appropriate Math placement score.

AVIM 102. Shop Practices

3 Credits

Introduces students to specialty tools, shop safety, workplace practices, basic aviation materials and processes. Students also learn to fabricate fluid lines and fittings, identify type fasteners, and processes for nondestructive testing. Restricted to Alamogordo campus only.

AVIM 103. Ground Operations

3 Credits

Identifies aircraft fuels, cleaning procedures and corrosion removal, as well as ground operation procedures including safety, fueling, and startup of aircraft. Restricted to Alamogordo campus only.

AVIM 104. Federal Regulations

2 Credits

Instruction on how to read, comprehend, and apply all FAA maintenance forms and publications as related to aircraft maintenance. Also describes all rights and privileges of A & P technicians. Restricted to Alamogordo campus only.

AVIM 105. Weight and Balance

2 Credits

Describes proper procedures for weighing and loading aircraft and center of gravity (C.G.) safety and procedures for jacking aircraft. Restricted to Alamogordo campus only.

AVIM 106. Basic Electricity

3 Credits

Explains theories and principles of electricity related to aircraft circuitry. Restricted to Alamogordo campus only.

AXED-AGRICULTURAL EXTN EDUC (AXED)

AXED 100. Introduction to Agricultural, Extension, and Technology Education

3 Credits

Orientation to programs, philosophies, competencies and leadership skills needed by professionals in agricultural and technology education, extension education, agricultural communications, and related career opportunities in industry, governmental agencies, and international organizations.

AXED 105. Techniques in Agricultural Mechanization 3 Credits (2+2P)

Development of competencies in agricultural mechanics including safety, tool identification, operation and maintenance of hand and power tools, cold metal, drafting, and plumbing procedures. Designed for any major wishing to improve mechanical skills needed in agriculturally related occupations in education and industry.

AXED 200. Special Topics

1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 6 credits toward degree.

AXED 201G. Effective Leadership and Communication in Agricultural Organizations

3 Credits (2+2P)

Theory and practice in leadership and communication for professionals who must work effectively in leadership and supervisory roles with people in agricultural business, industry, government agencies, and education. Course focuses on contemporary leadership theories. Oral communication skills in informative and persuasive speaking, parliamentary procedure, and for small groups are developed.

AXED 205. Metal Technology-Fabrication

3 Credits (2+4P)

Processes and procedures of metal fusion, including gas and electric welding techniques and safety. Designed for any major wishing to improve mechanical skills needed in agriculturally related occupations in education and industry.

AXED 230. Early Field-Based Experience in Extension and Industry 2 Credits (2)

First Hand view of the roles of professional educators through field experiences with Cooperative Extension or other government agencies. Includes 4 weeks of classroom instruction and 30 hours of observation in a work setting. Consent of Instructor required. Restricted to Las Cruces campus only.

AXED 232. Early Field-Based Experience in Agricultural and Technology Education

2 Credits

First-hand view of the roles of professional educators through field experiences in a secondary agricultural or technology education setting. Includes 4 weeks of classroom instruction and 30 hours of observations in a classroom setting. Consent of Instructor required.

AXED 240. Introduction to Agricultural Communication 3 Credits

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

B A-BUSINESS ADMINISTRATION (B A)

B A 104. Introduction to Business

3 Credits

Survey and integration of functions in business organizations within their social and economic environment. Community Colleges only.

B A 105. Special Topics

1-3 Credits

Current topics in business and economics.

B A 202. Small Business Enterprise

3 Credits

Appraisal of business functions within the framework of a small business organization.

B A 291. Business Administration and Economics Internship and Cooperative Education I

1-3 Credits

Introduction and applications of the principles of business administration and economics. Registration in one course allowed per co-op work phase; a minimum of 12 work weeks is required. Open only to students in the College of Business. Option of S/U or a grade. The amount of academic credit (1-3 cr.) will be determined by the academic experience, and not by the work experience.

BCHE-BIOCHEMISTRY (BCHE)

BCHE 140. Introduction to Biochemistry 1 Credit

A description of the nature of inquiry in biochemistry, especially with respect to the interaction of chemistry and biology. Both historical development and topics of current interest will be discussed. Graded S/U.

BCHE 241. Introduction to Research in Biochemistry 1-3 Credits

Techniques and procedures of biochemical research. May be repeated for a maximum of 3 credits.

Prerequisites: 8 credits of chemistry and 3.0 GPA in chemistry.

BCIS-BUSINESS COMPUTER SYSTEMS (BCIS)

BCIS 110. Fundamentals of Information Literacy and Systems 3 Credits

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communications, data analysis, information management and decisionmaking.

BCT-BUILDING CONSTRUCTION TECH (BCT)

BCT 100. Building Trades I

8 Credits (2+12P)

Equipment and general safety. Human relations, building construction surveying, footings, foundation form work, framing, sheathing, insulation. Basic electrical wiring and plumbing. Classroom instruction, on- the-job training, and problem solving.

BCT 101. Introduction to Construction I 2 Credits (2+1P)

Basic safety, including personal protective equipment, how to perform basic construction tasks safely, and what to do if an accident occurs. Includes basic construction methods. May be repeated up to 2 credits. Restricted to Community Colleges campuses only. **Corequisite(s):** BCT 102 and BCT 103.

BCT 102. Introduction to Construction II 2 Credits (2+1P)

Introduction to power and hand tools, blueprints, and basic rigging hardware and techniques. May be repeated up to 2 credits. Restricted to Community Colleges campuses only. **Corequisite(s):** BCT 101 and BCT 103.

BCT 103. Introduction to Construction Laboratory 3 Credits

Provides students the opportunity to practice skills they have acquired in BCT 101 and BCT 102. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Corequisite(s):** BCT 101 and BCT 102.

BCT 104. Woodworking Skills I

3 Credits (1+4P)

Use and care of hand tools and elementary power tools, safety procedures, and supervised project construction.

BCT 105. Woodworking Skills II

3 Credits (1+4P)

Advanced woodworking skills to include use of advanced power tools, power tool safety, and supervised construction. **Prerequisite:** BCT 104 or consent of instructor.

BCT 106. Woodworking Theory and Practice 3 Credits (2+2P)

History of wood manufacturing, industrial techniques, wood characteristics, stains and finishes. Design and construction of minor wood projects.

BCT 107. Painting I

4 Credits (2+4P)

Types and applications of paints and clear coatings. Use of fasteners, caulks, and sealants. Restricted to: Community Colleges only.

BCT 109. Plumbing I 3 Credits (2+3P)

Covers orientation to the trade. Students will learn about materials used in the plumbing industry and the different types of plumbing fixtures. It includes task-oriented projects in which the students apply many of the skills and knowledge that are presented through the National Center for Construction and Education Research (NCCER) Plumbing Program. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): BCT 101, BCT 102. Restricted to Community Colleges campuses only.

BCT 110. Blueprint Reading for Building Trades 4 Credits (2+4P)

Same as DRFT 151, OEET 101, OEPB 110.

BCT 111. Small Equipment Maintenance and Repair 4 Credits (2+4P)

Covers small engine theory, troubleshooting and repair, auto maintenance, hydraulic theory and repair lubricants, batteries and scheduled tool maintenance. Restricted to: Community Colleges only.

BCT 114. Basic Carpentry 3 Credits (1+4P)

Covers orientation to the trade; wood building materials, fasteners, and adhesives; detailed description and explanations of hand-operated and power tools, including safety; framing basics including laying out and constructing of wood floors, walls and ceilings and includes roughing in of door and window openings. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 115 and BCT 116.

BCT 115. Carpentry Level I 3 Credits (1+4P)

Describes the various kinds of roofs and provides instructions for lay out of the different roofing systems. Describes the various types of windows, skylights, and exterior doors and provides instruction for installation. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114 and BCT 116.

BCT 116. Basic Carpentry Lab 2 Credits

Provides students the opportunity to practice skills they have acquired in BCT 114 and BCT 115. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114 or BCT 115.

BCT 117. Plumbing 1A 3 Credits (2+2P)

This course will introduce students to the plumbing profession. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field. Restricted to Community Colleges campuses only.

BCT 118. Math for Building Trades 3 Credits

Geometry, algebra, arithmetic, and basic trigonometry pertaining to mathematical applications in the building trades field. Same as OEET 118, DRFT 118, OEPB 118.

Prerequisite: CCDM 103 N.

BCT 119. Plumbing 1B

3 Credits (2+2P)

This course continues the introduction of students to the plumbing profession. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field. Restricted to Community Colleges campuses only. **Prerequisite(s):** BCT 117.

BCT 121. Construction Law

3 Credits

Using the New Mexico Contractors Reference manual, this course covers licensing requirements and regulations, business, law and other important aspects of owning and running a construction business. Restricted to: Community Colleges only.

BCT 123. Residential Wiring I

3 Credits (2+3P)

Introduction to residential electrical wiring trade, electrical safety practices, basic electrical circuits and theory, reading and interpreting applicable construction prints/drawings, introduction to basic National Electric Code (NEC), and preparation for entry-level employment in residential electrical wiring. Restricted to Community Colleges campuses only.

BCT 130. Professional Development and Leadership 1 Credit

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing or participating in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: BCT majors. S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

BCT 150. Forklift Operation

1 Credit

Classroom instruction and hands-on practice to prepare students to operate a forklift safely in the workplace. Students will have the opportunity to earn a forklift operator's permit. Consent of Instructor required. Restricted to Community Colleges campuses only.

BCT 200. Building Trades II

8 Credits (2+12P)

Continuation of BCT 100: roofing; exterior and interior finish; masonry; door, window, and cabinet installation.

BCT 206. Advanced Cabinetmaking

3 Credits (1+3P)

Advanced cabinetmaking skills, to include expert use of hand and power tools, professional construction and finishing techniques.

Prerequisites: BCT 105, BCT 106, or consent of instructor.

BCT 209. Plumbing II

3 Credits (2+3P)

Continuation of BCT 109. Provides students the opportunity to gain more practice in the skills and knowledge learned in Plumbing I. Students will install fixtures and run the various plumbing supply lines from Plumbing Level I. The course included hands on projects in which the students apply many of the competencies that have been presented through the National Center for Construction and Education Research (NCCER) Plumbing Program. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): BCT 109.

BCT 217. Building and the Environment

3 Credits

Introduction to LEED's, and Green Building Fundamentals, sustainability, sustainable design and green building evaluating cost implication of green building. Describes site development; managing site water runoff, improving a project's water use efficiency. Discusses renewable energy sources, and introduces student to generating power on-site using renewable energy sources, improving a building's indoor environment quality, improving the building industries' environmental performance and environmental aspects of building maintenance, re-use and conservation.Restricted to: Community Colleges only.

BCT 218. Plumbing 2 4 Credits (2+4P)

This course builds on the skills and knowledge students have gained in previous BCT introduction to plumbing courses, focusing on installation of plumbing systems. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field. **Prerequisite(s):** BCT 117 and BCT 119.

BCT 219. Weatherization in Construction

3 Credits (2+2P)

Introduction to industry weatherization standards and practices utilized in the construction of buildings for the purpose of energy conservation. Economic and environmental impacts of the use of energy in heating and cooling building will be examined.

Prerequisite(s): BCT 101, BCT 102 and BCT 103.

BCT 221. Cooperative Experience I

1-4 Credits

Supervised cooperative work program. Student is employed in an approved occupation and is supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U. **Prerequisite:** consent of instructor.

BCT 222. Alternative Building 3 Credits (2+2P)

Exploration of different types of building techniques and materials other than the traditional wood framed structures. Materials and techniques will include adobe, straw bale, insulated concrete forms, rammed earth and structural insulated panels with an emphasis on "green building" methods. Restricted to: Community Colleges only.

BCT 223. Residential Wiring II

3 Credits (2+3P)

Introduction to electrical raceways and fittings; electrical conductors and cables; basic electrical construction drawings, residential electrical services, and electrical test equipment. Restricted to Community Colleges campuses only.

Prerequisite(s): BCT 123.

BCT 255. Special Topics 1-6 Credits (1-6)

Topics to be announced in the Schedule of Classes . May be repeated up to 12 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

BCT 290. Special Problems in Building Technology

1-4 Credits

Individual studies in areas directly related to building technologies. **Prerequisite:** consent of instructor.

BIOL-BIOLOGY (BIOL)

BIOL 101G. Human Biology

3 Credits

Introduction to modern biological concepts. Emphasis on relevance to humans and their relationships with their environment. Cannot be taken for credit after successful completion of BIOL 111G or BIOL 211G. Appropriate for non-science majors. Requires successful completion of BIOL 101GL in order to meet the NM Common Core Area III Laboratory Science requirements.

BIOL 101GL. Human Biology Laboratory 1 Credit

Laboratory for BIOL 101G. Laboratory experiences and activities exploring biological concepts and their relevance to humans and their relationship with their environment.

Prerequisite(s)/Corequisite(s): BIOL 101G.

BIOL 110G. Contemporary Problems in Biology 4 Credits (3+3P)

Fundamental concepts of biology will be presented using examples from relevant problems in ecology, medicine and genetics. For nonscience majors only. Community Colleges only.

BIOL 111G. Natural History of Life 3 Credits (3)

Survey of major processes and events in the genetics, evolution, and ecology of microbes, plants and animals, and their interactions with the environment. Appropriate for science and nonscience majors. Must be taken with BIOL 111L to meet general education requirements. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): Currently enrolled in MATH 120, grade of C- or better in MATH 120, or a Math Placement Exam score adequate to enroll in mathematics courses beyond MATH 120.

BIOL 111GL. Natural History of Life Laboratory

1 Credit

Laboratory experiments, demonstrations and exercises on interrelationships among organisms, biodiversity, processes of evolution, and interaction of organisms and their environment. Appropriate for science and nonscience majors. May be repeated up to 1 credits. **Prerequisite(s)/Corequisite(s):** BIOL 111G; Currently enrolled in MATH 120, grade of C- or better in MATH 120, or a Math Placement Exam score adequate to enroll in mathematics courses beyond MATH 120.

BIOL 150. Topics in Biology

1-3 Credits (1-3)

Introductory level coverage of biological topics. May be repeated up to 9 credits.

BIOL 154. Introductory Anatomy and Physiology 4 Credits (3+3P)

Survey of human structure and function (does not replace BIOL 190, BIOL 111G, or BIOL 211G as a prerequisite for advanced courses in biology). Restricted to: Community Colleges only.

BIOL 211G. Cellular and Organismal Biology 3 Credits

Principles of cellular structure and function, genetics, and organismal physiology. This course prepares the student for continuation in science or allied health fields. Suitable for all majors. Must be taken with BIOL 211L to meet general education requirements. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): a C- or better in MATH 120 or higher and a C- or better in CHEM 110G or CHEM 111G or CHEM 115.

BIOL 211GL. Cellular and Organismal Biology Laboratory 1 Credit

Laboratory demonstrations, experiments and exercises on molecular and cellular biology and organismal physiology. Must have passed BIOL 211G or be concurrently enrolled in BIOL 211G and BIOL 211L. Pre/ May be repeated up to 1 credits.

Prerequisite(s)/Corequisite(s): a C- or better in BIOL 211G, MATH 120 or higher, and a C- or better in CHEM 110G or CHEM 111G or CHEM 115.

BIOL 219. Public Health Microbiology

3 Credits

The characteristics of pathogenic microorganisms and the diseases that they cause. Will not meet the microbiology requirements for biology or medical technology majors.

Prerequisite: BIOL 211G and BIOL 211GL.

BIOL 221. Introductory Microbiology

3 Credits

Principles of isolation, taxonomy, and physiology of microorganisms. Restricted to Community Colleges campuses only. **Prerequisite(s):** CHEM 110G or CHEM 111G or CHEM 112G. **Corequisite(s):** BIOL 221 L.

BIOL 221 L. Introductory Microbiology Laboratory 1 Credit

A laboratory course to accompany BIOL 221 or BIOL 219. Prerequisite: BIOL 221 or BIOL 219 or concurrent enrollment.

BIOL 225. Human Anatomy and Physiology I 4 Credits (3+3P)

The first in a two-course sequence that covers the structure and function of the human body, including terminology of the human gross anatomy, chemistry overview, cell structure, cell physiology (including DNA, protein synthesis and cell division). The organization of cells and tissues and their metabolic and homeostatic processes and regulation are also covered. Physical and chemical operation of organs and systems of the human body include the intergumentary, skeletal, muscular, and nervous systems. Pre/ Restricted to: Community Colleges only. **Corequisite(s):** CHEM 110G or CHEM 111G.

BIOL 226. Human Anatomy and Physiology II 4 Credits (3+3P)

The second in a two-course sequence that covers the structure and function of the human body. Includes the physical and chemical operation of the organs and systems of the human body, including endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary and reproduction system. Concepts of nutrition, metabolism, energy, fluid and electrolyte balance, heredity pregnancy and human embryonic and fetal development are also covered. Restricted to: Community Colleges only.

Prerequisite(s): BIOL 225, CHEM 110G or CHEM 111G.

BIOL 227. Pathophysiology

3 Credits

A study of the structure and function of the human body with specialized emphasis on disease processes.

Prerequisite(s): AHS 153 or BIOL 225 Corequisite/Prerequisites(s): AHS 154 or BIOL 226 Restricted to: Community Colleges only.

BIOL 250. Special Topics

1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 6 credits. Community Colleges only.

BIOL 254. Human Physiology

3 Credits

Physical and chemical operation of the organs and systems of the human body. Not open to students who have passed BIOL 354 or BIOL 381. **Prerequisite(s):** Grade of at least C- in BIOL 211G; BIOL 211GL; CHEM 111G or CHEM 110G.

BIOL 262. Human Pathophysiology I

3 Credits

The first in a two-course sequence that covers changes in body physiology that result from disease or injury. Includes a general introduction to pathophysiology as well as an overview of altered cellular and tissue biology, injury, inflammation, and neoplasia. Students will also explore deviation from fluid, hemodynamic, and endocrinologic balance. Topics related to the science of pathophysiology, including pathology, pathogenesis, etiology, epidemiology, and clinical manifestations, are also discussed throughout the course where relevant. Grade of C- or higher in microbiology is recommended. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of C- or higher in BIOL 225 and BIOL 226.

BIOL 263. Pathophysiology II **3 Credits**

The second in a two-course sequence that covers changes in body physiology that result from disease or injury. This course focuses on the pathophysiology of the nervous, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Topics related to the science of pathophysiology, including pathology, pathogenesis, etiology, epidemiology, and clinical manifestations, are also discussed throughout the course where relevant. Grade of C- or higher in microbiology is recommended. Restricted to Community Colleges campuses only. Prerequisite(s): Grade of C- or higher in BIOL 225, BIOL 226, and BIOL 262.

BLAW-BUSINESS LAW (BLAW)

BLAW 230. Business Law

3 Credits

Introduction to law in general and application to business specifically; comprehensive study of the law of contracts; and the principal and agent relationship. Offered at all NMSU Community Colleges except Dona Ana Community College. Credit may not be earned in both BLAW 230 and BLAW 317.

BMGT- BUSINESS MANAGEMENT

BMGT 110. Introduction to Business

3 Credits

Fundamental concepts and terminology of business including areas such as management, marketing, accounting, economics, personnel, and the global environment in which they operate. May be repeated up to 3 credits. Crosslisted with: BUSA 111. Restricted to Community Colleges campuses only.

BMGT 112. Banks and Your Money **3 Credits**

Banking in today's economy: language and documents of banking, check processing, teller functions, deposit function, trust services, bank bookkeeping, loans, and investments. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

BMGT 126. Retail Management **3 Credits**

Phases of retailing, including types of retail outlets and basic problems of organizing and operating a retail store. Restricted to: Community Colleges only.

BMGT 132. Principles of Selling

3 Credits

Analysis of customer behavior, persuasive communication, process of the sales interview. Restricted to: Community Colleges only.

BMGT 136. Forecasting Business Activity 3 Credits

Course covers the important elements of forecasting all types of business activities including inventory control, revenue forecasts, staffing, and other industry specific activities using metrics and data analysis processes. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. Prerequisite(s): BMGT 110 or BUSA 111.

BMGT 138. Advertising

3 Credits

Psychological approach to non-personal consumer persuasion; applied techniques in media selection, layout mechanics, production methods, and campaign structures. Restricted to: Community Colleges only.

BMGT 140. Principles of Supervision I **3 Credits**

Principles of supervision emphasizing planning, organization, rating of employees and procedures to develop good morale. Introduction to interpretation of case studies. Restricted to: Community Colleges only.

BMGT 150. Income Taxation **3 Credits**

Federal income taxation of individuals, sole proprietorships, partnerships, corporations, trusts, and estates with particular reference to CLU, life insurance and annuities. Restricted to: Community Colleges only.

BMGT 155. Special Topics I

1-3 Credits (1-3)

Introductory special topics of lower division level work that provides a variety of timely subjects and content material. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

BMGT 160. Self-Presentation and Etiquette 3 Credits

Introduction to business etiquette based on tradition, social expectations, and professional behavior standards. Restricted to: Community Colleges only.

BMGT 191. ENACTUS (Students in Free Enterprise) 1 Credit

ENACTUS is an international organization promoting and teaching business entrepreneurship. Students learn teamwork, leadership, and networking skills by participating in regional and national business competitions and community service projects. May be repeated up to 6 credits. Restricted to: BMGT or Pre-Business majors. Restricted to Community Colleges only.

BMGT 201. Work Readiness and Preparation 3 Credits

Instruction in methods of selection, seeking, acquiring and retaining employment. Addresses work success skills, business etiquette, employer expectation and workplace norms. Restricted to Community Colleges campuses only.

BMGT 205. Customer Service in Business 3 Credits

Establishes concepts of service quality in relationship to business success and maximization of returns to the organization. Explores techniques for delivering quality and service in a variety of business settings. Restricted to: Community Colleges only.

BMGT 208. Business Ethics 3 Credits

The course examines the underlying dimensions of ethics in business, investigating ethics in relationship to the organization, the stakeholders, and society. Exploration of ethical issues from a historical context, analyzing actual events through the lens of business decision making, including legal/political, sociocultural, economic, and environmental considerations will be undertaken. Restricted to Community Colleges campuses only.

BMGT 210. Marketing

3 Credits

Survey of modern marketing concepts and practices focusing on the marketing mix: product, pricing, promotion, and distribution strategies. Topics include: the marketing environment, consumer behavior, marketing research, target marketing, and the ethical and social responsibilities of marketers. May be repeated up to 3 credits. Crosslisted with: MKTG 203. Restricted to Community Colleges campuses only. Prerequisite(s): BMGT 110 or BUSA 111.

BMGT 216. Business Math

3 Credits

Application of basic mathematical procedures to business situations, including percentage formula applications, markup, statement analysis, simple and compound interest, and annuities. Restricted to: Community Colleges only.

Prerequisite(s): CCDM 103 N or satisfactory math score on ACT.

BMGT 221. Internship I

1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: BMGT majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

BMGT 225. Introduction to Commercial Lending 3 Credits

Commercial lending overview, the lending process, portfolio management, and regulation and business development. Restricted to: Community Colleges only.

Prerequisite(s): BMGT 112.

BMGT 231. Legal Issues in Business 3 Credits

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. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

BMGT 232. Personal Finance

3 Credits

Budgeting, saving, credit, installment buying, insurance, buying vs. renting a home, income tax statement preparation, investment, and estate disposal through will and trust. Restricted to: Community Colleges only.

BMGT 235. Credit Administration 3 Credits

Covers factors influencing and determining loan policy: methods of credit investigation and analysis, credit techniques, credit problems, and types of loans. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BMGT 112.

BMGT 239. Visual Marketing Techniques 3 Credits

Provides a basic understanding of visual marketing and merchandising techniques. The importance of effective presentation of a store and its merchandise is covered, as is line, balance and artistic display. Restricted to: Community Colleges only.

BMGT 240. Human Relations

3 Credits

Human interactions in business and industrial settings. Motivation and learning experiences as related to problems of the worker and supervisor. Practical applications of human behavior. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

BMGT 248. Introduction to Quality Management 3 Credits

Introductory practices of total quality management practices aimed at all levels of an organization to continually improve performance to include competitiveness in today s business world. Restricted to: Community Colleges only.

BMGT 250. Diversity in the Workplace 3 Credits

Concepts of culture, diversity, prejudice, and discrimination within the domestic workforce/society. Restricted to Community Colleges campuses only.

Prerequisite(s): BMGT 110 or BUSA 111.

BMGT 260. Real Estate Practice 3 Credits

This course is a requirement for licensure in real estate for the state of New Mexico. Topics covered include: real estate finance, settlement, foreclosure, federal taxation, valuation and appraisal, land descriptions and math skills. These topics are requirements of the New Mexico Real Estate Commission. Restricted to: Community Colleges only.

BMGT 264. Real Estate Law 3 Credits

This course is a requirement for licensure in real estate for the state of New Mexico. Topics covered include: ownership of real estate, real estate brokerage relationships, contracts, environmental concerns and federal laws that affect real estate. These topics are requirements of the New Mexico Real Estate Commission. Restricted to: Community Colleges only. Crosslisted with: PL S 264

BMGT 272. E-Commerce Operations 3 Credits

Includes the many forms of e-commerce and emerging technologies that will impact the business of tomorrow. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 105 or CS 110 or BCIS 110.

BMGT 275. Entrepreneur I

3 Credits

Introduces students to the concept of entrepreneurship and the the process of business startups. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BMGT 110 or BUSA 111.

BMGT 277. Entrepreneurship II - Small Business Management 3 Credits

This course is designed to acquaint the student with the opportunities encountered in the management and operations of a small business enterprise. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BMGT 275.

BMGT 280. Introduction to Human Resources 3 Credits

Personnel functions encompassing job analysis, recruitment, selection, training, appraisals, discipline, and terminations. Restricted to Community Colleges campuses only.

Prerequisite(s): BMGT 110 or BUSA 111 or B A 104.

BMGT 282. Introduction to International Business Management 3 Credits

Overview of the social, economic and cultural environment of international business transactions. Restricted to Community Colleges only.

Prerequisite(s): BMGT 110 or BUSA 111.

BMGT 285. Introduction to Manufacturing Operations 3 Credits

Introduction to issues related to manufacturing, including an overview of the production function, product design and development, location, layout, forecasting, planning, purchasing, materials/inventory, and quality management. Restricted to Community Colleges campuses only. **Prerequisite(s):** (BMGT 110 or BUSA 111) and (BMGT 140 or MGT 201).

BMGT 286. Introduction to Logistics

3 Credits

Overview on the planning, organizing, and controlling of transportation, inventory maintenance, order processing, purchasing, warehousing, materials, handling, packaging, customer service standards, and product scheduling. Restricted to: Community Colleges only.

BMGT 287. Introduction to Export/Import 3 Credits

Procedures and documentation for exporting and importing products. Emphasis on NAFTA regulations and other U.S. border operations crossings. Restricted to Community Colleges only. **Prerequisite(s):** BMGT 110 or BUSA 111.

BMGT 290. Applied Business Capstone 3 Credits

Refines skills and validates courses taken in BMGT program. Business simulations, case studies and projects used to test and improve business practices. Student must be within 25 credits of graduation. May be repeated up to 3 credits. Restricted to: BMGT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): (BMGT 110 or BUSA 111), and (BMGT 140 or MGT 201), and (BMGT 240 or SOC 101 or PSY 201), and MKTG 203 and FIN 206.

BMGT 298. Independent Study

3 Credits

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Sophomore standing with 3.0 GPA.

BOT-BUSINESS OFFICE TECHNOLOGY (BOT)

BOT 101. Keyboarding Basics

3 Credits (2+2P)

Covers correct fingering and mastery of the keyboard to develop skillful operation. Formatting basic business letters, memos, and manuscripts.

BOT 102. Keyboarding: Document Formatting

3 Credits (2+2P)

Designed to improve keyboarding speed and accuracy; introduce formats of letters, tables and reports. A speed and accuracy competency requirement must be met.

Prerequisite: BOT 101 or consent of instructor.

BOT 105. Business English I

3 Credits

Training and application of the fundamentals of basic grammar, capitalization and sentence structure (syntax).

BOT 106. Business Mathematics

3 Credits (2+2P)

Mathematical applications for business, including training in the touch method of the 10-key calculator.

Prerequisite: CCDM 103 N or adequate score on math placement exam.

BOT 109. Business English II 3 Credits

Training and application of the fundamentals of punctuation, numbers, basic writing and editing skills.

Prerequisite: C or better in BOT 105.

BOT 110. Records Management

3 Credits

Principles, methods and procedures for the selection, operation and control of manual and automated records systems.

BOT 120. Accounting Procedures I

3 Credits (2+2P)

Business accounting principles and procedures. Use of special journals, cash control, and merchandising concepts. Reports for sole proprietorships.

BOT 121. Accounting Procedures II 3 Credits (2+2P)

Continuation of BOT 120, emphasizing accounting principles and procedures for notes and interest, depreciation, partnerships and corporations, cash flow and financial statement analysis. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 120 or ACCT 221.

BOT 135. Keyboarding Technique Review

3 Credits

Emphasis on improving keyboarding speed and accuracy. **Prerequisite:** BOT 101 or equivalent.

BOT 140. Payroll Accounting 3 Credits (2+2P)

Payroll procedures including payroll tax forms and deposits. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ACCT 221 or BOT 120.

BOT 150. Medical Terminology

3 Credits

Understanding of the basic elements of medical words. Use of medical abbreviations. Same as NURS 150 and OEHO 120. May be repeated up to 3 credits. Crosslisted with: NURS 150, AHS 120 and HIT 150. Restricted to Community Colleges campuses only.

BOT 169. Spanish Grammar for Business Administration 3 Credits

Introductory course in Spanish grammar and practical business terms required for the proper application of fundamental oral and written business communication skills for Spanish speakers in the field of business administration. Restricted to Community Colleges campuses only.

Prerequisite(s): Spanish-speaking ability and computer keyboarding ability.

BOT 170. Office Communications in Spanish I 3 Credits

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. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 169, Spanish-speaking ability, and computer keyboarding ability.

BOT 171. Office Communications in Spanish II 3 Credits

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. **Prerequisite:** BOT 101 or BOT 170.

BOT 191. Taking Minutes & Proofreading 3 Credits

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. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 109 or consent of instructor.

BOT 202. Keyboarding Document Production 3 Credits (2+2P)

Further development of keyboarding speed and accuracy. Production of complex letters, memos, tables, reports and business forms. A speed and accuracy competency requirement must be met.

Prerequisites: BOT 102 and BOT 109, or consent of instructor.

BOT 203. Office Equipment and Procedures I

3 Credits (2+2P)

Office organization, telephone techniques, equipment and supplies, handling meetings, human relations, mail procedures, and travel. **Prerequisites:** BOT 213 or C S 110G or consent of instructor.

BOT 205. Accounting Software I

3 Credits (2+2P)

Introduction to accounting software. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Working knowledge of computers and accounting or consent of instructor.

BOT 206. Accounting Software II

3 Credits (2+2P)

Accounting software and office applications. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** BOT 121 or BOT 215.

BOT 207. Machine Transcription

3 Credits (2+2P)

Creating office documents using transcribing equipment and microcomputer software. Emphasis on proofreading, editing and grammar.

Prerequisites: minimum keyboarding of 45 wpm and C or better in BOT 105 or BOT 109 or equivalent and BOT 211 or BOT 213.

BOT 208. Medical Office Procedures

3 Credits (2+2P)

Current computerized and traditional administrative medical office procedures will be introduced. Practical knowledge on managing required record keeping in a medical office environment will be emphasized. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 109 or ENGL 111G, HIT 150 or AHS 120, and computer keyboarding ability or consent of instructor.

BOT 209. Business and Technical Communications 3 Credits

Effective written communication skills and techniques for career success in the work place. Composition of letters, memos, short reports, forms, and proposals, and technical descriptions and directions.

Prerequisites: ENGL 111G and computer keyboarding ability or consent of instructor.

BOT 211. Information Processing I 3 Credits (2+2P)

Defining and applying fundamental information processing concepts and techniques using the current version of leading software. Restricted to Community Colleges only.

Prerequisite(s): BOT 101 or consent of instructor.

BOT 213. Word Processing I 3 Credits (2+2P)

Operation and function of a word processor. Specific equipment to be announced in the Schedule of Classes.

Prerequisite: BOT 101 or keyboarding proficiency.

BOT 214. Word Processing II

3 Credits (2+2P)

Advanced operation and functions of a word processor. Specific equipment to be announced in the Schedule of Classes. **Prerequisite:** BOT 213 or consent of instructor.

BOT 215. Spreadsheet Applications

1-3 Credits

Use of spreadsheets to include graphics and business applications. Same as OECS 215. May be repeated under different subtitles listed in the Schedule of Classes.

BOT 217. Powerpoint Presentation

3 Credits

Comprehensive, hands-on approach to learning and applying basic and advanced features of PowerPoint. These include text enhancements, objects, fills, colors, animation, charts, sound, video, and hyperlinks. Students demonstrate appropriate audience and communication tools to deliver presentations.

Prerequisites: BOT 211 or ability to demonstrate keyboarding and Windows proficiency.

BOT 218. Information Processing II

3 Credits (2+2P)

Advanced information processing techniques using current version of leading software. May be repeated for a maximum of 6 credits. **Prerequisite:** BOT 211 or consent of instructor.

BOT 220. Internship in Business Office Technology 2 Credits

Experience in a supervised office position. Student must work at least eight hours per week. May be repeated for a maximum of 4 credits. **Prerequisites:** sophomore standing and consent of instructor.

BOT 221. Internship I

1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: BOT & HIT majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

BOT 222. Internship II

1-3 Credits

Continuation of BOT 221. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: BOT & HIT majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. **Prerequisite(s):** BOT 221 and consent of instructor.

BOT 223. Medical Transcription I

3 Credits (2+2P)

Concepts in medical transcription are introduced on how to produce a variety of reports required in a medical office or facility utilizing accurate medical terminology, spelling, grammar, and document formatting. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 150 or AHS 120 and HIT 158 and BOT 209.

BOT 228. Medical Insurance Billing

3 Credits (2+2P)

Comprehensive overview of the insurance concepts and applications required for successfully and accurately completing and submitting insurance claims and reimbursement processes for various insurance carriers, both private and government, will be emphasized. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 150 or AHS 120 and BOT 208.

BOT 233. Advanced Medical Transcription

3 Credits (2+2P)

Builds upon the concepts introduced in Medical Transcription I providing greater understanding of how to produce advanced reports dictated by physicians with increasing speed and accuracy. Emphasis will be on proofreading and editing of operative reports, patient history and physicals, office notes, labor and delivery reports, consultation reports, discharge summaries, and other medical reports. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 223 and HIT 130.

BOT 239. Personal Development

3 Credits

Development of a marketable, employable office systems person, to include interview, voice, manners, and apparel.

BOT 240. Introduction to Individual Taxation

3 Credits

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.

BOT 241. Auditing and Business Issues 3 Credits

Introduction to basic auditing concepts, the purpose for the auditing process, and requirements of persons assisting with the audit process. The course will also deal with issues of business law including contracts, sales, torts, strict liability, and business ethics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** BOT 120 or ACCT 221.

BOT 244. Tax Preparation

3 Credits

Introduces basic federal and state tax codes for preparing individual income tax returns. Emphasis on use of tax software. **Prerequisite:** keyboarding proficiency.

BOT 250. Electronic Office Systems 3 Credits (2+2P)

Management of the electronic office. Office use of computers, printers, fax machines, copiers, and scanner concepts will be covered. **Prerequisite:** BOT 211.

BOT 255. Special Topics

1-4 Credits

Specific subjects to be announced in the Schedule of Classes.

BOT 260. Bookkeeping Simulation Capstone 3 Credits (2+2P)

Refines the professional and technical skills students have learned while completing the BOT-Bookkeeping Assistant Option curriculum by demonstrating how coursework ties together. Designed as a bookkeeping assistant capstone course.

Prerequisite(s): BOT 121 or ACCT 221, BOT 140, BOT 205, and BOT 244, or consent of instructor.

BOT 270. Business Office Technology Capstone 3 Credits (2+2P)

Refines professional skills learned in the BOT program and ties all BOT coursework together. Restricted to: Community Colleges only. **Prerequisite(s):** BOT 102; and BOT 120; and BOT 209 or ENGL 203G or ENGL 218G; and BOT 211 or OECS 211.

BUSA-BUSINESS ADMINISTRATION (BUSA)

BUSA 111. Introduction to Business 3 Credits

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. May be repeated up to 3 credits.

C D-COMMUNICATION DISORDERS (C D)

C D 221. Introduction to Communication Disorders 3 Credits

Basic information about speech, language, and hearing disorders; orientation to the professions of speech-language pathology and audiology.

C E-CIVIL ENGINEERING (C E)

C E 109. Computer Drafting Fundamentals

3 Credits (2+2P)

Same as DRFT 109, E T 109, SUR 109.

C E 151. Introduction to Civil Engineering

3 Credits

Problem solving and use of computer software for civil engineering applications. May be repeated up to 3 credits. **Prerequisite(s)/Corequisite(s):** MATH 121G.

C E 160. Geology for Engineers

4 Credits (3+3P)

Basic concepts of geology, earth materials, and earth processes as they relate to engineering practice. Restricted to Las Cruces campus only.

C E 198. Special Topics

1-3 Credits

May be repeated for a maximum of 6 credits. **Prerequisite:** consent of department head.

C E 233. Mechanics-Statics

3 Credits

Engineering mechanics using vector methods. May be repeated up to 3 credits.

Prerequisite(s): MATH 192G, PHYS 215G and cumulative GPA of 2.0.

C E 234. Mechanics-Dynamics

3 Credits

Kinematics and dynamic behavior of solid bodies utilizing vector methods. May be repeated up to 3 credits. Crosslisted with: M E 234. **Prerequisite(s):** C E 233, MATH 192G, PHYS 215G.

C E 256. Environmental Engineering and Science 3 Credits

Principles in environmental engineering and science: physical chemical systems and biological processes as applied to pollution control. Crosslisted with: E S 256

Prerequisite(s): CHEM 111 and MATH 191G.

C E 256 L. Environmental Science Laboratory 1 Credit

Laboratory experiments associated with the material presented in C E 256. Same as E S 256L.

Corequisite: C E 256.

C E 298. Special Topics

1-3 Credits

May be repeated for a maximum of 6 credits. **Prerequisite:** consent of department head.

C EP-COUNSELING & EDUC PSY (C EP)

C EP 110G. Human Growth and Behavior

3 Credits

Introduction to the principles of human growth and development throughout the life span.

C EP 199. Academic Excellence

1 Credit

Academic curriculum of excellence that includes the development of collaborative learning and student success environment, learning diverse learning styles and multiple intelligences, and developing multicontextual academic communication styles. Students must enroll in course for both Fall and Spring semesters. Course does not count toward CEP minor. May be repeated up to 2 credits.

C EP 210. Educational Psychology

3 Credits

Psychological foundations as they apply to the learner in the class room setting.

C EP 215. The Preschool Child

3 Credits

Survey of psychological development from conception to age five.

C EP 240. Adolescence in School Settings

3 Credits

Survey of psychological development during the adolescent years.

C EP 298. Exploration of Counseling & Community Psychology 3 Credits

An exploration of careers, activities, & techniques in counseling, school, and community psychology. Course does not count towards CEP minor. May be repeated up to 6 credits.

C EP 298 H. Exploration of CCP

3 Credits

An exploration of careers, activities, & techniques in counseling, school, and community psychology. Taught with 298 with differentiated instruction and/or independent project to be determined. Restricted to Las Cruces campus only.

C EP 299. Academic Excellence Classes 1-6 Credits (1-6)

Academic curriculum of excellence that includes an in-depth understanding of the elements that promote student academic success. Students will develop leadership and presentation skills needed to forge effective student mentor relationships and conduct outreach to campus and local community leaders to cultivate a collaborative learning environment. May be repeated up to 6 credits.

C J-CRIMINAL JUSTICE (C J)

C J 101G. Introduction to Criminal Justice

3 Credits

Examination of crime and justice within the broader social and cultural context of U.S. society from interdisciplinary social science perspectives. Includes critical analysis of criminal justice processes and the ethical, legal, and political factors affecting the exercise of discretion by criminal justice professionals.

C J 199. Special Topics in Criminal Justice I

1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated under different topics for a maximum of 6 credits.

C J 205. Criminal Law

3 Credits

Rules, principles, and doctrines of criminal liability in the United States. The historical development, limits, and functions of the substantive criminal law. May be repeated up to 3 credits.

C J 210. The American Law Enforcement System 3 Credits

Historical and philosophical foundations of law and order. An in-depth examination of the various local, state, and federal law enforcement agencies.

C J 221. Fundamentals of Criminal Investigation 3 Credits

Investigation procedures from crime scene searches, collection of evidence, and case preparation. Community Colleges only. (Note: students completing C J 221 may not take C J 321.)

C J 230. Introduction to Corrections

3 Credits

Development of correctional philosophy, theory, and practice. Instructional and non-institutional alternatives available in the corrections process.

C J 250. Courts and the Criminal Justice System

3 Credits

Structures and functions of American courts. Roles of attorneys, judges, and other court personnel; operation of petit and grand juries, trial and appellate courts.

C J 293. Field Experience in Criminal Justice 3-6 Credits

Field experience in a public criminal justice agency or equivalent private sector organization. Supervised internship experience, conferences, and observations. Restricted to majors. Community Colleges only.

Prerequisites: C J 101G, prior arrangement and consent of instructor and a GPA of 2.0 or better in major.

C S-COMPUTER SCIENCE (C S)

C S 110. Computer Literacy

3 Credits

This course provides a broad introduction to computing, including computer and information technology concepts; economic and social implications of technology; database management, spreadsheet, word processing, and presentation applications.

C S 111. Computer Science Principles 4 Credits (3+2P)

This course provides a broad and exciting introduction to the field of computer science and the impact that computation has today on every aspect of life. It focuses on exploring computing as a creative activity and investigates the key foundations of computing: abstraction, data, algorithms, and programming. It looks into how connectivity and the Internet have revolutionized computing and demonstrates the global impact that computing has achieved, and it reveals how a new student in computer science might become part of the computing future. **Prerequisite(s):** MATH 120 or higher.

C S 117. Introduction to Computer Animation 3 Credits

Introductory course for learning to program with computer animation as well as learning basic concepts in computer science. Students create interactive animation projects such as computer games and learn to use software packages for creating animations in small virtual worlds using 3D models. Recommended for students considering a minor/major in computer science or simply interested in beginning computer animation or programming.

C S 150. C Programming

3 Credits (2+2P)

Programming in the C language. May be repeated up to 3 credits. **Prerequisite(s):** MATH 120 or higher.

C S 151. C++ Programming

3 Credits (2+2P)

Introduction to object-oriented programming in the C++ language. May be repeated up to 3 credits. **Prerequisite(s):** MATH 120 or higher.

C S 152. Java Programming

3 Credits (2+2P)

Programming in the Java language. May be repeated up to 3 credits. **Prerequisite(s):** MATH 120 or higher.

C S 153. Python Programming I

3 Credits

This course is an introduction to programming in the Python language, covering fundamental scripts, data types and variables, functions, and simple object creation and usage. The focus will be on preparing students to use Python in their own areas. No prior programming experience is required.

Prerequisite(s): MATH 120 or higher.

C S 154. Python Programming II 3 Credits

This course covers advanced Python programming, including classes, objects, and inheritance, embedded programming in domain applications, database interaction, and advanced data and text processing. The focus will be on preparing students to use Python in their own areas. **Prerequisite(s):** C S 153 or C S 453.

C S 155. Internet Programming I

3 Credits

This course is an introduction to programming for the Web in PHP and Javascript, covering fundamental web scripting ideas, CSS, data types and variables, functions, simple object creation and usage. Javascript usage will focus on dynamic page content. No prior programming experience is required, though a basic understanding of HTML will be assumed.

Prerequisite(s): MATH 120 and a basic understanding of HTML.

C S 156. Internet Programming II

3 Credits

This course covers advanced web scripting, including Javascript with AJAX, PHP integration with databases, object oriented features of PHP and Javascript, advanced CSS usage, and using web application frameworks.

Prerequisite(s): C S 155 or C S 455.

C S 157. Topics in Software Programming and Applications 3 Credits (2+2P)

Current topics in computer programming and software applications. Topic announced in the Schedule of Classes. May be repeated if subtitle is different.

C S 158. R Programming I

3 Credits

This course is an introduction to data processing in the R language, covering fundamental script configuration, data types and data collections, R control structures, and basic creation of graphs and data visualizations. This course will not focus on the statistical capabilities of R, though some basic statistical computations will be used. **Prerequisite(s):** MATH 121G.

C S 159. R Programming II

3 Credits

This course covers advanced R programming, including advanced data collection processing, advanced data visualizations, object oriented features of R, and file processing. It is recommended that students have one statistics course before taking this course.

Prerequisite(s): C S 158 or C S 458.

C S 171G. Introduction to Computer Science 4 Credits (3+2P)

Computers are now used widely in all area of modern life. This course provides understanding of the theoretical and practical foundations for how computers work, and provides practical application and programming experience in using computers to solve problems efficiently and effectively. The course covers broad aspects of the hardware, software, and mathematical basis of computers. Weekly labs stress using computers to investigate and report on data-intensive scientific problems. Practical experience in major software applications includes an introduction to programming, word processing, spreadsheets, databases, presentations, and Internet applications. **Prerequisite(s):** MATH 210G or MATH 120 or higher.

C S 172. Computer Science I

4 Credits (3+2P)

Computational problem solving; problem analysis; implementation of algorithms using Java. Object-oriented concepts, arrays, searching, sorting, and recursion. May be repeated up to 4 credits. Crosslisted with: C S 460.

Prerequisite(s): MATH 121G or higher; C S 111 or successful placement.

C S 209. Special Topics.

1-3 Credits

May be repeated for a maximum of 12 credits.

C S 271. Object Oriented Programming 4 Credits (3+2P)

Introduction to problem analysis and problem solving in the objectoriented paradigm. Practical introduction to implementing solutions in the C++ language. Pointers and dynamic memory allocation. Handson experience with useful development tools. May be repeated up to 4 credits.

Prerequisite(s): At least a C- in C S 172 or E E 112.

C S 272. Introduction to Data Structures

4 Credits (3+2P)

Design, implementation, use of fundamental abstract data types and their algorithms: lists, stacks, queues, deques, trees; imperative and declarative programming. Internal sorting; time and space efficiency of algorithms.

Prerequisite(s): At least a C- in C S 172, or placement.

C S 273. Machine Programming and Organization 4 Credits (3+2P)

Computer structure, instruction execution, addressing techniques; programming in machine and assembly languages. May be repeated up to 4 credits.

Prerequisite(s): At least a C- in C S 172 or E E 112.

C S 278. Discrete Mathematics for Computer Science 4 Credits (3+2P)

Discrete mathematics required for Computer Science, including the basics of logic, number theory, methods of proof, sequences, mathematical induction, set theory, counting, and functions. Crosslisted with: MATH 278.

Prerequisite(s): At least C- in C S 172.

CCDE-DEVELOPMENTAL ENGLISH (CCDE)

CCDE 105 N. Effective Communication Skills

4 Credits (3+2P)

Instruction and practice in basic communication, to include written and oral presentations. Develops thinking, writing, speaking, reading, and listening skills necessary for successful entry to college and university classes. Provides laboratory. RR applicable.

CCDE 110 N. General Composition

4 Credits (3+2P)

Instruction and practice in preparation for college-level writing. Students will develop and write short essays. Provides laboratory. May be repeated up to 4 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

CCDL-DEVELOPMENTAL ESL (CCDL)

CCDL 101 N. Basic Skills in English as a Second Language I 4 Credits (3+2P)

Developmental studies course for ESL students. Development of basic skills in speaking, listening, reading, and writing English as a second language with emphasis on speaking and listening. Pronunciation stressed. Course intended for U.S. citizens and residents who are nonnative speakers of English.

Prerequisite: English language screening or consent of instructor.

CCDL 103 N. Basic Skills in English as a Second Language II 4 Credits (3+2P)

Continuation of CCDL 101N for ESL students. Course intended for U.S. citizens and residents who are nonnative speakers of English. **Prerequisite:** English language screening or consent of instructor.

CCDL 105 N. Intermediate Skills in English as a Second Language I 4 Credits (3+2P)

Intermediate level with emphasis on reading and writing. Grammar and syntax stressed. Course intended for U.S. citizens and residents who are nonnative speakers of English.

Prerequisite: English language screening or consent of instructor.

CCDL 107 N. Intermediate Skills in English as a Second Language II 4 Credits (3+2P)

Continuation of CCDL 105N. Course intended for U.S. citizens and residents who are nonnative speakers of English.

Prerequisite: English language screening or consent of instructor.

CCDM-DEVELOPMENTAL MATHEMATICS (CCDM)

CCDM 100 N. Mathematics Preparation for College Success 1-4 Credits

Mathematics skills course designed for college students with math skills insufficient for success in CCDM 103N. May be repeated for a maximum of 4 credits. RR applicable.

CCDM 103 N. Pre-Algebra

4 Credits (3+2P)

Fundamental mathematics operations and arithmetic computations. Introduction to algebra and applied geometry. Provides laboratory and individualized instruction. RR applicable.

CCDM 105 N. Mathematics Preparation and Pre-Algebra 5 Credits (4+2P)

A total immersion course that combines CCDM 100N and CCDM 103N using tutorials, manipulatives, and classroom instruction. Completion of this class is equivalent to the completion of CCDM 100N and CCDM 103N. Restricted to: Community Colleges only.

CCDM 107 N. Pre-Algebra Fast-Track

1 Credit

An intensive review of fundamental mathematics operations and arithmetic computations. A review of introductory concepts of algebra and applied geometry. Students must meet eligibility requirements (Math Placement Exam). S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Math Placement Exam.

CCDM 108 N. Beginning Algebra Fast-Track 1 Credit

An intensive review of fundamental algebra topics including algebraic expressions, solving linear and quadratic equations, factoring, radicals, exponents. Students must meet eligibility requirements (math placement exam or completion of CCDM 107N). S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Math Placement Exam; or passing score in CCDM 105 N or CCDM 103 N, or CCDM 107 N.

CCDM 112 N. Developmental Algebra I 4 Credits (3+2P)

Fundamental algebra operations, algebraic expressions, solving linear equations, systems of equations and applications of linear equations. Introduction to exponents and polynomials. Provides laboratory instruction. Completion of CCDM 112N and CCDM 113N is equivalent to completion of CCDM 114N. Graded: Traditional with RR. Traditional Grading with RR. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of C or better in CCDM 103N or CCDM 105N or adequate placement score.

CCDM 113 N. Developmental Algebra II 4 Credits (3+2P)

Fundamental algebra operations, polynomials, factoring, solving quadratics by factoring, rational expressions, exponents and radical expressions (continuation of CCDM 112N). Provides laboratory instruction. Completion of CCDM 112N and CCDM 113N is equivalent to completion of CCDM 114N. Graded: Traditional with RR. Restricted to: Community Colleges only.

Prerequisite(s): Grade of C or better in CCDM 112N or consent of instructor.

CCDM 114 N. Algebra Skills

4 Credits (3+2P)

Fundamental algebra operations: algebraic expressions, solving linear and quadratic equations, factoring, radicals, exponents. Provides laboratory and individualized instruction. Completion of CCDM 114N meets basic skills requirement. Graded: Traditional with RR. Traditional Grading with RR. Restricted to Community Colleges campuses only. **Prerequisite(s):** C or better in CCDM 103N or CCDM 105N or adequate placement score.

CCDR-DEVELOPMENTAL READING (CCDR)

CCDR 101 N. Introduction to Basic Reading 4 Credits (3+2P)

Provides basic reading skills through comprehension and vocabulary development. Emphasis on oral language literacy and reading fluency. Course earns institutional credit but will not count toward degree requirements. May be repeated up to 4 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Appropriate placement score.

CCDR 103 N. Comprehensive Reading Development

4 Credits (3+2P)

Provides integration of basic reading skills, including vocabulary development, text comprehension, and critical reading skills. Course earns institutional credit but will not count towards degree requirements. May be repeated up to 4 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

Prerequisite(s): Appropriate placement score.

CCDR 105 N. Fundamentals of Academic Reading. 3 Credits (2+2P)

Fundamentals of academic reading skills. Emphasis on vocabulary development and text comprehension through literature based instruction. Course earns institutional credit but will not count towards degree requirements. Graded: Traditional with RR. May be repeated up to 3 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

Prerequisite(s): Appropriate placement score.

CCDR 110 N. Effective College Reading

3 Credits (2+2P)

Provides a variety of strategies for effective reading and studying at the college level. Emphasis on reading across disciplines. Course earns institutional credit but will not count towards degree requirements. Graded: Traditional with RR. May be repeated up to 3 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only. **Prerequisite(s):** Appropriate placement score.

CCDS-DEVELOPMENTAL SKILLS (CCDS)

CCDS 109 N. Study Skills for Reading

1-3 Credits

Individualized reading skill strategies necessary for success in college classroom. May be repeated for a maximum of 3 credits. Graded traditional or S/U.

CCDS 111 N. Study Skills for Math

1-3 Credits

Individualized study skill strategies necessary for success in the math classroom. May be repeated for a maximum of 3 credits. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

CCDS 113 N. Study Skills for English

1-3 Credits

Individualized study skill strategies necessary for success in the composition classroom. May be repeated for a maximum of 3 credits.

CHEF-CULINARY ARTS (CHEF)

CHEF 101. Culinary Arts Kitchen Orientation 3 Credits

Provides students with basic information and skills necessary for success in the Culinary Arts program. Students learn basic kitchen routines, safety and sanitation, professional conduct and deportment, standard kitchen calculations, knife handling, and are introduced to the laboratories for initial cooking experiences. Restricted to Community Colleges campuses only.

CHEF 125. Introductory Cake Decorating 1 Credit

Introduction to the professional cake decorating techniques used by pastry chefs. Basic skills of piping a variety of icings into different patterns are taught. Restricted to Community Colleges campuses only. **Prerequisite(s):** Consent of instructor.

CHEF 126. Intermediate Cake Decorating 1 Credit

Introduction to more advanced professional cake decorating techniques used by pastry chefs. Fondant work and more complex decorating schemes are taught. Restricted to Community Colleges campuses only. **Prerequisite(s):** CHEF 125.

CHEF 127. Chocolate Work

1 Credit

Introduction to working with chocolate utilizing a variety of methods. Tempering, forming, molding, and other professional techniques will be taught. Restricted to Community Colleges campuses only. **Prerequisite(s):** Consent of Instructor.

CHEF 128. Advanced Chocolate Work

1 Credit

More advanced treatments of chocolate are explored and professional techniques for the chocolatier are developed. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 127.

CHEF 129. Wedding Cake Design and Construction 1 Credit

Basic skills in designing wedding (or other specialty event) cakes. Includes shaping, icing selection, decorating scheme, presentation, transportation, and remote set up. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 125 and CHEF 126.

CHEF 155. Special Topics

1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CHEF 165. Math for Kitchen Operations

3 Credits

Fundamental mathematical concepts and computations, including measurement, recipe scaling and conversions, metric unit conversion, ingredient yield calculations, ratios and cost extensions are covered. Examples of basic mathematical calculations use kitchen and food service functions, as well as situations to demonstrate principles.

CHEF 211. Food Production Management I

3 Credits (2+2P)

Introduction to kitchen design, workflow, and commercial equipment. Techniques, methods, and application of basic food production principles. Practical experience in cooking processes from a managerial viewpoint. Crosslisted with: HOST 211. Restricted to Community Colleges only.

CHEF 212. Food Production Management II 3 Credits (2+2P)

Selection and use of ingredients. Demonstration and application of classical and modern cooking and preparation techniques. Management techniques for kitchen personnel. Recipe design and analysis. Crosslisted with: HOST 212. Restricted to Community Colleges only. **Prerequisite(s):** CHEF 211 or consent of instructor.

CHEF 213. Bakery Management I

3 Credits (2+2P)

Fundamentals of baking from a supervisory/management perspective. Exposure to commercial equipment and processes. Introduction to commercial alternatives to scratch-preparation methods. Crosslisted with: HOST 213. Restricted to Community Colleges only.

CHEF 214. Bakery Management II 3 Credits (2+2P)

Advanced techniques and management of bakery operations are explored. Students learn classical forms and techniques. Modern methods of preparing traditional pastry and baked goods are introduced. Crosslisted with: HOST218. Restricted to Community Colleges only. **Prerequisite(s):** CHEF 213 or consent of instructor.

CHEF 233. Culinary Arts Fundamentals I 4 Credits (1+9P)

Introduction to the basics of culinary arts, including ingredients recognition, cooking methods and techniques, knife usage, preparation of basic stocks, mother sauces, starches and vegetables. Students will participate in laboratory work designed to create an understanding of the professional role of the culinarian. Preparation and production of food products integral to service to guests is incorporated in the course. May be repeated up to 4 credits. Consent of Instructor required. Restricted to: CHEF, HOST, HSMG, HOCH majors. Restricted to Community Colleges campuses only.

CHEF 234. Culinary Arts Fundamentals II 4 Credits (1+9P)

Continuation of introductory course focusing on meat cookery, daughter sauces, cold food preparation, poultry and seafood. Safe use of equipment is emphasized while experiencing differing methods of preparation and cooking. Preparation and production of food products integral to service of guests is incorporated in this course. May be repeated up to 4 credits. Restricted to: HOST,HSMG,CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 233 with a grade of "C-" or better.

CHEF 235. Advanced Culinary Arts I 4 Credits (1+9P)

Exploration and experience in preparation techniques beyond the basic level. Nutritional components of food are discussed, as in the application of good nutrition practices in recipe design. Students are encouraged to use creative methods to expand the individual's culinary expressions. Prepares food products for service to guests in both bulk feeding and individual service settings. Plans, prepares, serves and critiques meals provided for students, faculty and staff. May be repeated up to 4 credits. **Prerequisite(s)/Corequisite(s):** CHEF 234 with a grade of "C" or better if course has been previously taken. Restricted to: CHEF majors. Restricted to Community Colleges campuses only.

CHEF 236. Advanced Culinary Arts II

4 Credits (1+9P)

Advanced techniques and experimental use of food combinations to enhance the student's repertoire of skills and abilities. Utilizes knowledge to develop recipes for unique products. Plans, prepares, serves and critiques meals provided for students, faculty and staff. Restricted to: CHEF majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** CHEF 235 with a grade of "C" or better.

CHEF 237. Banquet/Catering Production 3 Credits (1+6P)

Planning and implementation of the culinary aspects of catered functions. Development of time schedules, work assignments and service plans for catered events and banquet functions. Production of food items in appropriate quantities for catered events. Costing and control functions are covered. May be repeated up to 6 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of "C" or above in CHEF 233.

CHEF 240. Baking Fundamentals I 4 Credits (1+9P)

Introduction to baking techniques, measurment and use of ingredients; equipment use and chemical reactions inherent in the baking process. Production of simple desserts and baked goods. Itroduction to working with bread doughs. Restricted to: HOST,CHEF majors. Restricted to Community Colleges campuses only. **Corequisite(s):** CHEF 233.

CHEF 241. Baking Fundamentals II 4 Credits (1+9P)

More advanced baking and bread making techniques are covered in this course with emphasis on the more advanced elements of quantity production. Students work with a variety of products and ingredients. Restricted to: HOST, CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): grade of "C" or above in CHEF 240.

CHEF 242. Intermediate Baking I

4 Credits (1+9P)

More advanced baking and pastry techniques are covered in this course with emphasis on the basic elements of patisserie production. Focus is on preparing students to work in a pastry kitchen. Restricted to: HOST, CHEF majors. Restricted to Community Colleges campuses only. Prerequisite(s): Grade of "C" or above in CHEF 241.

CHEF 243. Intermediate Baking II

4 Credits (1+9P)

Continuation of work with basic elements of patisserie products including laminated doughs and filled products. Students prepare creams, custards, fillings and are introduced to cake assembly procedures. Restricted to: CULI majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of "C" or above in CHEF 242.

CHEF 245. Pastry Art and Techniques

4 Credits (1+9P)

Advanced skills for the pastry chef including pulled sugar work, spun sugar, chocolate art, pastillage, marzipan molding, butter carving and advanced decorating techniques are explored. Students prepare specialty items for display and competition. May be repeated up to 8 credits. Consent of Instructor required. Restricted to: CHEF,CULI majors. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 242 with a "C-" or above.

CHEF 255. Special Topics 3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to: CULI, HOST, HSMG majors. Restricted to Community Colleges campuses only.

CHEF 256. International Cuisine

3 Credits (1+6P)

Exploration into a variety of international cuisines is undertaken, including the cultural and historical backgrounds of the foods being prepared. Students work on developing themed menus and production plans for meals utilizing a single international cuisine. May be repeated up to 6 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of "C" or above in CHEF 233.

CHEF 257. Garde Manger 3 Credits (1+6P)

Traditional garde manger skills are taught, including plated salads, cold foods, entrements, pates, forcemeat, terrines, charcuterie and chaud froid work. The art and craft of food design, preparation and service are emphasized. May be repeated up to 3 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only. Prerequisite(s): Grade of "C" or above in CHEF 233.

CHEF 260. Nutrition for Chefs **3 Credits**

Aspects of basic human nutritional requirements are covered as are the applications of the standards to the cooking and baking. Meeting the USDA nutrient guidelines while preparing good tasting food is discussed, calorie, fat and sodium reduction techniques are explored.

CHEM-CHEMISTRY (CHEM)

CHEM 100. Basic Chemistry

3 Credits

For students whose preparatory science or math training has been deficient. Does not meet the chemistry requirement in any curriculum. Prerequisite: Enhanced ACT composite score of at least 18 or a grade of C or better in CCDM 114 N.

CHEM 101. General Supplemental Instruction I

1 Credit

Collaborative workshop for students in General Chemistry I. Course does not count toward departmental degree requirements. May be repeated for a maximum of 2 credits.

Corequisite: CHEM 111G.

CHEM 102. General Supplemental Instruction II 1 Credit

Collaborative workshop for students in General Chemistry II. Course does not count toward departmental degree requirements. May be repeated for a maximum of 2 credits.

Corequisite: CHEM 112G.

CHEM 103. Principles of Supplemental Instruction III 1 Credit

Collaborative workshop for students in CHEM 110G, Principles and Applications of Chemistry. Course does not count toward departmental degree requirements. May be repeated for maximum of 2 credits. Co-requisite: CHEM 110G.

CHEM 110G. Principles and Applications of Chemistry 4 Credits (3+3P)

A survey of the properties and uses of the elements and their compounds. In addition to classical chemistry, attention is paid to the materials from which consumer products are made, to the production of energy, and to environmental considerations.

Prerequisite: 3 years of high school math or CCDM 114N.

CHEM 111G. General Chemistry I 4 Credits (3+3P)

Descriptive and theoretical chemistry. CHEM 111G/112G are General Education alternative to CHEM 110G.

Prerequisite: (1) grade of C or better in MATH 120 or a Mathematics Placement Exam Score adequate to enroll in mathematics courses beyond MATH 120; and (2) one of the following: B or better in a second semester high school chemistry course, or grade of at least C in CHEM 100, or an enhanced ACT score of at least 22.

CHEM 112G. General Chemistry II

4 Credits (3+3P)

Descriptive and theoretical chemistry. CHEM 111G/112G are General Education alternative to CHEM 110G.

Prerequisite(s): CHEM 111G.

CHEM 115. Principles of Chemistry I

4 Credits (3+3P)

Detailed introduction to analytical, inorganic and physical aspects of chemistry; both descriptive and theoretical explanations. Structured for chemistry and biochemistry majors but appropriate for other physical and life science students. CHEM 115/116 are General Education alternatives to CHEM 110G.

Prerequisite: Eligible to take MATH 190G and an ACT composite score of 22 or higher.

CHEM 116. Principles of Chemistry II 4 Credits (3+3P)

Recommended for chemistry majors and other qualified students. CHEM 115/116 are General Education alternatives to CHEM 110G. **Prerequisites:** grade of C or better in CHEM 115.

CHEM 210. Chemistry for the Allied Health Sciences 3 Credits

Discussion and application of the established facts and concepts of general organic chemistry and biochemistry to acquire a molecular understanding of a variety of health related issues, from atmospheric ozone holes to human nutrition.

Prerequisite: CHEM 110G or CHEM 111G.

CHEM 211. Organic Chemistry

4 Credits (3+3P)

A one-semester survey for students requiring a brief coverage of important classes of organic compounds. May be repeated up to 4 credits.

Prerequisite(s): CHEM 112G.

CHEM 217. General Chemistry III

3 Credits (2+3P)

Quantitative aspects of general chemistry: solid state structure, equilibrium, thermodynamics, and kinetics. Required of chemical science majors who have taken CHEM 111G/112. **Prerequisite:** CHEM 112G.

CHEM 241. Introduction to Research

1-3 Credits (3+9P)

Techniques and procedures of chemical research. May be repeated for a maximum of 3 credits.

Prerequisites: 8 credits of chemistry and a 3.0 GPA in chemistry.

CHEM 242. Explorations in Chemistry

1 Credit

Historical and current developments, careers in chemistry, computer applications and use of the library by chemists. To be completed before the end of the sophomore year. Graded S/U.

CHEM 251. Special Topics in Chemistry

1-6 Credits (1-6)

Specific subjects in Chemistry. These subjects will be announced in the 'Schedule of Classes'. It may be repeated under different topics for a maximum of 12 credits.

CHIN-CHINESE (CHIN)

CHIN 111. Elementary Chinese I

4 Credits Mandarin Chinese for beginners.

CHIN 112. Elementary Chinese II

4 Credits Mandarin Chinese for beginners. Prerequisite: C or better in CHIN 111.

CHIN 211. Intermediate Chinese I 3 Credits

Speaking, reading and writing Mandarin Chinese. May be repeated up to 3 credits.

Prerequisite(s): C or better in CHIN 112.

CHIN 212. Intermediate Chinese II

3 Credits

Speaking, reading and writing Mandarin Chinese. May be repeated up to 3 credits.

Prerequisite(s): C or better in CHIN 211.

CHME-CHEMICAL & MATERIALS ENGR (CHME)

CHME 101. Introduction to Chemical Engineering Calculations 2 Credits

Introduction to the discipline of chemical engineering, including: an overview of the curriculum; career opportunities; units and conversions; process variables; basic data treatments; and computing techniques including computer programming and use of spreadsheets. **Prerequisite(s)/Corequisite(s):** MATH 190G.

CHME 102. Material Balances

2 Credits

Perform material balances in single- and multi-phase, reacting and nonreacting systems under isothermal conditions.

Prerequisite(s)/Corequisite(s): CHEM 111G or CHEM 115. Prerequisite(s): MATH 190G, CHME 101.

CHME 201. Energy Balances & Basic Thermodynamics

3 Credits Chemical Engineering energy balances; combined energy and material

balances including those with chemical reaction, purge and recycle; thermochemistry; application to unit operations. Introduction to the first and second laws of thermodynamics and their applications. May be repeated up to 3 credits.

Prerequisite(s): CHME 102, CHEM 115 or CHEM 111G, and MATH 192G.

CHME 294. Communicating in Chemical Engineering 2 Credits

Students will master the fundamentals of communicating as an engineer, with focus on both written and oral communication, both independently and collaboratively, including development of the skills of gathering information and making decisions.

Corequisite(s): ENGL 111G, COMM 265G.

CHSS - COMM HEALTH/SOC SRVCS (CHSS)

CHSS 101. Overview of Health and Community Services 3 Credits

Health and community service professions with emphasis on public health, community health education, and environmental/occupational health.

CHSS 216. Ethical and Research Issues in Human and Community Service

3 Credits

Ethical and legal responsibilities of health personnel with emphasis on research applications. May not receive credit for both CHSS 216 and CHSS 316. Community Colleges only.

CHSS 295. Leadership/Mentorship Training for the CHSS Ambassadors Program

1 Credit

Leadership development for volunteers serving as CHSS ambassadors. Focus on public relations and CHSS undergraduate degree programs. Graded S/U.

Prerequisite: consent of instructor.

CHSS 299. Service Learning Experience in Human and Community Services

1-4 Credits (1-4)

Exploration of contemporary social, civic, economic and ethical problems that require student participation in collaborative efforts within the community. Requires 30 clock hours of community based service for each credit: 3 credits for the Associate of Public Health only, 4 credits for the Associate of Public Health and Community Health Worker Certificate. Contact instructor for approval. May be repeated up to 4 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): PHLS 150G, CHSS 101, and PHLS 295. Prerequisite(s): PHLS 275. Restricted to Community Colleges campuses only.

CMI - CINEMA & FILM/VIDEO PROD (CMI)

CMI 100. Introduction to the Creative Media Industry 3 Credits

This class is an introductory course for students interested in learning about the creative media industry and the Creative Media Institute. It offers a broad view of the entire industry including Marketing, Production, Budgets, Jobs, New Media Literacy, and Industry Standards. Students will listen to experts in the field, and become involved in open discussions about the industry and use new information to complete hands-on assignments in the laboratory. Restricted to Las Cruces campus only.

CMI 200. Sound Design 1

3 Credits

Focuses on the techniques for creating, recording and manipulating sounds through challenging sound design projects. Crosslisted with: CMT 206

Prerequisite(s)/Corequisite(s): CMI 235. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

CMI 205. Cinematography I

3 Credits

Theories and techniques of visual design in videography and the aesthetics of lighting. Crosslisted with: CMT 205.

Prerequisite(s)/Corequisite(s): CMI 235. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

CMI 216. Editing I

3 Credits

Focuses on individual editing skills including capture, interface, basic cuts, and transitions. Crosslisted with: CMT 195.

Prerequisite(s)/Corequisite(s): CMI 235. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

CMI 220. Drawing for Animation **3 Credits**

Introductory study of the human and animal form in relation to animation. Students learn fundamentals and exaggeration of the figure, as related to proportion, rhythm, mechanics, and motion. Areas of focus are: basic form, proportion, shape, contour, gesture, anatomy, portraiture, perspective, clothing effects and drawing from observation. Restricted to: CMT,DFM,ANVE majors.

CMI 228. History of Cinema I **3 Credits**

This course surveys the history of cinema - investigating the process by which the original "cinema of attractions" evolved into a globally dominant form of visual storytelling. We will explore the development of cinema both as an art form and as an industry, and consider the technological, economic, cultural factors, as well as many key international movements that helped shape it. Restricted to: G-CMI, DFM, ANVE majors.

CMI 231. History of Animation 3 Credits

Explores the history of Animation as an art form and industry through readings, screenings, lecture and periodic guest speakers. Restricted to: G-CMI, ANVE, DFM majors. Restricted to Las Cruces campus only.

CMI 232. Storyboarding

3 Credits

Examines effective writing principles for creating storyboards that communicate the overall picture of a project. There are timing, scene complexity, emotion and resource requirements. Crosslisted with: ENGL 232. Restricted to: DFM,ANVE, G-CMI majors. Restricted to Las Cruces campus only.

CMI 233. Light, Shade, Render **3 Credits**

This course will explore the theory and practice of 3D lighting and rendering methodologies. Techniques covered will implement cameras, lighting sources, textures, surface-mapping and algorithmic rendering to produce stylized and photo realistic images. Topics covered will include direct and indirect lighting, shaders that simulate physical substances and effects, rendering multiple passes and simulating physical lens effects. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

Prerequisite(s): CMI 260, CMI 280, or Consent of Instructor.

CMI 235. Narrative: Principles of Story Across the Media 3 Credits

Examines the various strategies of written and visual storytelling: narrative structure and its principle components (plot, theme, character, imagery, symbolism, point of view), with an attempt to connect them to elements of contemporary forms of media expression, including screenwriting, playwriting, writing for documentaries and animation, etc. Crosslisted with: ENGL 235. Restricted to: G-CMI, DFM, ANVE majors. Restricted to Las Cruces campus only.

CMI 240. Digital Illustration

3 Credits

Introductory course examining traditional artistic expressions and translating visual art experiences into a digital art medium to enhance visual storytelling. Students acquire basic principles of drawing and painting through hands-on experience manipulating tonal value, composition, form development, light and shadow, color theory, rendering realism, and graphic design. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

CMI 245. 2-D Compositing & FX

3 Credits

The purpose of this course is to familiarize students with the powerful compositing and special effects tools of Adobe After Effects for 2D, traditional animation. Students will learn how to assemble an existing unrendered animation into a final piece with advanced 3D lighting, spacing, and digital effects so that it can achieve a dynamic, professionally rendered look. Restricted to Las Cruces campus only.

CMI 250. Beginning 2-D Animation 3 Credits

Learn the basics of digital 2D animation by creating an animated short from a storyboarded scene using professional animation, imaging, and editing software. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

CMI 260. Foundations of 3D Animation 3 Credits

The objective of this course is to provide a hands-on overview of the 3D animation production process. 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. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

Prerequisite(s): CMI 235, CMI 232 or consent of instructor.

CMI 270. Rigging for 3D Animation

3 Credits

This course will introduce principles and practices of current 3D animation rigging. Students will develop fundamental methods necessary to create character rigs. Students will learn aesthetic, technical, and optimization concepts as they apply to organic and mechanical designs. Topics will include: hierarchies, constraints, deformation rigging, skeleton creation, skinning, forward and inverse kinematics, controls, body and facial rigging. Restricted to: DFM,ANVE majors.

Prerequisite(s): CMI 260.

CMI 280. Modeling

3 Credits

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. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

CMI 290. 3-D Animation

3 Credits

Overview of the essentials and principles of 3D animation; creative methods for using industry standard tools to produce the illusion of movement for storytelling. Topics include, keyframe and curve animation, kinematics, cycle animation, camera animation, deformers, and constraints.

Prerequisite(s): CMI 260, CMI 250 or consent of instructor.

CMT-CREATIVE MEDIA TECHNOLOGY (CMT)

CMT 100. Introduction to Visual Communications 3 Credits

Overview of the process of crafting a digital product from conception to final. Incorporates basic principles of art and design, typography, layout, color and imagery, logos and advertising basics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

CMT 108. Introduction to Media Technologies

1-3 Credits (1-3)

Introduction to various media technologies. May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

CMT 110. Introduction to Web Design 1 Credit

Basics of creating simple web sites for personal use.

CMT 115. Digital Photography and Imaging I

3 Credits (2+2P)

Principles and techniques of photography using digital equipment with an emphasis on lighting, focus, and composition.

CMT 120. Introduction to Creative Media

3 Credits (2+2P)

Exploration and discovery of the creative processes through art, music, theater, narrative, and other avenues.

CMT 126. Film Crew Training I

9 Credits

This course was designed in collaboration with the NM IATSE Local 480 union and the NM Film Office and focuses on providing hands-on training for students wishing to work on film crews. The course will offer an overview of the primary below-the-line craft areas of film production. Restricted to: Community Colleges only.

CMT 130. Introduction to Web Design

3 Credits (2+2P)

Introduction to web development techniques, theory, and design. Incorporates HTML and industry-standard web editing software in developing various web sites. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ART 161 OR CMT 145.

CMT 135. Introduction to 3D Computer Animation 3 Credits (2+4P)

Learning to work in a 3D environment. Introduction to the basics of modeling, animation, dynamics, and rendering. Working with polygons, NURBS and subdivisions, and editing in multiple interfaces. May be repeated for a maximum of 6 credits.

CMT 140. Print Media I

3 Credits (2+2P)

Creation and design of publications and presentation materials using page layout software. May be repeated for a maximum of 6 credits.

CMT 142. Computer Illustration 3 Credits (2+2P)

Preparation of digital graphics with a vector or draw program for use in print, web, video, animations, and multimedia. May be repeated for a maximum of 6 credits.

CMT 145. Image Processing I 3 Credits (2+2P)

Design and creation of digital graphics using a raster or bitmap program for use in print, multimedia, video , animation and web. May be repeated for a maximum of 6 credits.

CMT 150. 2D Animation

3 Credits (2+2P)

Concepts and techniques in storyboarding and creating interactive 2D animations for web, multimedia and video. **Prerequisites:** CMT 142.

CMT 151. Evolution of Electronic Games

3 Credits (2+2P)

Focus on the evolution of video games and how they have shaped mainstream entertainment. May be repeated up to 6 credits.

CMT 155. Selected Topics

1-4 Credits (1-4)

Specific titles to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits. May be repeated up to 18 credits. Restricted to Community Colleges campuses only.

CMT 156. Film Crew Training II 9 Credits

The purpose of this course is to provide applied training in a specific film production crew craft area, in which a student has decided to specialize. The various craft areas include but are not limited to, Art Dept., Grip., Electric, Sound, Production Office, Script Supervision, Props, Set Dressing, Locations, Special Effects, Hair/Makeup, Wardrobe, Production Assistant/ Set Operations. Restricted to: Community Colleges only. **Prerequisite(s):** CMT 126.

CMT 160. Modeling and Animation

3 Credits (2+2P)

Building on student's knowledge of 2D animation, covers modeling, animating objects and scenes in a 3D environment using various camera and lighting effects. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

CMT 165. Writing and Storyboarding 3 Credits (2+2P)

Learning good writing principles to create storyboards and scripts that communicate the overall picture of the project, timing, scene complexity, emotion, and resource requirements.

Prerequisite: CMT 135 or CMT 160.

CMT 170. History of Film: A Global Perspective 3 Credits

Explores the history of cinema from the earliest 19th century developments to the present digital video revolution. Offers students a broader base of understanding of the tools and methodologies used in the craft.

CMT 175. 3-D Character Design

3 Credits (2+4P)

Focus on designing a character and then taking that design and building it in 3D using intermediate modeling techniques. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 135 or CMT 160.

CMT 180. Design Principles 3 Credits (2+2P)

Techniques and theories of design principles, including layout foundations, logo building, type, color, and story-boarding and their application to print, web, animation and video. Restricted to: Community Colleges only.

Prerequisite(s): CMT 142 or CMT 146.

CMT 182. Environmental Modeling, Shading and Lighting 3 Credits (2+4P)

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. **Prerequisite:** CMT 135 or CMT 160.

CMT 185. 3D Shading and Lighting Techniques

3 Credits (2+4P)

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.

Prerequisite: CMT 135 or CMT 160.

CMT 190. Digital Video Production I

3 Credits (2+4P)

A hands-on study of the tools and techniques used to produce the independent video. Through the production of various short projects, the student explores how the ideas of the writer/director are translated into a visual story. May be repeated for a maximum of 6 credits.

CMT 195. Digital Video Editing I

3 Credits (2+2P)

A study of the basic tools and techniques of non-linear digital video editing. May be repeated for a maximum of 6 credits.

CMT 200. Critical Game Studies

3 Credits (2+2P)

Focus on creating a complete design document utilizing techniques and standards used in the industry today. May be repeated for up to 6 credits. Restricted to: Community Colleges only.

CMT 205. Cinematography

3 Credits (2+2P)

Theory and techniques of visual design in cinematography and the aesthetics of lighting. May be repeated for a maximum of 6 credits. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 190.

CMT 206. Principles of Sound

3 Credits (2+2P)

Study of soundtrack design theory, and the use of audio editing software that is compatible with media editing software to create soundtracks for different visual media. Pre/ Restricted to: Community Colleges only. **Corequisite(s):** CMT 195.

CMT 210. Digital Video Production II

3 Credits (2+2P)

Advanced techniques of the tools and application of professional film making. May be repeated for a maximum of 6 credits. **Prerequisite:** CMT 190.

CMT 215. Digital Video Editing II

3 Credits (2+2P)

Advanced features of digital video, audio/music, and titling production software. Included are color correction, vector scopes, motion effects, and advanced editing techniques used by filmmakers. May be repeated up to 6 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** CMT 195.

CMT 216. Digital Photography and Imaging II 3 Credits (2+2P)

Provide understanding and skills needed for advanced digital capture, editing, optimizing and manipulating photographic images for print, web and multimedia applications. The course will prepare students to make more advanced technical and more refined aesthetic decisions relative to specific photographic applications. Restricted to: Alamogordo campus, Carlsbad campus, Dona Ana campus.

Prerequisite(s): CMT 115.

CMT 220. Environmental Scene Design

3 Credits (2+4P)

Modeling design techniques used to create environments and scenes for use in animated films and games. Investigation of both natural and architectural environments to be recreated in the virtual world. **Prerequisite:** CMT 135 or CMT 160.

CMT 221. Internship

1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 9 credits. Consent of Instructor required. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

CMT 222. Pre-production Management

3 Credits (2+2P)

Pre-production planning paperwork breakdowns, budgeting, and scheduling; taking a project from start to finish from a producers standpoint.

Prerequisite: CMT 190.

CMT 223. Media Production Services

1-3 Credits

A design studio environment in which students obtain real-world experience while providing service to college and non-profit associations with faculty supervision using a variety of media. Can be used with permission to fulfill cooperative requirement. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 180 or ART 163.

CMT 225. Anatomical Character Design

3 Credits (2+4P)

Focus on building anatomy-based 3D characters. Advanced study in NURBS, subdivisions, and polygon modeling techniques used to create fully functional and realist models. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 175.

CMT 226. Film Crew Cooperative Experience

3-6 Credits (3-6)

Industry production experience in specific craft areas for film crew technicians who have successfully completed two semesters of FTTP. Restricted to: Dona Ana campus, Carlsbad campus. **Prerequisite(s):** CMT 156.

CMT 227. Advanced Character Animation 3 Credits (2+2P)

Focus on complex rigging techniques as well as utilizing advanced animation functions to blend multiple animations into complex animations. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): CMT 160.

CMT 228. Level Design Concepts 3 Credits (2+2P)

Focus on the design and creation of video game levels. Dealing with the challenges and pitfalls of different video game genres. May be repeated for a maximum of 6 credits. Prerequisite: CMT 200

CMT 229. 3D Digital Sculpting

3 Credits

Introduce students to the 3D Sculpting programs which are the industry standard sculpting programs. Students will learn how to create complex high polygon sculpts and normal maps and transfer the models into 3D studio Max and Autodesk Maya. May be repeated up to 6 credits. Restricted to: Community Colleges only. **Prerequisite(s):** CMT 160.

CMT 230. Web Design II

3 Credits (2+2P)

Creating and managing well-designed, organized web sites using HTML and web development software. May be repeated for a maximum of 6 credits. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 130.

CMT 235. Web Design for Small Businesses 3 Credits (2+2P)

Technology and techniques for designing and building a web presence for small business. May be repeated for a maximum of 6 credits. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 130.

CMT 236. Digital Audio Fundamentals

3 Credits (2+2P)

Advanced digital audio post production and recording techniques using current entertainment industry-standard software and hardware. Restricted to: Community Colleges only.

CMT 240. Print Media II

3 Credits (2+2P)

Refining of technical design skills using advanced features of page layout software in preparing a variety of business-related documents. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 140.

CMT 242. Advanced Computer Illustration

3 Credits (2+2P)

Advanced techniques in 2D vector drawing and fundamentals of 3D illustration for use in print, web, and multimedia applications. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 142.

CMT 245. Image Processing II 3 Credits (2+2P)

Advanced techniques in editing and manipulation of raster images for digital graphics for print, multimedia and web. May be repeated up to 6 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** CMT 145.

CMT 247. Production Audio

3 Credits (2+2P)

Essential tools and techniques in: field and studio recording and mixing, environmental assessment, film set protocol, various microphones, audio documentation, wildlines, ambient audio. Restricted to: Community Colleges only.

Prerequisite(s): CMT 190 and CMT 236.

CMT 248. Music Production and Mastering 3 Credits (2+2P)

Introduction to fundamental tools and techniques in music production and mastering. Including: microphones and microphone techniques, live and studio recording, editing, mixing, and introduction to mastering digital audio. Restricted to: Community Colleges only.

Prerequisite(s): CMT 206 and CMT 236.

CMT 251. Gaming Platform and Standards 3 Credits (2+2P)

Focus on the different gaming platforms and their corresponding gaming demographics and standards. May be repeated up to 6 credits. Restricted to: CMT majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** CMT 200.

CMT 252. Game Tools and Techniques 3 Credits (2+2P)

Focus on the different engines and gaming technologies that power the games of today. May be repeated for a maximum of 6 credits. **Prerequisite:** CMT 200.

CMT 253. History of Animation

3 Credits

Exploration of animation as art form and industry. Material spans from the roots of animation before film technology to modern commercial and artistic animated productions. Restricted to Community Colleges campuses only.

CMT 254. History of Media Design

3 Credits

An introduction to the principles of design history and theory within a chronological framework of historical and emerging media.

CMT 255. Special Topics

1-4 Credits

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits.

CMT 256. Typography

3 Credits

Foundation in typography with an emphasis on history of typography and the practical application and impact of font choices for print, web, animation and video. Deals with studies in font or letter construction and font choices focusing on design, application, incorporation, and visual impact. Restricted to: Community Colleges only.

Prerequisite(s): CMT 142.

CMT 258. Advanced Camera Techniques 3 Credits (2+2P)

Professional camera techniques and training for electronic news gathering and studio filmmaking. Utilizes high-end handheld shooting techniques, cranes, dollies, and steadicam training. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 190.

CMT 260. 3D Special Effects 3 Credits (2+4P)

Creating advanced virtual special effects for both rigid and soft bodies. Using MEL, dynamic principles, mixing nodes, and advanced particle systems. How to drive particles over surfaces, add texture to flow, create surface tensions, and use collision events to drive texture. Study of integrating computer-generated images with real-life video and audio. **Prerequisite:** CMT 160 or CMT 225.

CMT 265. Personal Character Development 3 Credits (2+4P)

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. **Prerequisite:** CMT 225.

CMT 275. Advanced Web Techniques

3 Credits (2+2P)

Creating and managing complex web sites using advanced techniques and tools. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisites: CMT 145 and CMT 230.

CMT 276. Advanced Photography Workshops 1 Credit

This is a series of 1-credit workshops offering specialized and intense advanced skill training and upgrading applications of photography for commercial purposes and training in photographic skills and styles presented by a variety of professional lecturers. May be repeated up to 7 credits. Restricted to Community Colleges only.

Prerequisite(s): CMT 115.

CMT 285. Print Media III

3 Credits (2+2P)

Refinement of skills needed to prepare a variety of documents for print and the service bureau. May be repeated for a maximum of 6 credits. **Prerequisite:** CMT 140 or CMT 240.

CMT 290. Advanced 3d Animation Workshop A 3 Credits (2+4P)

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits. **Prerequisite:** consent of instructor.

Corequisite: CMT 291.

CMT 291. Advanced 3d Animation Workshop B 3 Credits (2+4P)

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits.

Prerequisite: consent of instructor. **Corequisite:** CMT 290.

CMT 292. Creative Media Studio

3 Credits (2+2P)

A studio environment where students specialize in creating film-festival quality and portfolio-ready projects under the supervision of faculty. May be repeated for a maximum of 6 credits.

Prerequisites: CMT 190 and CMT 195 or CMT 160.

CMT 295. Professional Portfolio Design and Development 1-3 Credits

Personalized design and creation of the student's professional portfolio including hard-copy, demo reel, and online. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

CMT 298. Independent Study

1-3 Credits

Individual studies directed by consenting faculty with prior approval of department head. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Minimum GPA of 3.0 and sophomore standing.

COLL-COLLEGE (COLL)

COLL 101. College/Life Success

1-3 Credits

Provides students with an opportunity to cultivate the skills, values, and attitudes necessary to become confident, capable students, and contributing community members. Topics include time management, memory techniques, relationships, health issues, money management, and college and community resources.

COLL 103. Managing Your Money

1 Credit

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.

COLL 108. Academic Reading and Study Skills 1-4 Credits

Introduction to and practice with strategies for effective reading and studying at the college level. Provides laboratory.

COLL 111. Academic Skills for Mathematics

1-3 Credits (1-3)

Emphasis on study skills for success in math, up to the calculus level, tailored to meet individual student needs. Topics include test preparation strategies, efficient time management and practice methods, and introduction to and practice with learning software. Consent of instructor required.

COLL 120. Career Exploration

1 Credit

Survey of careers possible with community college associate degrees. Information on how to make a career choice.

COLL 155. Special Topics

1-4 Credits

Covers specific study skills and critical thinking topics. Specific sub-titles to be listed in the Schedule of Classes. May be repeated for a maximum of 8 credits.

COLL 185. Prior Learning: Professional Portfolio 1-6 Credits

Creating a portfolio that outlines professional and educational experiences. Life skills and education learned through workplace training and non-traditional education experiences will be evaluated for consideration of awarding college credit. Students will draft a life history paper, prepare a professional resume, assemble supporting documentation and evidence in support of their petition to receive college credit for prior learning. Culminating activities will include an oral presentation of the portfolio contents. Graded S/U. **Prerequisite:** CCDE 110N or equivalent.

COLL 201. Critical Thinking Skills

3 Credits

Introduction to critical thinking processes. Develops higher order thinking necessary to evaluate clearly, logically, and accurately one s academic and life experiences. Practical emphases on assertive thinking and perspectives.

Prerequisite: placement scores for CCDE 110 N or higher.

COMM-COMMUNICATION (COMM)

COMM 250. Introduction to the Communication Major 1 Credit

This is a one-credit course for new Communication Studies majors. It helps them get acquainted with the department, the department head (professor for this course, the professors, other students, and the department student organizations. It also deals with degree mapping and career mapping and any problems the students are having in their first year. Finally, the students learn about the the Communication Studies discipline and various communication careers they can pursue with their degree. The class meets one day each week for one hour. Restricted to: Communication Studies majors. Restricted to Las Cruces campus only.

COMM 253G. Public Speaking

3 Credits

Principles of effective public speaking, with emphasis on preparing and delivering well-organized, logical, and persuasive arguments adapted to different audiences.

COMM 265G. Principles of Human Communication

3 Credits

Study and practice of interpersonal, small group, and presentational skills essential to effective social, business, and professional interaction.

COMM 285. Survey of Communication Theory 3 Credits

Exploration of major theories, concepts and methods of research in the study of human communication. Primarily for majors.

COMM 290. Independent Study

1-3 Credits

Individualized, self-paced projects for students with a special interest in communication topics. May be repeated for a maximum of 6 credits. **Prerequisites:** COMM 265G and sophomore standing.

COMM 291. Special Topics

1-3 Credits

Specific subjects and credits to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

CSEC - CYBERSECURITY (CSEC)

CSEC 275. Introductory to Cryptography

3 Credits

Introduction to the foundation of cryptography, principles behind cryptographic design, and cryptographic applications. Topics include encryption techniques, common cryptographic protocols and security functions. Restricted to Community Colleges campuses only. **Prerequisite(s):** MATH 120.

CSEC 280. Introduction to Cyber Defense 3 Credits

Introduction to computer network attacks and countermeasures used to reduce threat exposure to individuals and organizations. This course will examine common types of cyber threats and current industry standard techniques to defend against common cyber-attacks.

Prerequisite(s)/Corequisite(s): OECS 269. Restricted to Community Colleges campuses only.

CSEC 285. Introduction to Managing Information Security 3 Credits

Managerial aspects of information security and assurance including access control models, information security governance, accountability metrics, legal responsibilities, and information security program assessment.

Prerequisite(s)/Corequisite(s): A ST 251G or STAT 251G. Restricted to Community Colleges campuses only.

CTEC - CYBER TECHNOLOGY

CTEC 105. Introduction to Information Technology 3 Credits

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communication, data analysis, information management, and decisionmaking. Restricted to Community Colleges campuses only.

CTEC 110. Software Applications for Technicians

1-3 Credits (1-3)

Introduction to software applications for communication, information management, and data analysis. Students will utilize presentation, word processing, spreadsheet, database, and utility software to simulate real-world activities experienced by help desk technicians. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 115. TOPICS IN IT

1-3 Credits (1-3)

Topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 120. IT Infrastructure Support I

1-3 Credits (1-3)

Introduction to most common types of PC configurations, installations, and failures. This course will explore troubleshooting skills for maintaining and repairing common hardware and software related problems. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

CTEC 122. IT Infrastructure Support II 1-3 Credits (1-3)

Continuation of CTEC 120. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** CTEC 120 or OECS 185.

CTEC 127. Introduction to Internet of Things 1-3 Credits (1-3)

Exploration of the importance of IoT in society, components of typical IoT devices and future trends. IoT design considerations, constraints, interfacing and key components of networking will also be covered. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 130. Linux Workstation

1-3 Credits (1-3)

Installation, configuration, and maintenance of the Linux operating system. Covers file organization, user management, and system security. Addresses general procedures for working with and modifying the operating system. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 135. Windows Workstation

1-3 Credits (1-3)

Installation, configuration, and maintenance of the Windows operating system. Covers file organization, user management, and system security. Addresses general procedures for working with and modifying the operating system. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 140. Introduction to Database Design

1-3 Credits (1-3)

Introduction to basic relational database concepts including terminology, tables, queries, forms, and reports. The course teaches data modeling concepts, building Entity Relationship Diagrams (ERDs), mapping ERDs, and use of data management system applications. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 145. Introduction to Database Management 1-3 Credits (1-3)

Use of SQL to analyze complex business scenarios as well as to design and create, and manage databases. Course includes exposure to Application Express (APEX) to provide practical, hands-on activities. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CTEC 140 or OECS 220.

CTEC 150. Mobile Application Programming

1-3 Credits (1-3)

Introduction to elements of mobile application coding including concepts, design strategies, and tools needed to create, test, and deploy applications for mobile devices. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 152. JAVA Programming

1-3 Credits (1-3)

Introduction to concepts of programming in the Java language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 154. C++ Programming 1-3 Credits (1-3)

Introduction to concepts of programming in the C++ language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 156. Python Programming

1-3 Credits (1-3)

Introduction to concepts of programming in the Python language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 158. Visual Basic Programming

1-3 Credits (1-3)

Introduction to concepts of programming in the Visual Basic language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 180. Introduction to Networking 3-4 Credits (3-4)

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. May be repeated up to 8 credits. Restricted to Community Colleges campuses only.

CTEC 185. Introduction to Routing and Switching 3-4 Credits (3-4)

Examination of the architecture, components, and operations of routers and switches in a small network. Student will learn how to configure, verify, and troubleshoot: routers and switches, static routing, default routing, VLANs, and ACLs. Aligns to the second course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 8 credits. **Prerequisite(s)/Corequisite(s):** CTEC 180 or OECS 261. Restricted to Community Colleges campuses only.

CTEC 220. Internship

1-3 Credits (1-3)

Work experience, directly related to a student's field of study, that provides an opportunity to explore career options while experiencing hands-on application, knowledge, and theory learned in the classroom. May be repeated up to 6 credits. Consent of Instructor required. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

CTEC 230. Introduction to Linux Server Administration 1-3 Credits (1-3)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Linux Server(s). It provides in-depth, hands-on training for IT professionals responsible for the planning, implementation, management, and support of Linux Server operating system(s). May be repeated up to 6 credits.

Prerequisite(s)/Corequisite(s): CTEC 130 or OECS 204. Restricted to Community Colleges campuses only.

CTEC 235. Introduction to Windows Server Administration 1-3 Credits (1-3)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Window Server(s). It provides in-depth, hands-on training for IT professionals responsible for the planning, implementation, management, and support of Windows Server operating system(s). May be repeated up to 6 credits. **Prerequisite(s)/Corequisite(s):** CTEC 135 or OECS 237. Restricted to Community Colleges campuses only.

CTEC 240. Fundamentals of Database Management 1-3 Credits (1-3)

Exploration of database management using SQL and PL/SQL to extend and automate SQL in administering database systems. Students will create and work with projects which challenge them to enhance the SQL of a database solution for a business or organization. May be repeated up to 6 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** CTEC 140.

CTEC 245. Fundamentals of Cloud Based Data Systems 1-3 Credits (1-3)

Introduction to the techniques and tools required to develop database driven web applications. The course teaches students how to design, develop, and deploy efficient and responsive, database-driven web applications using Oracle Application Express. May be repeated up to 6 credits.

Prerequisite(s)/Corequisite(s): CTEC 240. Restricted to Community Colleges campuses only.

CTEC 255. Special Topics

1-3 Credits (1-3)

Topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 280. Fundamentals of Wide Area Networks 3-4 Credits (3-4)

Fundamentals of networking architecture, components, and operations including practical and conceptual skills using routers and switches. Student will learn how to configure, verify, and troubleshoot static routing, default routing, VLANs, and ACLs. This course aligns to the third course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): CTEC 185 or OECS 262. Restricted to Community Colleges campuses only.

CTEC 285. Fundamentals of Network Routing Protocols 3-4 Credits (3-4)

Fundamentals of routing protocols for troubleshooting advanced network operations. Covers common networking issues such as RIP, OSPF, and EIGRP for IPv4 and IPv6 networks. This course aligns to the fourth course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): CTEC 280 or OECS 263. Restricted to Community Colleges campuses only.

CTEC 290. Network Security

3-4 Credits (3-4)

Fundamentals of design and implementation of network security solutions that will reduce the risk of system vulnerability. Topics include: threats, attacks, vulnerabilities, tools, architecture, design, access management, risk management, and cryptography. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): CTEC 120 and CTEC 180, or consent of instructor. Restricted to Community Colleges campuses only.

CTEC 299. Independent Study

1-4 Credits (1-4)

Specific subject to be determined based upon student need. May be repeated up to 8 credits. Restricted to Community Colleges campuses only.

CTFM-CLTHNG/TXTLS/FSHN MRCHDSG (CTFM)

CTFM 178. Fundamentals of Fashion 3 Credits

Survey of the fashion business from fiber to end product.

CTFM 202. Fashion Practicum

1-3 Credits (1-3)

Applied field experience in the related areas of apparel design, fashion merchandising, and textile science. May be repeated up to 3 credits. Restricted to: CTFM majors. Restricted to Las Cruces campus only.

CTFM 270. Computer Applied Fashion Illustration 3 Credits (1+4P)

This course explores aspects of fashion illustration, from drawing basic fashion figures to producing finished professional illustrations in color. This course provides the opportunity for students to integrate their fashion design development with computer-aided systems. The emphasis is on fashion innovation and concept design exploration enhanced by computer applications. May be repeated up to 3 credits. **Prerequisite(s):** CTFM 178, ART 110G.

CTFM 273. Basics of Apparel Construction

3 Credits (1+4P)

Students are introduced to professional standard sewing techniques and apparel construction. The techniques learned are applied to produce finished garments. Restricted to: FCSE,CTFM majors. Restricted to Las Cruces campus only.

CTFM 289. Fashion Studio I

3 Credits

Applied principles in the criteria of pattern making: flat pattern and draping techniques. Projects will require three dimensional approaches in apparel design. Restricted to: CTFM majors. Restricted to Las Cruces campus only.

DANC-DANCE (DANC)

DANC 101G. Dance Appreciation

3 Credits

An investigation of movement, dance and choreographic work as a vehicle for understanding culture. Includes concepts in dance appreciation, themes and purposes of dance analysis of dance works, exposure to different styles of dance and understanding the roles and effects of major historical periods. Restricted to: Main campus only.

DANC 102. Introduction to Hip-Hop Dance

1 Credit

This course is an introduction to Hip-Hop dance. The movement material will cover West coast and Southern styles with the inclusion of the history and evolution of Hip-Hop dance. No previous dance experience required. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

DANC 109. Introduction to Argentine Tango

2 Credits

Introduction to skills and techniques of Argentine Tango. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 118. Intro to West Coast Sw 1 Credit

Students will learn to dance the smooth style of Swing. The West Coast Swing may be danced to ANY style of music that has a beat (Country, R&B, Hip Hop, Disco, House). Also featured is the Hustle (fast paced and exhilarating). May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 121. Beginning Country Western Dance 1 Credit

Beginning County Western dance, including Country Western two-step, nightclub two-step, polka, and Country Western line dance. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 122. Introduction to Latin Social Dance 1 Credit

Introduction to Latin social dance for non dance majors. Students will learn basic Latin dance technique and partnering work. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 123. Ballet Technique I

1 Credit

Introduction to basic ballet technique, vocabulary, and history. Includes practical application of anatomical placement, posture and control through participation and academic study. May be repeated for a maximum of 2 credits.

DANC 124. Jazz Technique I

1 Credit

Introduction to basic jazz technique, styles, and history through participation and academic study. May be repeated for a maximum of 2 credits.

DANC 125. Introduction to Ballroom Dance 1 Credit

Introduction to ballroom dance for non dance majors. Students will learn basic ballroom technique and partnering work. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 126. Modern Dance Technique I

1 Credit

Introduction to and development of basic modern dance technique, history, and aesthetics through participation and academic study. May be repeated for a maximum of 2 credits.

DANC 127. Introduction to Tap Dance 1 Credit

Introduction to skills and techniques of tap dance. May be repeated for a maximum of 2 credits. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 128. Latin Club Dance

1 Credit

Introduction to the most popular Latin Club Dances to include the Salsa, Merengue, and Bachata. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 129. Flamenco I

1 Credit

Introduction to skills and techniques of flamenco dance. May be repeated for a maximum of 2 credits.

DANC 145. DanceSport Pedagogy

1 Credit

DANC 151. Master Works

1 Credit

This course investigates the work of master choreographers in contemporary, Spanish, and social dance styles. Students will engage in exploring concepts in dance appreciation, themes and purposes of dance by analyzing dance works using principles, elements, and process of compositional design. This course will require students to communicate their opinions through verbal discussions, group projects, and written assignments. Restricted to Las Cruces campus only.

DANC 200. Dance Pedagogy: How We Learn 1 Credit

This course will examine how people learn cognitively, physically, and emotionally so that students can become better at self-teaching and selfassessment. Students will study several educational theories and how they relate to dance. May be repeated up to 1 credits. Restricted to Las Cruces campus only.

DANC 202. Dance Ensemble

1 Credit

This course will include learning the elements of dance composition. The students in this course will be the dancers for the students in Dance Choreography II. This course is a requirement for freshman dance majors whose emphasis is in contemporary dance. Restricted to Las Cruces campus only.

DANC 203. Dance Production I

2 Credits

Students will learn the production process of dance events which may include performances, festivals, workshops, conferences. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 204. Dance Sport I

1 Credit

Performance-based, team formation dance in a variety of Latin and ballroom dances. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 205. Contemporary Dance Ensemble I

1 Credit

Performance-based instruction for students pursuing a career in contemporary dance. Instruction includes contemporary dance repertory and choreography for stage, outdoor arenas, and site-specific areas. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 206. Spanish Dance Ensembles I 1 Credit

Performance-based instruction for students pursuing a career in dance with an emphasis in Spanish Dance. Instruction includes dance repertory and choreography for stage, outdoor arenas, and site-specific areas. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 207. Hip Hop Dance Ensemble I

1 Credit

Performance-based instruction for students pursuing a career in hip hop dance. Instruction includes dance repertory and choreography for stage, commercial/industry, and competitive dance areas. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 210. Classical Spanish II 2 Credits (1+3P)

The study of theory, techniques, and practice of Classical Spanish at the intermediate level. Includes historical and cultural contexts of this art form. May be repeated up to 8 credits. Consent of Instructor required. Restricted to Las Cruces campus only. **Prerequisite(s):** DANC 129.

Freequisite(s). DANG 125.

DANC 210 L. Spanish Dance II Lab

1 Credit

This course is designed for the acquisition of intermediate level Spanish dance technique and skill development. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 212. Intermediate Hip-Hop Dance 2 Credits

This course is for students who have experience in Hip-Hop dance. The movement material will cover West coast and Southern styles with the inclusion of the history and evolution of Hip-Hop dance. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

DANC 218. West Coast Swing II 2 Credits

Students will take their West Coast Swing & Hustle to the next level. Learn Intermediate and Advanced figures and techniques in both dances. Students will also enjoy advanced study on musicality and blending to create new amalgamations as well as practice in advanced leading & following techniques. May be repeated up to 8 credits. Consent of Instructor required. Restricted to Las Cruces campus only. **Prerequisite(s):** DANC 118.

DANC 222. Bronze American Rhythm

2 Credits (1+2P)

Bronze level American Rhythm patterns, techniques, and partnering with emphasis on elements of dance. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

DANC 223. Ballet Technique II

2 Credits

Continued study of classical ballet technique, vocabulary, and history through participation and academic study. Restricted to Las Cruces campus only.

DANC 223 L. Ballet Technique II Lab

1 Credit

This course is designed for the acquisition of intermediate level ballet technique and skill development. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 224. Jazz Technique II

2 Credits

Continued study of jazz technique and history through participation and academic study. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

DANC 225. Bronze American Smooth

2 Credits (1+2P)

Bronze level American Smooth patterns, technique, and partnering with an emphasis on the elements of dance. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

DANC 226. Modern Dance Technique II 2 Credits

Continued study of postmodern dance technique and history through participation and academic study. Restricted to Las Cruces campus only.

DANC 226 L. Modern Dance Technique II Lab 1 Credit

This course is designed for the acquisition of intermediate level modern dance technique and skill development. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 227. Tap Dance II

1 Credit

Continued study of skills and techniques of tap dance at the advanced level. May be repeated for a maximum of 2 credits. **Prerequisite:** DANC 127 or consent of instructor.

DANC 229. Flamenco II

2 Credits

The study of theory, techniques and practice of Flamenco at the intermediate level. Includes historical and cultural contexts of this art form. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 129.

DANC 229 L. Flamenco Dance II Lab

1 Credit

This course is designed for the acquisition of intermediate level Flamenco dance technique and skill development. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 232. Bronze International Latin 2 Credits

This is the style of Latin dance that is danced around the globe and is featured in the World DanceSport Championships. Students will learn the Bronze Level figures and techniques in four (4) International Style dances: Rumba, Cha Cha, Samba & Jive. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

DANC 235. Bronze International Standard 2 Credits

This is the style of Ballroom dance that is performed around the globe and is featured in the World DanceSport Championships. Learn the Bronze Level figures and techniques in five (5) International Style dances: Waltz, Tango, Viennese Waltz, Foxtrot & Quickstep. Students will focus on understanding technical elements of dance, memorizing and performing routines. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

DANC 279. Flamenco Choreography I 3 Credits

Students develop and perform solo dance studies with an emphasis placed on the development of personal movement vocabulary, phrase building, and the exploration of choreographic tools for Flamenco on stage. Discussion, critiquing, and descriptive writing about their choreographic processes will supplement direct physical work. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 280. Dance Improvisation

2 Credits

Development of movement improvisational skills with complex examination of improvisational structures. Restricted to Las Cruces campus only.

DANC 289. Principles of Choreography I 3 Credits

Solo dance choreography technique. Course must be passed with a grade of C or higher. Consent of Instructor required. Restricted to: DANC majors. Restricted to Las Cruces campus only. **Prerequisite(s):** DANC 202.

DAS-DENTAL ASSISTING (DAS)

DAS 101. Introduction to Dental Assisting 2 Credits

An introduction to the duties and responsibilities of a dental assistant. Includes brief lessons on head and neck anatomy, chair side assisting, sterilization techniques, dental office emergencies, and dental office management. Restricted to: Community Colleges only.

DAS 111. Bio-Dental Science

4 Credits (3+3P)

An introduction to biomedical and dental sciences with emphasis on head and neck anatomy and tooth morphology. Includes microbiology, general anatomy and physiology, histology and embryology of the oral cavity, pathology and pharmacology as they relate to dentistry. **Corequisite(s):** DAS 113, DAS 115, and DAS 117.

Prerequisite(s)/Corequisite(s): PSY 201G, PHLS 150G, and HNDS 251. Prerequisite(s): ENGL 111G, BIOL 154, and (COMM 253G or COMM 265G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 113. Dental Assisting I 4 Credits (2+6P)

Introduction to chair side assisting procedures, instrumentation, infection control, equipment safety and maintenance, dental office emergencies, and management of pain and anxieties.

Corequisite(s): DAS 111, DAS 115, and DAS 117.

Prerequisite(s)/Corequisite(s): PSY 201G, PHLS 150G, and HNDS 251. Prerequisite(s): ENGL 111G, BIOL 154, and (COMM 253G or COMM 265G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 115. Dental Radiology

3 Credits (2+3P)

Radiation physics, hygiene, and safety theories. Emphasis on the fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, and other ancillary radiographic techniques.

Corequisite(s): DAS 111, DAS 113, and DAS 117.

Prerequisite(s)/Corequisite(s): PSY 201G, PHLS 150G, and HNDS 251. Prerequisite(s): ENGL 111G, BIOL 154, and (COMM 253G or COMM 265G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 117. Dental Materials

3 Credits (2+3P)

Composition, chemical and physical properties, manipulation and uses of dental materials. Laboratory experiences include the application and manipulation of various materials used in dentistry.

Corequisite(s): DAS 111, DAS 113, and DAS 115.

Prerequisite(s)/Corequisite(s): PSY 201G, PHLS 150G, and HNDS 251. Prerequisite(s): ENGL 111G, BIOL 154, and (COMM 253G or COMM 265G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 123. Dental Assisting Practicum

6 Credits (1+15P)

This course is the clinical component of the program that combines general practice and experiences in the work place. Seminar topics focus on the practicum experiences and critique of performance. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117. Corequisite(s): DAS 125, DAS 127, and DAS 129.

DAS 125. Professional Concepts 3 Credits

Emphasis on the development of professionalism for the dental office. Includes oral communication, psychology, patient relations, problemsolving skills, stress management, and employability in addition to dental jurisprudence and ethics. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117. **Corequisite(s):** DAS 123, DAS 127, and DAS 129.

DAS 127. Dental Office Management 2 Credits

This capstone course is an introduction to business office procedures, including telephone management, appointment control, accounts payable, completion of third party reimbursement forms, inventory control data entry for charges and payments, management recall, basic dental computer software and operating basic business equipment. Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117. **Corequisite(s):** DAS 123, DAS 125, and DAS 129.

DAS 129. Preventive Dentistry

2 Credits

Prevention of dental diseases, oral hygiene instruction, fluoride, community dental health, and nutrition. Development, implementation and evaluation of a community dental health project. Restricted to Alamogordo, Carlsbad and Dona Ana campuses. **Prerequisite(s):** DAS 111, DAS 113, DAS 115, and DAS 117. **Corequisite(s):** DAS 123, DAS 125, and DAS 127.

DAS 130. Dental Assisting II

4 Credits (2+6P)

Continuation of chair side assisting skills and techniques with a major emphasis on four-handed dentistry. This capstone course includes specialties within dentistry and expanded chair side functions. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, DAS 117, DAS 123, DAS 125, DAS 127, and DAS 129.

DAS 131. Dental Office Management I 3 Credits

Introduction to the field of dental office management with emphasis placed on professional verbal and written communication skills utilized within the dental office. Content includes dental terminology, charting, and back office experience as they relate to dental reception and management.

Prerequisite(s)/Corequisite(s): DAS 101, AHS 120, and AHS 202. Prerequisite(s): ENGL 111G. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 133. Dental Office Management II 3 Credits

Places emphasis on computer programs specifically designed for dental office management (Dentrix, Sof Dent, etc.) Expanded course content on oral communication and telephone skills, appointment scheduling, patient relations, stress management solutions, and comprehensive critical thinking/problem solving skills.

Prerequisite(s)/Corequisite(s): AHS 202. Prerequisite(s): ENGL 111G, DAS 101, and AHS 120. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 155. Special Topics

1-6 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits. **Prerequisite:** consent of instructor.

DHYG - DENTAL HYGIENE/HYGIENIST (DHYG)

DHYG 110. Preclinical Dental Hygiene 3 Credits

Basic scientific principles and current theory, prevention of disease transmission, ethical and professional treatment of patients, clinical learning preparation, and introduction to comprehensive patient care. Offered concurrently with DHYG 112 to provide dental hygiene students with introductory knowledge, skills and attitudes to function in the clinical setting. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 112. Preclinical Dental Hygiene Lab 3 Credits

Clinical application to basic theories and procedures used in dental hygiene practice. Techniques of instrumentation used in performing diagnostic, preventive and therapeutic services utilized when providing comprehensive patient care. Student will practice these techniques on manikins and student partners in the clinic. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 114. Oral Histology and Embryology 2 Credits

Introduction and description of general histology and embryology with emphasis on the microscopic structures of enamel, dentin, pulp, cementum, periodontal ligament, bone, oral mucosa, epithelial attachment and development of orofacial structures. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 116. Head and Neck Anatomy 3 Credits

Comprehensive study of the anatomy of the head and neck regions, including skeletal, nervous, circulatory, lymphatic, and muscular systems. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 117. Dental Anatomy

2 Credits (2+1P)

A detailed study of nomenclature, morphologic characteristics, and physiologic relationships of human primary and permanent teeth as related to the clinical practice of dental hygiene. Laboratory activities develop observation and dexterity skills. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 118. Dental Radiology 3 Credits (3+4P)

Study of radiation physics, hygiene and safety theories. Fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, ancillary radiographic techniques and application to dental hygiene treatment. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 120. Dental Hygiene Theory I 3 Credits

Continuation of the theoretical basis for dental hygiene clinical practice. Emphasis on emergency care, planning dental hygiene care, health promotion and disease prevention, oral rehabilitation and care of appliances, modifications of dental hygiene care through the life-span, and an introduction to medically comprised patients. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 122. Clinical Dental Hygiene I 3 Credits

Application of dental hygiene procedures on a variety of clinical patients under direct supervision of faculty. Emphasis on patient assessment and diagnosis, treatment procedures, appointment planning and prevention techniques. Theory is simultaneously related to practical experience. Offered concurrently with DHYG 120. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 124. General and Oral Pathology 3 Credits

Introduction to general pathology with focused study of diseases and disorders of the oral cavity and their interrelationship with body systems; developmental anomalies of the teeth and jaws; manifestations of disease in the oral cavity, head and neck. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 126. Periodontology 3 Credits

Study of normal and diseased periodontium to include the structural, functional and environmental factors. Emphasis on etiology, pathology, evaluation of disease, treatment modalities, and therapeutic and preventative periodontics relative to the hygienist's role as a co-therapist in a contemporary practice setting. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 132. Clinical Dental Hygiene II 2 Credits

Continuation of clinical skills, patient assessment and diagnosis, treatment and appointment planning, preventive techniques and application of dental hygiene procedures at an intermediate level under the direct supervision of faculty. Clinical-based instruction helps students synthesize new knowledge, apply previous knowledge, and gain experience managing the workflow. Theory is simultaneously related to practical experience. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** "C" or above in DHYG 120, DHYG 122, DHYG 124, DHYG 126, DHYG 134.

Corequisite(s): DHYG 218.

DHYG 134. Dental Materials 3 Credits (2+2P)

Study of the composition, chemical and physical properties, manipulations, and uses of dental materials. Emphasis on materials and procedures for which the dental hygienist is directly responsible. Laboratory experiences include application and manipulation of various materials used in dentistry. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 210. Dental Hygiene Theory III 2 Credits

Advanced theory of dental hygiene and information on periodontal therapies relative to the hygienist's role as a co-therapist in clinical practice. Continuation of the study of dental hygiene care for medically comprised patients and an introduction to special needs patients. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 212. Clinical Dental Hygiene III 4 Credits

Continuation of clinical skills, patient assessment and diagnosis, treatment and appointment planning, preventive techniques and applications of dental hygiene procedures at the intermediate to competent level under supervision of faculty. Emphasis on dental hygiene treatment for the medically compromised and periodontally involved patients. Theory is simultaneously related to practical experience. Offered concurrently with DHYG 210. May be repeated up to 4 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 214. Dental Pharmacology 3 Credits

Study of the pharmacologic aspects of drugs and drug groups with which the dentist and dental hygienist are directly and indirectly concerned. Emphasis is placed on nomenclature, origin, physical and chemical properties, preparation, modes of administration and effects of drugs upon the body systems. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 215. Medical and Dental Emergencies 2 Credits

This course provides an overview of medical and dental emergencies encountered most frequently in the dental setting. It also provides the student with knowledge and techniques on how to address those emergencies should they occur. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 217. Research Methodology

2 Credits

This course provides an introduction to the principles and application of research methods in social, behavioral and medical research. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 218. Pain and Anxiety Management 2 Credits

Study of the application of various physical, chemical, and psychological modalities to the prevention and treatment of preoperative and postoperative patient anxiety and pain. Emphasis on administration of local anesthesia and nitrous oxide. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 219. Pain and Anxiety Management Clinical 1 Credit

Clinical application of concepts learned in DHYG 218. Emphasis on the administration and techniques of local anesthesia and monitoring nitrous oxide. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

Prerequisite(s): DHYG 218.

DHYG 220. Dental Hygiene Theory IV 3 Credits

Theoretical preparation for advanced clinical practice. In-depth study of dental hygiene care for patients with special needs. Case Study presentations and a Board Review are utilized to demonstrate the synthesis of comprehensive dental hygiene knowledge, skills and attitudes. The most current dental and dental hygiene technology will be reviewed as it related to clinical practice. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 222. Clinical Dental Hygiene IV 4 Credits

Clinical sessions combine basic and advanced dental hygiene skills with time management techniques essential for private practice. Comprehensive patient care to include assessment, dental hygiene diagnosis, treatment planning, implementation and evaluation of dental care, nonsurgical periodontal therapy, adjunct clinical procedures, ultrasonic instrumentation, patient management, sealants, and comprehensive programs for control of oral diseases will be emphasized. Theory is simultaneously related to practical experience. Students are encouraged to develop independent decision-making with minimal faculty supervision. May be repeated up to 4 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 224. Principles of Practice

2 Credits

Examination of the dental hygienist's role in both traditional and non-traditional employment settings. Career planning, resume preparation and interviewing are practices. An understanding of the law, professional ethics of dental hygiene and the need for lifelong learning are emphasized. Future roles of the dental hygienist and emerging issues in dental hygiene will be explored. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 225. Dental Public Health Education 3 Credits

Study of principles and concepts of community public health and dental health education. Emphasis on dental epidemiology and statistical methods, community assessment, educational planning, implementation, and evaluation, scientific review of literature, and classroom presentation. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 255. Special Topics in Dental Hygiene 1-6 Credits (1-6)

Study of special topics related to the advanced practice of dental hygiene. May include educational methodology as well as applications in clinical practice, research, or community service. Consent of instructor required. Restricted to: Community Colleges only. Restricted to DHYG majors.

DMS-DIAGNOSTIC MED SONOGRAPHY (DMS)

DMS 100. Introduction to Clinical Practicum 1 Credit

Introduction to working in the medical environment. Includes preparation for clinical internship and observation hours in the ultrasound department. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 101. Introduction Sonography/Patient Care 2 Credits

Introduction to the careers in sonography, terminology, medical ethics, scanning planes, applications of ultrasound, professional standards and patient care. May be repeated up to 2 credits. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 116. Vascular Technology I

2 Credits

Review of basic ultrasound physics and principles, peripheral vascular anatomy, hemodynamics, Doppler evaluation, peripheral vascular scanning techniques, physiologic testing and the carotid arteries and the peripheral vascular system. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 116 L. Vascular Technology I Lab 1 Credit

Includes protocol development, scanning techniques, recognition of anatomical relationships and the normal ultrasound appearance of the carotid arteries and peripheral vasculature utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 130. Pelvic Sonography

1 Credit

Includes the anatomy, sectional anatomy and normal physiology of the pelvic structures; including the uterus, ovaries, prostate, pelvic muscles, lower GI, appendix and vessels as well as scanning techniques, sonographic appearance and Doppler evaluation of the pelvis. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 130 L. Pelvic Sonography Lab 1 Credit

Includes protocol development, scanning techniques, recognition of anatomical relationships and the normal ultrasound appearance of the pelvic structures including the uterus, ovaries, prostate, lower gastrointestinal system, appendix and pelvic muscles utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 140. Abdominal Sonography 3 Credits

Includes the anatomy, sectional anatomy and normal physiology of prevertebral vessels, liver, biliary system, pancreas, upper gastrointestinal system, kidneys, adrenals, and spleen as well as scanning techniques, sonographic appearance and Doppler evaluation of the deep abdominal organs. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 140 L. Abdominal Sonography Lab 1 Credit

Includes protocol development, scanning techniques, recognition of anatomical relationships and the normal ultrasound appearance of prevertebral vessels, liver, biliary system, pancreas, upper gastrointestinal system, kidneys and spleen utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 150. Sonographic Principles and Instrumentation I 1 Credit

Includes the fundamental properties and mathematical relationships between variables of wave parameters, acoustic variables, attenuation, pulsed wave operation, transducers, system operation, Doppler, and artifacts utilizing real-time sonographic equipment. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 160. 1st Trimester Obstetric Sonography 1 Credit

Includes the embryology, anatomy, sectional anatomy, normal physiology, biometrics, assessment, and sonographic appearance of the 1st trimester fetus, placenta, uterus and adnexa as well as scanning techniques according to recognized protocols. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 165. 2nd/3rd Trimester Obstetric Sonography 1 Credit

Includes the anatomy, sectional anatomy, normal physiology, biometrics, assessment, and sonographic appearance of the 2nd and 3rd trimester fetus, placenta, uterus, and adnexa as well as scanning techniques according to recognized protocols. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 170. Clinical Practicum I 2 Credits (8-10P)

Development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at the developmental level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under direct supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 180. Clinical Practicum II 5 Credits

Development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at the beginner level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continue observation, assistance and performance of patient care and sonographic duties under direct supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 201. Applied Sonographic Procedures 1 Credit

Advances scanning skills, system optimization, anatomic recognition of abdominal and pelvic structures utilizing real-time sonographic equipment including Doppler. Includes sonographic evaluation of the first trimester pregnancy and normal fetus. Restricted to: DMS majors. Restricted to Las Cruces campus only.

DMS 216. Vascular Technology II 2 Credits

Includes the pathology and pathophysiology of the vascular system, scanning techniques, clinical presentation, ultrasound appearance and Doppler evaluation seen with pathological conditions of the carotid arteries, deep and peripheral vascular systems. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 216 L. Vascular Technology II Lab 1 Credit

Includes progressive development of skills following recognized protocols, scanning techniques, recognition of anatomical relationships with differentiation of normal and abnormal ultrasound appearance of the carotid arteries, deep and peripheral vascular systems utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 226. Sonographic Case Studies I 1 Credit

Includes integration of didactic knowledge, clinical presentation, laboratory values, sonographic appearance and related medical imaging of a variety of pathological conditions through a variety of case analysis and presentations. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 227. Sonographic Case Studies II 1 Credit

Continuation of DMS 226, integration of didactic knowledge, clinical presentation, laboratory values, sonographic appearance and related medical imaging of a variety of pathological conditions through a variety of case analysis and presentations. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 230. Gynecologic Pathology 2 Credits

Includes the pathology and pathophysiology of the female reproductive system, scanning techniques, clinical presentation, ultrasound appearance and Doppler evaluation seen with pathological conditions of the uterus, ovaries, and adnexa. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 240. Abdominal Pathology I 2 Credits

Includes the pathology and pathophysiology of abdominal structures of the prevertebral vessels, liver, biliary system, pancreas, spleen and gastrointestinal system; scanning techniques, ultrasound appearance, clinical presentation and Doppler evaluation seen with pathological conditions. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 245. Abdominal Pathology II

2 Credits

Includes the pathology and pathophysiology of abdominal structures of the genitourinary system, spleen, retroperitoneum, adrenal glands, abdominal wall and prostate; scanning techniques, ultrasound appearance, clinical presentation and Doppler evaluation seen with pathological conditions. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 248. Pediatric Sonography 2 Credits

Includes the anatomy of the brain, skull, spine, hips, and normal developmental changes as well as pathology and pathophysiology of specific conditions that affect the premature infant, newborn and pediatric population across a variety of body systems. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 250. Sonographic Principles and Instrumentation II 3 Credits

Includes properties of sound and its use in diagnostic imaging, artifacts, system operation, Doppler, basic hemodynamics, image optimization, bio effects, quality assurance, and new technologies in ultrasound imaging. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 255. Vascular Physics

2 Credits

Includes a review of sound properties and its use in diagnostic imaging, artifacts, system operation, Doppler, image optimization, bio effects, quality assurance, and in-depth application of fluid properties and hemodynamics in vascular ultrasound imaging. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 260. High Risk Obstetric Sonography 3 Credits

Includes congenital malformations of the developing fetus, high risk pregnancies, multiple gestation, maternal conditions and invasive procedures. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 270. Clinical Practicum III 5 Credits

5 Credits

Continued development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at an intermediate level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under limited supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 280. Clinical Practicum IV 5 Credits

Application of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at a proficient level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under limited supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 290. Small Parts & Superficial Structures 2 Credits

Includes anatomy, pathology and pathophysiology, protocol development, scanning techniques, recognition of anatomical structures and the normal and pathological ultrasound appearance of the breast, thyroid, neck, scrotum, non-cardiac chest and musculoskeletal ultrasound. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 291. Registry Preparation: OB/GYN 1 Credit

Registry preparation mock examinations over materials covered in Obstetric and Gynecological ultrasound. Students must pass this course with a 74% or better OR pass national certification in OB/GYN Sonography. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 292. Registry Preparation: Abdomen 1 Credit

Registry preparation mock examinations over materials covered in abdominal ultrasound including small parts and superficial structures. Students must pass this course with a 74% or better OR pass ARDMS national certification exam in Abdominal Sonography. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 293. Registry Preparation: Vascular 1 Credit

Registry preparation mock examinations over materials covered in vascular ultrasound. Students must pass this course with a 74% or better OR pass national certification in Vascular Technology. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DRFT-DRAFTING (DRFT)

DRFT 101. Introduction to Drafting and Design Technologies 1 Credit

Professional and student organizations associated with the Drafting and Design Technologies program, degree requirements, employment skills and work habits, and university and college policies and procedures will be explored. Students will be introduced to the current learning management system and career-readiness certification. Restricted to Community Colleges only.

DRFT 105. Technical Drawing for Industry 3 Credits (2+2P)

Technical sketching, basic CAD, and interpretation of drawings with visualization, speed and accuracy highly emphasized. Areas of focus include various trades such as machine parts, welding, heating and cooling, and general building sketches/plan interpretation.

DRFT 108. Drafting Concepts/Descriptive Geometry 2 Credits (1+2P)

Basic manual drafting skills, sketching, terminology and visualization. Graphical solutions utilizing applied concepts of space, planar, linear and point analyses. Metric and S.I. units introduced.

DRFT 109. Computer Drafting Fundamentals 3 Credits (2+2P)

Introduction to principles and fundamentals of drafting using both manual drawing techniques and computer-aided drafting (CAD) applications. May be repeated up to 3 credits. Crosslisted with: E T 109 and C E 109. Restricted to Community Colleges campuses only.

DRFT 112. Drafting Concepts/Computer Drafting Fundamentals I 4 Credits (2+4P)

Basic drafting skills, terminology, and visualization. Introduction to principles and fundamentals of computer-aided drafting. Same as E T 106.

Prerequisites: OECS 207, OECS 125 or consent of instructor.

DRFT 113. Drafting Concepts/Computer Drafting Fundamentals II 4 Credits (2+4P)

Drafting for mechanical/industrial applications; machine part detailing, assemblies in orthographic, isometric, auxiliary, oblique, and sectional views. Two-dimensional AutoCAD with introduction to 3-D AutoCAD. Same as E T 216. Restricted to: Community Colleges only. **Prerequisite:** DRFT 112.

DRFT 114. Introduction to Solid Modeling 3 Credits (2+2P)

2D mechanical drafting and 3D mechanical solid modeling utilizing the latest version of AutoCAD software. Industry dimensioning and annotation standards will be emphasized. 2D multi-view working drawings, 3D solid models, and basic 3D model assemblies will be introduced. Restricted to Community Colleges campuses only. **Prerequisite(s):** DRFT 109.

DRFT 115. General Construction Safety 3 Credits

Overview of general construction safety related to building, highway and road construction, and surveying field work for entry-level individuals. Students will also have the opportunity to earn a 10-hour construction industry OSHA card. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

DRFT 120. Survey Equipment Fundamentals 2 Credits

Introduces the application and the setup to the following surveying equipment: Automatic Level, Total station, and Global Positioning Systems. Field safety knowledge is required. Restricted to Community Colleges only.

DRFT 124. Introduction to Geometric Dimensioning and Tolerancing 3 Credits (2+2P)

Introduction to geometric dimensioning and tolerancing (GD&T) for the mechanical CAD drafting, solid modeling, mechanical engineering technology, mechanical engineering, and manufacturing industries. Related industry standard finishes and fasteners will also be introduced and explored.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

DRFT 130. General Building Codes

3 Credits (2+2P)

Interpretation of the Building Code, local zoning codes, A.D.A. Standards and the Model Energy Code to study construction and design requirements and perform basic plan checking. Restricted to: Community Colleges only.

DRFT 135. Electronics Drafting I 3 Credits (2+2P)

Drafting as it relates to device symbols; wiring, cabling, harness diagrams and assembly drawings; integrated circuits and printed circuit boards; schematic, flow and logic diagrams; industrial controls and electric power fields. Drawings produced using various CAD software packages. **Prereguisites:** DRFT 108 and DRFT 109.

DRFT 143. Civil Drafting Fundamentals

3 Credits (2+2P)

Introduction to drafting in the field of Civil Engineering. Drawings, projects, and terminologies related to topographic, contour drawings, plan and profiles, and street/highway layout. Crosslisted with: E T 143. Restricted to Community Colleges only. **Prerequisite(s):** DRFT 109.

DRFT 151. Construction Principles and Print Reading 3 Credits (2+2P)

Introduction to construction materials, methods, and basic cost estimating and print reading applicable in today's residential, commercial, and public works industry. Instruction by print reading and interpretation, field trips, and actual job-site visits and progress evaluation.

DRFT 153. Survey Drafting Applications 3 Credits (2+2P)

Introduction to drafting in the field of survey engineering. Drawings, projects and terminologies related to Point Data, topography, land/ boundary surveys, legal descriptions and plat surveys. Using the current Autodesk software. Crosslisted with: SUR 143. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

DRFT 160. Construction Take-Offs and Estimating 3 Credits (2+2P)

Computing and compiling materials and labor estimates from working drawings using various techniques common in general building construction and in accordance with standard specifications and estimating formats. Use of spreadsheets and estimating software introduced.

Prerequisite: DRFT 151.

DRFT 161. Introduction to Construction Management 3 Credits

Introduction to the construction industry and construction management; construction documents and contracts; project planning, scheduling and administration; construction site management; and the role of Building Information Modeling (BIM) in construction management. Pre/ Restricted to: Community Colleges only.

Corequisite(s): DRFT 151 or consent of instructor.

DRFT 164. Intermediate Mechanical Drafting/Solid Modeling 3 Credits (2+2P)

Intermediate 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Autodesk Inventor software. The creation of 2D working drawings from 3D solid models will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), basic material properties, and industry standard fastening and manufacturing methods will be introduced.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

DRFT 165. Introduction to Building Information Modeling 3 Credits (2+2P)

Introduction to Building Information Modeling (BIM) in the development of virtual 3D building models, construction documents, renderings and basic animations related to architectural, structural, and mechanical/ electrical/plumbing building components. Utilizes the latest BIM technologies in the integration one, parametric BIM. Restricted to Community Colleges campuses only.

DRFT 176. Solid Modeling, Rendering and Animation

3 Credits (2+2P)

Introduction to three dimensional drafting and solid modeling, rendering and animation for architecture and engineering fields. Material application, mapping, and scene lighting will be introduced. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

DRFT 180. Residential Drafting

3 Credits (2+2P)

Basic residential drafting including, floor plans, foundation plans, sections, roof plans, exterior and interior elevations, and site plans. Applicable residential building and zoning codes, construction methods and materials, adaptable residential design, and drawing and sheet layout for architectural drafting will be introduced. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 109.

DRFT 181. Commercial Drafting

3 Credits (2+2P)

Drafting principles, plan coordination, and code analysis applicable in the development of working drawings for commercial, public, and industrial building projects. Students will utilize National Cad Standards, ADA Standards, and will be introduced to modern office practice. Pre/ Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109. Corequisite(s): DRFT 180.

DRFT 190. Finding and Maintaining Employment 2 Credits

Techniques in self-evaluations, resume writing, application completion, job interviewing, and job retention. Exposure to work ethics, employee attitudes, and employer expectations.

DRFT 204. Geographic Information Systems Technology 3 Credits (2+2P)

The use of digital information for which various digitized data creation methods are captured. Users will capture, store, analyze and manage spatially referenced data in a modeled mapping procedure. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

DRFT 214. Advanced Solid Modeling

3 Credits (2+2P)

Advanced 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Solidworks software. The creation of 2D working drawings from 3D solid models and the creation of 3D models for machining/manufacturing will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), material properties, and industry standard fastening and manufacturing methods will be further explored. Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

DRFT 215. Construction Site Safety Management 3 Credits

Construction safety, compliance, documentation, and reporting requirements for individuals with construction site safety management responsibilities. Students will have the opportunity to earn a 30-hour construction industry OSHA card. Consent of Instructor required. Restricted to Community Colleges campuses only.

DRFT 222. Surveying Fundamentals 3 Credits (2+3P)

Theory and practice of geomatics as applied to plane surveying in the areas of linear measurements, angle measurements, area determination, differential and trigonometric leveling, and topographic mapping. Crosslisted with: SUR 222. Restricted to Community Colleges campuses only.

Prerequisite(s): MATH 190G.

DRFT 230. Building Systems Drafting 3 Credits (2+2P)

Development of working drawings for electrical, plumbing, and HVAC systems, for residential and commercial building through the applications of both 2D Drafting and 3D Building Information Modeling (BIM) techniques. Basics of project setup, National CAD Standards, ADA Standards, modern office practice, code analysis, as well as Sustainability and LEED for new construction. Restricted to: Community Colleges only. Prerequisite(s): DRFT 180 or DRFT 181.

DRFT 231. Construction Methods and Equipment 3 Credits (2+2P)

Introduction to methods and equipment utilized in the construction industry including, common construction equipment, equipment utilization, equipment operating costs, site and earthwork, applicable specifications and testing, and related planning and safety considerations. Restricted to Community Colleges campuses only. Prerequisite(s): DRFT 151.

DRFT 240. Structural Systems Drafting 3 Credits (2+2P)

Study of foundations, wall systems, floor systems and roof systems in residential, commercial and industrial design/construction. Produce structural drawings including foundation plans, wall and building sections, floor and roof framing plans, shop drawings and details; schedules, materials lists and specifications. Use of various software. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): DRFT 180 or DRFT 181. Restricted to Community Colleges campuses only.

DRFT 242. Roadway Development Drafting 3 Credits (2+2P)

Advanced civil/survey technology and drafting related to roadway development. Emphasis is on relevant terminology, codes/standards, and the production of complex working drawings such as topographical/ grading, drainage, master utilities, roadway P P/details/etc., according to agency standards. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 143.

DRFT 243. Land Development Drafting 3 Credits (2+2P)

Advanced civil/survey technology and drafting related to land development. Emphasis is on relevant terminology codes/standards, and the production of complex working drawings such as subdivision plats, local utility and drainage plans, construction details roadway P P, etc., according to local development/ agency standards. Prerequisite: DRFT 143 and DRFT 153.

DRFT 250. Principles of Detailing and Design 3 Credits (2+2P)

Advanced practice in construction documentation in the development and coordination of working drawings & specifications. In particular, will utilize Architectural Graphic Standards, National CAD Standards, and ADA standards to develop detail drawings related to Architectural, Civil, Structural and Building Mechanical systems. Will also be introduced to basic principles, factors, and process of building design such as space planning, site analysis, and basic architectural programming. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): DRFT 180 or DRFT 181. Restricted to Community Colleges campuses only.

DRFT 254. Spatial Data Processing

3 Credits (2+2P)

Utilizes the tools and technologies of GIS, processing volumes of geodata identifying a numerical, coded or listed map. Involves the analysis of spatial data from various diverse applications and place in a descriptive mapping process. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 204.

DRFT 255. Independent Study

1-3 Credits (1-3)

Instructor-approved projects in drafting or related topics specific to the student's individual areas of interest and relevant to the drafting and graphics technology curriculum. Consent of instructor required. May be repeated for a maximum of 6 credits.

DRFT 261. Construction Scheduling and Project Management 3 Credits (2+2P)

Introduction to construction scheduling and project management. Restricted to Community Colleges campuses only. **Prerequisite(s):** DRFT 161.

DRFT 265. Advanced Building Information Modeling Applications 3 Credits (2+2P)

Advanced applications of Building Information Modeling (BIM) including the creation of, and practice in collaborative work sets, data and design analyses, energy modeling and analysis, preliminary LEED analysis, construction take-offs & estimation, and construction animation, through use of various BIM and related software. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 165.

DRFT 274. GIS Theory and Analysis

3 Credits (2+2P)

Analyzes the hypothesis in which location and spatial data sufficiently quantifies the appropriate statistical methodology. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** DRFT 254.

DRFT 276. Computer Rendering and Animation I 3 Credits (2+2P)

Introduction to technical applications of computer generated renderings and animations for the architecture and engineering fields. 3D models, photo-realistic renderings, and basic animation movie files will be produced utilizing industry standard modeling and animation software.

DRFT 278. Advanced CAD Applications

3 Credits (2+2P)

Introduction to advanced CAD commands, applications, usage techniques, and user customization. the latest version of the National CAD Standards will also be explored. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

DRFT 288. Portfolio Development 3 Credits (2+2P)

Production of a portfolio consisting of previously produced student work related to the student's individualized degree option. Process shall include the compilation and organization of working and presentation drawings, construction documents, BIM Models, and renderings/ animations. Students will learn the basics of design layout and online portfolio documentation. Job search and resume preparation activities will also be required. Production of new material and content may also be required. This course is designed as a last semester course in the Drafting & Design curricula. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of Instructor.

DRFT 290. Special Topics

1-4 Credits (1-4)

Topics subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

DRFT 291. Cooperative Experience 1-6 Credits (1-6)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student meets with advisor weekly. Graded S/U. **Prerequisite:** consent of instructor.

DRFT 295. Professional Development and Leadership DAGA 1 Credit

Students gain experience in leadership, team building, performing community service, and membership and/or leadership in a student organization. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

E E-ELECTRICAL ENGINEERING (E E)

E E 100. Introduction to Electrical and Computer Engineering 4 Credits (3+3P)

Introduction to analog (DC) and digital electronics. Includes electric component descriptions and equations, Ohm's law, Kirchhoff's voltage and current laws, ideal op-amp circuits, Boolean algebra, design of combinational and sequential logic circuits and VHDL or VERILOG. **Prerequisite(s)/Corequisite(s):** C- or better in MATH 190G.

E E 112. Embedded Systems

4 Credits (3+3P)

Introduction to programming through microcontroller-based projects. Extensive practice in writing computer programs to solve engineering problems with microcontrollers, sensors, and other peripheral devices. **Prerequisite(s)/Corequisite(s):** E E 100.

E E 200. Linear Algebra, Probability and Statistics Applications 4 Credits (3+3P)

The theory of linear algebra (vectors and matrices) and probability (random variables and random processes) with application to electrical engineering. Computer programming to solve problems in linear algebra and probability.

Prerequisite(s): C- or better in E E 112 and MATH 192G.

E E 212. Introduction to Computer Organization

4 Credits (3+3P)

Concepts of modern computer organization, CPU control, pipelining, memory hierarchies, memory mapping, hardware-software interface, and operating systems.

Prerequisite(s)/Corequisite(s): E E 112. Prerequisite(s): C- or better in E E 100 and MATH 190G.

E E 230. Circuit Analysis and Introduction to Electronics

4 Credits (3+3P)

Circuit analysis techniques, RLC transients, phasors, filter response, and an introduction to discrete electronic devices.

Prerequisite(s)/Corequisite(s): PHYS 216G. Prerequisite(s): C- or better in E E 100 and MATH 192G.

E E 240. Multivariate and Vector Calculus Applications 3 Credits

Vector algebra, cylindrical and spherical coordinates, partial derivatives, multiple integrals. Calculus of vector functions through electrostatic applications. Divergence, gradient, curl, divergence theorem, Stokes's theorem, Coulomb's Law, Gauss's Law, electric field, electric potential. Applications in Matlab.

Prerequisite(s): C- or better in MATH 192G and E E 112.

E S-ENVIRONMENTAL SCIENCE (E S)

E S 110G. Introductory Environmental Science

4 Credits (3+2P)

Introduction to environmental science as related to the protection, remediation, and sustainability of land, air, water, and food resources. Emphasis on the use of the scientific method and critical thinking skills in understanding environmental issues.

E S 256. Environmental Engineering and Science 3 Credits

Principles in environmental engineering and science: physical chemical systems and biological processes as applied to pollution control. Restricted to: Main campus, Alamogordo campus, Grants campus, Carlsbad campus. Crosslisted with: C E 256 **Prerequisite(s):** CHEM 111G and MATH 191G.

E S 256 L. Environmental Science Laboratory

1 Credit

Laboratory experiments associated with the material presented in E S 256. Same as C E 256L. Corequisite: E S 256.

E T-ENGINEERING TECHNOLOGY (E T)

E T 101. Introduction to Engineering Technology and Geomatics 3 Credits

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. S/U Grading (S/U, Audit).

E T 104. Soldering Techniques

1 Credit

Fundamentals of soldering, desoldering, and quality inspection of printed circuit boards.

E T 106. Drafting Concepts/Computer Drafting Fundamentals I 4 Credits (2+4P)

Basic drafting skills, terminology, and visualization. Introduction to principles and fundamentals of computer-aided drafting. Community Colleges only. Same as DRFT 112.

Prerequisite: OECS 125, OECS 207, or consent of instructor.

E T 109. Computer Drafting Fundamentals

3 Credits (3+2P) Crosslisted with: DRFT 109, C E 109 and SUR 109

E T 110. Introduction to 3-D Modeling (Solid Works) 3 Credits (2+3P)

Introduction to SolidWorks, a 3-D modeling software. The foundation for designing mechanical parts and assemblies.

E T 120. Computation Software

2-3 Credits (2-3)

The use of spreadsheet software in the field of engineering technology.

E T 125. Introduction to Renewable Energy 3 Credits

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.

E T 153. Introduction to Computer Networks 3 Credits

Introduction to basic computer network fundamentals including International Open Systems Interconnect (OSI), the seven-layer model, and various networking hardware devices. Community Colleges only.

E T 154. Construction Methods and Communications 3 Credits

Blueprint reading, specifications, and introduction to materials used in construction.

E T 155. Network Operating Systems I

3 Credits (3+1P)

Introduction to a computer network operating system. May not be used as part of an E T degree program on main campus. Restricted to: Community Colleges only.

Prerequisite(s): E T 120 or E T 122.

E T 156. Introduction to Information Security

2 Credits

This course introduces information security terminology, historical evolution of digital security, types of PC and network system vulnerabilities and types of information loss. In addition, methods of information protection and integrity, intrusion detection, and recovery of data are introduced.

Prerequisite(s)/Corequisite(s): E T 120. Restricted to Community Colleges campuses only.

E T 160. Windows Fundamentals for IET

3 Credits

Fundamental review of the Windows operating system including installation and upgrades as well as managing applications, files, folders, devices and maintenance.

E T 182. Digital Logic

3 Credits

The use of truth tables, Boolean equations, and diagrams to define, simplify, and implement logic-valued functions.

E T 183. Applied DC Circuits

3 Credits (2+2P)

Application of Ohm's law, Kirchhoff's laws, Thevenin's, and Norton's theorems to the analysis of DC passive circuits. Embedded Lab. **Prerequisite(s)/Corequisite(s):** MATH 121G.

E T 183 L. Applied DC Circuits Lab

1 Credit DC applied circuits lab. Corequisite(s): E T 183.

E T 184. Applied AC Circuits

3 Credits (2+2P)

Application of circuit laws and theorems to analysis of AC passive circuits. Resonant circuit, polyphase circuit and magnetic circuit topics are introduced. Embedded Lab.

Prerequisite(s)/Corequisite(s): MATH 190G. Prerequisite(s): E T 183.

E T 184 L. Applied AC Circuits Lab 1 Credit AC applied circuits lab

Corequisite(s): E T 184.

E T 190. Applied Circuits

4 Credits (3+2P)

Application of Ohm's law, Kirchhoff's laws, and Thevenin's theorems to the analysis of AC and DC passive circuits. Electronic circuit topics are introduced. Embedded lab.

Prerequisite(s)/Corequisite(s): MATH 190G.

E T 191. Applied Circuits Laboratory 1 Credit

Applied Circuits Lab

E T 200. Special Topics

1-3 Credits

Directed study or project. May be repeated for a maximum of 6 credits. **Prerequisite:** consent of department head.

E T 203. Computational Foundations

3 Credits

Fundamental concepts of various proof techniques. These concepts will be applied to the use of computer algorithms, programming languages and other engineering and technology applications. **Prerequisite(s):** MATH 190G and E T 262.

E T 210. Intermediate 3-D Modeling (Solid Works)

3 Credits (2+2P)

Intermediate 3-D modeling. Applied modeling of techniques to prepare for SolidWorks certification (CSWA).

Prerequisite(s): ET 110.

E T 217. Manufacturing Processes

3 Credits

Introduction to manufactuing and processing, including: casting, forming, and machining. Emphasis on creating products with the appropriate techniques. Crosslisted with: I E 217.

Prerequisite(s)/Corequisite(s): E T 217L. Prerequisite(s): E T 110 and MATH 121G.

E T 217 L. Manufacturing Processes Lab

1 Credit

Hands-on laboratory in machine shop to apply topics from E T 217, including: casting, forming, and machining. **Prerequisite(s)/Corequisite(s):** E T 217.

E T 220. Internship

1-6 Credits

Internship requiring an approved number of hours of varied and progressive experience in the field of study. The scope and other requirements of the internship are stated in an individualized syllabus and through a memorandum of understanding between the faculty mentor and the industry partner. May be repeated up to 6 credits. Consent of Instructor required.

Prerequisite(s): E T 283.

E T 230. Introduction to Servo Systems 1 Credit

Introduction to Servo Systems. Topics include uses of servos in the industry, servo types, lop gains and frequency response, software control systems, damping, feedback, encoders, synchros and resolvers. Restricted to Community Colleges campuses only.

Prerequisite(s): E T 246.

E T 240. Applied Statics

3 Credits

Fundamental topics of applied statics, including force system analysis, equilibrium, free body diagrams, methods of joints and sections, distributed loads, friction, centroids, area moments, and shear and moment diagrams.

Prerequisite(s)/Corequisite(s): MATH 235G or MATH191G. Prerequisite(s): PHYS 211G or PHYS 215G.

E T 241. Applied Dynamics 3 Credits

The foundation for understanding particles and bodies in motion and the forces involved, including: projectile motion, Newton's Laws of Motion, conservation of energy, and impusle and momentum.

Prerequisite(s)/Corequisite(s): (MATH 236 or MATH 192G). Prerequisite(s): E T 240.

E T 245. Computer Hardware Fundamentals 3 Credits (2+2P)

Computer hardware fundamentals including architecture, interfacing, peripherals, troubleshooting, system upgrades, and maintenance. Restricted to Las Cruces campus only.

E T 246. Electronic Devices I

4 Credits (3+3P)

Solid-state devices including diodes, bipolar-transistors, and field effect transistors. Use of these devices in rectifier circuits, small signal and power amplifiers.

Prerequisite(s): E T 190 or E T 184.

E T 253. Networking Operating Systems II

3 Credits (3+1P)

Introduction to a computer network operating system. May not be used as part of an E T degree program on main campus. Restricted to Community Colleges campuses only.

Prerequisite(s): E T 155.

E T 254. Concrete Technology

3 Credits (2+2P)

Fundamentals of aggregates, Portland cement, and asphalt used in design and construction.

E T 255. Linux System Administration

3 Credits

A system administration view of the Linux operating system covering various distributions with a focus on managing the operating system and enterprise applications that run on Linux.

E T 256. Networking Operating Systems III

3 Credits (3+1P)

Introduction to a computer network operating system. May not be used as part of an E T degree program on main campus. Restricted to Community Colleges campuses only. **Prerequisite(s):** E T 253.

E T 262. Software Technology I

3 Credits (2+2P)

An introduction to computer programming concepts as applied to engineering technology. Includes basic logic design, algorithm development, debugging and documentation. History and use of computers and their impact on society.

Prerequisite(s)/Corequisite(s): E T 182 or MATH 190G.

E T 272. Electronic Devices II

4 Credits (3+3P)

Operational amplifiers, positive and negative feedback, computer aided circuit analysis. In addition circuits include integrator, differentiators and phase shift networks.

Prerequisite(s)/Corequisite(s): MATH 235G or MATH 191G. Prerequisite(s): E T 246.

E T 273. Fundamentals of Networking Communications I 4 Credits (2+4P)

Introduction to networking basics, including computer hardware and software, electricity, networking terminology, protocols, LANs, WANs, OSI model, IP addressing, and design and documentation of basic network and structure cabling. Community Colleges only. May be repeated up to 4 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** E T 153.

E T 276. Electronic Communications

3 Credits (2+2P)

Antennas, transmission devices, A-M and F-M transmission and detection, pulse systems, microwave systems. **Prerequisite(s):** E T 246.

E T 277. Computer Networking I for IET

3 Credits (2+2P)

Computer network design and applications for LAN, TCP/IP networks, routing and switching technologies, VLANs, and the OSI layers from physical to transport.

Prerequisite(s): ET 182.

E T 280. Multimedia Tools and Support 3 Credits

Introduction to video, audio and other digital presentation methods. Addresses the latest multimedia technology advances and how they apply to the information and communication technology fields. Sample tools like ffmpeg, and Audacity are covered.

E T 282. Digital Electronics

4 Credits (3+3P)

Applications of digital integrated circuits, multiplexers, counters, arithmetic circuits, and microprocessors.

Prerequisite(s)/Corequisite(s): (E T 190 or E T 184). Prerequisite(s): E T 182.

E T 283. Hardware PC Maintenance

3 Credits (3+1P)

Installing, configuring, troubleshooting, and maintaining personal computer hardware components. **Prerequisite(s):** E T 120 or E T 122.

E T 284. Software PC Maintenance

3 Credits (3+1P)

Installing, configuring, troubleshooting, and maintaining personal computer operating systems.

Prerequisite(s): E T 120 or E T 122.

E T 285. Advanced Information Security 3 Credits

The course covers detailed analysis of network security, including security operations and policy adherence; internal and external vulnerabilities; methods of identifying, controlling and managing system access, and the protection of system information.

Prerequisite(s)/Corequisite(s): E T 283. Prerequisite(s): E T 156.

E T 286. Information Security Certification Preparation 4 Credits

The course covers the examination objectives and detailed preparation for a certification in information security. **Prerequisite(s):** E T 285.

E T 287. PC Disaster and Data Recovery 3 Credits

This course provides an overview of the various causes of personal computer data failure and methods to mitigate the loss of your personal computer data. The focus is on restoring your personal computer to full PC functionality and recovering lost and damaged files after one of these unforeseen problems. In addition, the course provides a means to lessen the impact of these inevitable events with the preparation of a disaster recovery plan.

Prerequisite(s): E T 120 or E T 122.

E T 290. Networking Wireless Communication 3 Credits (3+1P)

This course provides an introduction to wireless networking and communications. Some of the topics covered are protocols, transmission methods, and IEEE 802.11 standards. Wireless LAN (WLAN) fundamentals, devices, and security, cellular telephony, broadband, and satellite communications.

Prerequisite: E T 273.

E T 291. PC Forensics and Investigation 3 Credits

Introduction to computer forensics and investigative fundamentals. Topics include understanding computer forensic and investigation law and requirements, processing crime and incident scenes, and the extraction, preservation, analysis and presentation of computer-related evidence.

Prerequisite(s): E T 120 or E T 122.

ECED-EARLY CHILDHOOD EDUCATION (ECED)

ECED 115. Child Growth, Development, and Learning 3 Credits

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.

ECED 125. Health, Safety, and Nutrition

2 Credits

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.

ECED 135. Family and Community Collaboration 3 Credits

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.

Prerequisite(s): ECED 115 and ENGL 111G.

ECED 215. Curriculum Development Through Play 3 Credits

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 and 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 diverse abilities and the development of IFSP's and IEP's is included. Consent of instructor required.

Prerequisite(s): ECED 115 and ENGL 111G. **Corequisite(s):** ECED 220.

ECED 220. Early Childhood Education Practicum I 2 Credits

The beginning practicum course will provide experiences that address curriculum content that is relevant for children birth through age four in developmentally and culturally sensitive ways. Consent of instructor required.

Prerequisite(s): ECED 115 and ENGL 111G. **Corequisite(s):** ECED 215.

ECED 225. Curriculum Development and Implementation II 3 Credits

The second 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 diverse abilities and the development of IEP's is included. Consent of instructor required.

Prerequisite(s): ECED 115, ENGL 111G. Corequisite(s): ECED 230.

ECED 230. Early Childhood Education Practicum II 2 Credits

The second field-based curriculum course focuses on practicing developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Consent of instructor required. **Prerequisite(s):** ECED 115, ENGL 111G,. **Corequisite(s):** ECED 225.

ECED 235. Introduction to Language, Literacy and Reading 3 Credits

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. **Prerequisite(s):** ECED 115 and ENGL 111G.

ECED 245. Professionalism 2 Credits

This course provides a broad-based orientation to the field of early care and education. Early childhood history, philosophy, ethics and advocacy are introduced. Basic principles of early childhood systems are explored. Multiple perspectives on early care and education are introduced. Professional responsibilities such as cultural responsiveness and reflective practice are examined.

ECED 255. Assessment of Children and Evaluation of Programs 3 Credits

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. Crosslisted with: SPED 255

Prerequisite(s): ECED 115 and ENGL 111G.

ECED 265. Guiding Young Children 3 Credits

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.

ECED 270. Program Management

3 Credits

Technical knowledge necessary to develop and maintain a quality early care and education program. The course will focus on sound financial management and vision, laws and legal issues that affect programs and state and national standards including accreditation requirements. **Prerequisite:** consent of instructor.

ECED 275. Curriculum for Diverse Learners and Their Families 3 Credits

Implementation of family-centered programming that includes developmentally appropriate and culturally responsive curriculum. The course will also cover the establishment and maintenance of healthy and safe learning environments. Consent of instructor required.

ECED 276. Effective Program Development for Diverse Learners and Their Families

2 Credits

Practical experience in observing and carrying out the role of the director/ administrator in the implementation of family-centered programming that includes individually appropriate and culturally responsive curriculum in a healthy and safe learning environment. Consent of instructor required. Restricted to ECED majors.

Corequisite(s): ECED 275.

ECED 280. Professional Relationships 3 Credits

Development of staff relationships that will foster strong professional relationships with and among families, communities and advisory boards. Issues of staff recruitment, retention, support and supervision will lay a foundation for positive personnel management. Working effectively with board, advisory groups and community members and agencies will be addressed. Consent of instructor required. **Corequisite(s):** ECED 281.

ECED 281. Professional Relationships Practicum 2 Credits

Practical experience in the development of staff relationship that will foster professional relationships with families, communities and boards. Issues of staff recruitment, retention, support and supervision will lay a foundation for positive personnel management. Consent of instructor required. Restricted to ECED majors. **Corequisite(s):** ECED 280.

ECON-ECONOMICS (ECON)

ECON 201G. Introduction to Economics

3 Credits

Economic institutions and current issues with special emphasis on the American economy.

ECON 251G. Principles of Macroeconomics 3 Credits

Macroeconomic theory and public policy: national income concepts, unemployment, inflation, economic growth, and international payment problems.

ECON 251GH. Principles of Macroeconomics Honors 3 Credits

Macroeconomic theory and public policy designed: national income concepts, unemployment, inflation, economic growth, and international payment problems.

Prerequisite(s): Crimson Scholar; MATH 121G.

ECON 252G. Principles of Microeconomics 3 Credits

Microeconomic theory and public policy: supply and demand, theory of the firm, market allocation of resources, income distribution, competition and monopoly, governmental regulation of businesses and unions.

ECON 252GH. Principles of Microeconomics Honors 3 Credits

Microeconomic theory and public policy: supply and demand, theory of the firm, market allocation of resources, income distribution, competition and monopoly, governmental regulation of businesses and unions. **Prerequisite(s):** Crimson Scholar; MATH 121G.

EDUC-EDUCATION (EDUC)

EDUC 101. Freshman Orientation

1 Credit

Introduction to the university and to the College of Education. Discussion of planning for individualized education program and field experience. Restricted to Las Cruces campus only.

EDUC 102. Internship I

3 Credits

Supervised experience in elementary education settings.

EDUC 103. Introduction with Internship in Bilingual Education/ESL 3 Credits

An overview of the American Education system with emphasis on organization, governance, law, demographics, and professional practice. Will include supervised experience in bilingual education/ESL elementary settings for prospective bilingual education/ESL teachers.

EDUC 150. Math for Paraprofessionals

3 Credits

Applied math skills for paraprofessionals working with children. **Prerequisite:** CCDM 103.

EDUC 151. Math for Paraprofessionals II

3 Credits

Applied math skills for paraprofessionals working under the direction of a teacher.

Prerequisite: EDUC 150.

EDUC 181. Field Experience I

1 Credit

Introduction to public school teaching, school visits, classroom observations and discussion seminar.

EDUC 195. Individual Topics in Education 1-3 Credits

Supervised study in a specific area of interest. Each course shall be designated by a qualifying subtitle. May be repeated for a maximum of 9 credits.

EDUC 202. Internship II

3 Credits

Supervised experience in junior high settings. **Prerequisite:** must be a co-op student.

EDUC 204. Foundations of Bilingual/ESL Education 3 Credits

Explore and review the historical, legal, philosophical, theoretical and pedagogical paradigms of bilingual/ESL education.

EDUC 219. Pre-Teacher Preparation

3 Credits

Assists students in developing the necessary competencies needed for acceptance to the Teacher Education Program. Course content includes basic skill development, test taking skills, and completion of teacher preparation packet. Maybe repeated for a maximum of 6 credits. Graded S/U. Community Colleges only.

EDUC 250. Introduction to Education 2 Credits

An overview of the American education system with emphasis on organization, governance, law, demographics, and professional practice. Restricted to Las Cruces campus only.

EDUC 281. Introduction to Secondary Education and Youth 3 Credits

Introductory course for students considering a career in secondary education. Includes historical, philosophical, and sociological foundations, program organization, critical dispositions, and understanding the context of schools and youth. Practicum required. Restricted to: Secondary Ed majors. Traditional Grading with RR.

ELA - EDUC LEADERSHIP & ADMIN (ELA)

ELA 215. Multicultural Leadership in Education 3 Credits

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.

ELA 255. Leadership and Change in Education 3 Credits

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.

ELA 298. Special Topics in Education

1-3 Credits (1-3)

Special topics course in education for undergraduate students. Course will be identified by a subtitle. May be repeated up to 12 credits. Restricted to Las Cruces campus only.

ELT - ELECTRONICS TECHNOLOGY (ELT)

ELT 103. Math Study Skills for Electronics 1 Credit

Covers specific math study skills and critical thinking processes to reinforce practical applications of math and its use with electronics. The student will be introduced to electronic mathematical formulas during the problem-solving steps required for circuit analysis. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): E T 183 OR E T 184. Restricted to Community Colleges only.

ELT 105. Basic Electricity and Electronics 3 Credits (2+2P)

Fundamentals of electricity and electronics, basic circuit devices, meters, transistors, integrated circuits and other solid state devices, computers, fiber optics, and industrial application topics. Minimum math proficiency of CCDM 103 or CCDM 104 required or math placement into CCDM 114 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 111

ELT 110. Electronics I

4 Credits (3+3P)

Fundamentals of electronics including: components, schematics, Ohm's law, Thevenin's and Norton's theorems, and series/parallel circuits incorporating passive, active and magnetic elements. Introduction to AC circuits. Crosslisted with: AERT123. Restricted to: Community Colleges only.

ELT 120. Mathematics for Electronics 4 Credits

Includes fundamental mathematics, algebra, sine, cosine, and other elementary functions as they specifically apply to the operation, manipulation, and evaluation of direct current (DC) and alternating current (AC) circuits. Minimum math proficiency of CCDM 114 required or math placement into MATH 120 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 124

ELT 135. Electronics II 4 Credits (3+3P)

Analysis of AC circuits, filters, and resonance. Introduction to solid state fundamentals including diodes and rectifier circuits, voltage regulators, various transistors and transistor characteristics, amplification and amplifiers, photoelectric effects, gates and timing circuits. Restricted to Community Colleges campuses only.

Prerequisite(s): ELT 110 and ELT 120.

ELT 155. Electronics CAD and PCB Design 3 Credits (2+2P)

Introduction to and the use of commercially available CAD software covering schematic representation of electronic components and circuits. Printed circuit board layout techniques including proper schematic capture, netlist generation, design rule checking and manual routing covered.

ELT 160. Digital Electronics I 4 Credits (3+3P)

Number systems, codes, Boolean algebra, logic gates, Karnaugh maps, combination circuits, flip-flops, and digital troubleshooting techniques. Restricted to: Community Colleges only.

Prerequisite(s): ELT 110 and (ELT 120 or MATH 120).

ELT 175. Soldering Practices

3 Credits (2+2P)

Methods and techniques of hand soldering in the production of high quality and reliable soldering connections. Restricted to: Community Colleges only.

ELT 205. Semiconductor Devices

4 Credits (3+3P)

Analysis and trouble shooting of linear electronic circuits including amplifiers, op-amps, power supplies, and oscillators. Restricted to: Community Colleges only.

Prerequisite(s): ELT 110 and ELT 135.

ELT 215. Microprocessor Applications I

4 Credits (3+2P)

Fundamentals of microprocessor architecture and assembly language with an emphasis on hardware interfacing applications. **Prerequisite(s)/Corequisite(s):** ELT 235. Prerequisite(s): ELT 160. Restricted to: Community Colleges only.

ELT 220. Electronic Communication Systems 4 Credits (3+2P)

Principles and applications of circuits and devices used in the transmission, reception, and processing of RF, microwave, digital and telecommunications systems.

Prerequisite(s)/Corequisite(s): ELT 205. Prerequisite(s): ELT 135. Restricted to: Community Colleges only.

ELT 221. Cooperative Experience I

1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U. **Prerequisite:** consent of instructor.

ELT 222. Cooperative Experience II

1-6 Credits

Continuation of ELT 221. Maximum of 6 credits. Graded S/U. **Prerequisite:** consent of instructor.

ELT 225. Computer Applications for Technicians 3 Credits (2+2P)

An overview of computer hardware, software applications, operating systems, high level programming languages and networking systems.

ELT 230. Microprocessor Applications II

4 Credits (3+2P)

Advanced microprocessor interfacing techniques. Topics in A/D and D/ A conversion, I/O port address decoding, direct memory accessing, and peripheral device interfacing applications. **Prereguisite:** ELT 215.

ELT 235. Digital Electronics II

3 Credits (2+2P)

Sequential logic circuits, latches, counters, shift-registers, fault analysis and troubleshooting of digital IC s, multiplexers, timers, encoders/ decoders, arithmetic circuits, pulse shaping, and memory devices. Restricted to: Community Colleges only. **Prerequisite(s):** ELT 160.

ELT 240. Introduction to Photonics

4 Credits (3+2P)

Nature of light, light emitters, lasers, detectors, fiber optics communications systems, and other applications of light to electronics. **Prerequisite:** ELT 135 or consent of instructor.

ELT 250. Electronics Systems Analysis

2 Credits (1+3P)

Capstone course emphasizing a systems approach to troubleshooting and maintaining complex electronics systems. Includes program review in preparation for technician certification.

Prerequisite: consent of instructor.

ELT 260. Instrumentation Control and Signal Conditioning 4 Credits (3+2P)

Introduction to sensors and transducers, signal conditioning and transmission for measuring and process control systems. Includes AD, DA converter, small servos and actuators. Prerequisite:ELT 205.

ELT 265. Special Topics

1-6 Credits

Topic to be announced in the Schedule of Classes.

ELT 270. Biomedical Equipment Instrumentation

4 Credits (3+2P)

Principles and applications of electronic circuits and devices used in biomedical equipment. Skills taught to include evaluating, troubleshooting and repairing various types of medical equipment. **Prerequisite(s)/Corequisite(s):** ELT 260. Prerequisite(s): ELT 205. Restricted to: Community Colleges only.

ELT 295. Professional Development/Leadership 1 Credit

As members and/or officers of student professional organizations, electronics technology students gain experience in leadership, team building, and community services. May be repeated for a maximum of 6 credit. Restricted to ELT and ET E majors.

ELWK - ELECTRICAL LINEWORKER

ELWK 130. Introduction to Electrical Power Systems 2 Credits

An overview of electrical power systems, equipment, safety practices, first aid and CPR. May be repeated up to 2 credits. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Acceptance into the electrical lineworker program. **Corequisite(s):** OEET 110,0EET 131.

ELWK 131. Electrical Lineworker Lab I 6 Credits

Climbing and work on utility poles using ropes and rigging, pole setting and an introduction to transmission and distribution line construction. Maintenance and troubleshooting to include the use of hot sticks. May be repeated up to 6 credits. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Acceptance into the electrical lineworker program. **Corequisite(s):** OEET 110,0EET 130.

ELWK 140. Electrical Power Systems II

3 Credits (2+2P)

Theory of power generation and distribution with emphasis on three phase systems to include transformers, voltage regulators, surge arrestors. Includes troubleshooting. May be repeated up to 3 credits. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Acceptance into the electrical lineworker program and OEET 130.

Corequisite(s): OEET 141.

ELWK 141. Electrical Lineworker II 6 Credits

Practice in the installation of electrical power lines including transformers, voltage regulators, and surge arrestors. Also advanced hot sticking procedures, troubleshooting, underground systems procedures, and pole-top rescue. May be repeated up to 6 credits. Restricted to: OEET majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** Acceptance into the lineworker program and OEET 131. **Corequisite(s):** OEET 140.

ELWK 221. Cooperative Experience I 1-4 Credits (1-4)

Supervised cooperative work program. Student is employed in an approved occupation and is supervised and rated by the employer and instructor. Student will meet in a weekly class. May be repeated up to 4 credits. Consent of Instructor required. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. **Prerequisite(s):** Consent of Instructor.

ENGL-ENGLISH (ENGL)

ENGL 111 M. Rhetoric and Composition for International and Multilingual Students

4 Credits

For international and multilingual students. Students will build on your prior knowledge of writing in English as a second or additional language by engaging in several genres of writing and reading, including reading responses, discussion posts, formal academic papers (Rhetorical Analysis and Documented Argument), and peer review. Your instructor and classmates will serve as your readers and will give you helpful and constructive criticism, which will in turn assist you in becoming a more fluent and engaging communicator in English. Fulfills English 111 Gen-ed requirement. Restricted to Las Cruces campus only.

Prerequisite(s): CBT/PB score of 500, or IBT score of 61, or SPCD 110, or consent of instructor.

ENGL 111G. Rhetoric and Composition 4 Credits

Skills and methods used in writing university-level essays.

Prerequisite(s): ACT standard score in English of 16 or higher or a Compass score 76 or higher; for those scoring 13-15 in English on the ACT or 35-75 on the Compass, successful completion of a developmental writing course; for those scoring 12 or below on the ACT standard score in English or 34 or below on the Compass, successful completion of two developmental writing courses.

ENGL 111GH. Rhetoric and Composition Honors 4 Credits

Individualized assignments and independent study. Satisfies 4 credits of General Education English Composition requirement.

Prerequisite: ACT standard English score of 25 or higher and departmental approval.

ENGL 112. Rhetoric and Composition II 2 Credits

A continuation of English 111G for those desiring more work in composition. Weekly themes based on outside reading. **Prerequisite:** successful completion of ENGL 111G or the equivalent.

ENGL 115G. Perspectives on Literature 3 Credits

Examines literature by writers from culturally diverse backgrounds and from different cultural and historical contexts. Explores various strategies of critical reading.

ENGL 116G. Perspectives on Film

3 Credits (3+3P)

Explores narrative and documentary film and examines significant developments in the history of cinema. Criticism of film as an art form, technical enterprise, business venture, and cultural phenomenon.

ENGL 203G. Business and Professional Communication 3 Credits

Effective writing for courses and careers in business, law, government, and other professions. Strategies for researching and writing correspondence and reports, with an emphasis on understanding and responding to a variety of communication tasks with a strong purpose, clear organization, and vigorous professional style. May be repeated up to 3 credits.

Prerequisite(s): Grade of C- or better in ENGL 111G or SPCD 111G or ENGL 111 M.

ENGL 211G. Writing in the Humanities and Social Sciences 3 Credits

Theory and practice in interpreting texts from various disciplines in the humanities and social sciences. Strategies for researching, evaluating, constructing, and writing researched arguments. Course subtitled in the Schedule of Classes. May be repeated up to 3 credits.

Prerequisite(s): Grade of C- or better in ENGL 111G or ENGL 111 M.

ENGL 218G. Technical and Scientific Communication 3 Credits

Effective writing for courses and careers in sciences, engineering, and agriculture. Strategies for understanding and presenting technical information for various purposes to various audiences. May be repeated up to 3 credits.

Prerequisite(s): Grade of C- or better in ENGL 111G or ENGL 111M.

ENGL 220G. Introduction to Creative Writing 3 Credits

Examines classic and contemporary literature in three genres. Various forms, terminologies, methods and technical aspects of each genre, and the art and processes of creative writing. May be repeated up to 3 credits. **Prerequisite(s):** ENGL 111G or SPCD 111G or ENGL 111 M.

ENGL 232. Script Development and Storyboarding 3 Credits

Examines effective writing principles for creating storyboards that communicate the overall picture of a project, timing, scene complexity, emotion and resource requirements. Crosslisted with: CMI 232.

ENGL 235. Narrative: Principles of Story Across the Media 3 Credits

Examines the various strategies of written and visual storytelling, narrative structure and its principal components (plot, theme, character, imagery, symbolism, point of view) with an attempt to connect them to elements of contemporary forms of media expression, including screenwriting, playwriting, writing for documentaries and animation, etc. Crosslisted with: CMI 235

ENGL 243. The Bible as Literature

3 Credits

Develops informed readings of Hebrew and Christian scriptures. Emphasizes understanding Biblical literary forms, techniques, themes; historical, cultural contexts for interpretation; authorship, composition, audience for individual books; development of Biblical canon.

ENGL 244G. Literature and Culture 3 Credits

Intensive reading of and discussion and writing about selected masterpieces of world literature. Emphasizes cultural and historical contexts of readings to help students appreciate literary traditions. Core texts include works by Homer, Dante, and Shakespeare, a classic novel, an important non-Western work, and modern literature.

ENGL 251. Survey of American Literature I 3 Credits

From the colonial period to the transcendentalists.

ENGL 252. Survey of American Literature II 3 Credits

From Whitman to the present.

ENGL 263. History of Argument

3 Credits

Investigates the major figures and movements in rhetoric from the classical period to modern rhetorical theory, examining relations between rhetorical teaching and practice, culture, epistemology, and ideology. Main campus only.

Prerequisite(s): ENGL 111G.

ENGL 271. Survey of English Literature I 3 Credits

From Beowulf through the eighteenth century.

ENGL 272. Survey of English Literature II 3 Credits

From the pre-Romantics to the present.

ENGL 299. Special Topics

1-3 Credits

Emphasis on a literary and/or writing subject chosen for the semester. Repeatable for a unlimited credit under different subtitles.

ENGR-ENGINEERING (ENGR)

ENGR 100. Introduction to Engineering

3 Credits (2+3P)

An introduction to the various engineering disciplines, the engineering approach to problem solving, and the design process. Projects emphasize the importance of teamwork, written & oral communication skills, as well as ethical responsibilities.

Prerequisite(s)/Corequisite(s): MATH 121G.

ENGR 100H. Introduction to Engineering 3 Credits (2+3P)

An introduction to the various engineering disciplines, the engineering approach to problem solving, and the design process. Projects emphasize the importance of teamwork, written & oral communication skills, as well as ethical responsibilities. Pre/

Corequisite(s): MATH 190G.

ENGR 111. Mathematics for Engineering Applications 3 Credits

An introduction to engineering mathematics and basic programming skills needed to perform elementary data manipulation and analysis. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): MATH 190G. Prerequisite(s): MATH 121G.

ENGR 198. Special Topics in Engineering

1-3 Credits

Directed individual study of topics in engineering. Written reports covering work required. May be repeated for a maximum of 6 credits. Restricted to engineering majors. Graded S/U. **Prerequisite:** consent of academic dean.

EPWS-ETMLGY/PLNT PTHLGY/WD SCI (EPWS)

EPWS 100. Applied Biology

3 Credits

Introduction to applied biology and ecology focusing on insects, plants and pathogens in natural areas, crops and urban settings. EPWS 100L is strongly recommended to take in the same semester. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

EPWS 100 L. Applied Biology Lab 1 Credit

Study of applied biology and ecology of insects, plants and pathogens in natural areas, crops, and urban settings. EPWS 100 strongly recommended to take in the same semester. May be repeated up to 1 credits. Restricted to Las Cruces campus only.

EPWS 200. Special Topics

1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

FCS-FAMILY AND CHILD SCIENCE (FCS)

FCS 181. Interpersonal Skills in Intimate Relationships 3 Credits

Developing social skills within friendships, dating relationships, marriage, parenting, and families. May be repeated up to 3 credits. Restricted to Las Cruces and Dona Ana campuses.

FCS 210. Infancy and Early Childhood in the Family 3 Credits

Research and theory relevant to prenatal development and the physical, mental, and socio-emotional development of the child from birth to age five. Attitudes, knowledge, and skills needed for working with young children and their families. Restricted to Las Cruces campus only.

FCS 211. Middle Childhood Development in the Family 3 Credits

Research and theory relevant to the physical, mental, social, and emotional development of the child from age five to age twelve. Attitudes, knowledge, and skills related to working with school-age children in the family system. Observation in a variety of settings may be required. Restricted to Las Cruces campus only.

FCS 212. Adolescent Development and the Family 3 Credits

Research and theory relevant to the physical, mental, social, and emotional development of the children ages 12 to 18. Attitudes, knowledge, and skills related to working with adolescents in the family system. Observation in a variety of settings may be required. Restricted to Las Cruces campus only.

FCS 213. Adult Development and Aging 3 Credits

Research and theory related to the physical, mental, social, and emotional development of older adults. Attitudes, knowledge, and skills related to working with older adults in the family system, including normative, and nonnormative transitions. Restricted to Las Cruces campus only.

FCSE-FAMILY & CONSUMER SCI EDU (FCSE)

FCSE 235. Housing and Interior Design 3 Credits

Investigation of types of housing and factors impacting housing decisions for families. Selection, planning, and arrangement of interior components of homes to meet the needs of the family. Restricted to Las Cruces campus only.

Prerequisite(s): No prerequisites.

FCSE 245. Overview of Family and Consumer Sciences Teaching 3 Credits

Overview of planning and teaching skills. Supervised experiences in observing and directing the learning of secondary family and consumer sciences students. Philosophy and history of the profession.

FIN-FINANCE (FIN)

FIN 206. Introduction to Finance

3 Credits

Theory and techniques of financial management for business firms. Includes application of financial analysis tools and techniques needed for business financial administration and decision making. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 106 or higher; BOT 120 or ACCT 221; ECON 201 or ECON 251.

FIN 210. Financial Planning and Investments 3 Credits

Individual financial planning and related financial markets and institutions. Community Colleges only.

FIRE-FIRE INVESTIGATION (FIRE)

FIRE 101. Firefighter I

8 Credits (6+6P)

This course will train the student to the Firefighter I level as outlined in NFPA 1001, Standard for Firefighter Professional Qualifications. Firefighter I certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 8 credits. Consent of Instructor required. **Prerequisite(s)/Corequisite(s):** OEEM 103 and FIRE 115. Restricted to Community Colleges campuses only.

FIRE 102. Fire Fighter I and II

12 Credits

This course will train the student as outlined in NFPA 1001, Fire Fighter Professional Qualifications. Firefighter I & II Certification issued through the New Mexico Firefighter's Training Academy (NMFTA) upon successful completion [International Fire Service Accreditation Congress (IFSAC) & Pro Board accredited]. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): FIRE 115, FIRE 252, OEEM 103. Restricted to Dona Ana campus only.

FIRE 104. Firefighter II

8 Credits (6+6P)

This course will train the student to the Firefighter II level as outlined in NFPA 1001, Standard for Firefighter Professional Qualifications. Firefighter II certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 8 credits. Consent of Instructor required. **Prerequisite(s)/Corequisite(s):** FIRE 252. Prerequisite(s): FIRE 101. Restricted to Community Colleges campuses only.

FIRE 112. Principles of Emergency Services 3 Credits

This course provides an overview to fire protection and emergency services including career opportunities in fire protection and related fields. The organization and function of public and private fire protection services is studied including how fire departments fit as part of local government. An overview of laws and regulations affecting the fire service is explored along with specific fire protection functions and responsibilities including basic fire chemistry and physics, introduction to fire strategy and tactics and life safety initiatives. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

FIRE 114. Fire Behavior and Combustion 3 Credits

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. Restricted to: Community colleges only.

FIRE 115. Hazardous Materials Awareness and Operations 3 Credits

This course will train the student to the Hazardous Materials Awareness and Operations level as outlined in NFPA 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents and OSHA 29 CFR 1910.120. Hazardous Materials Awareness and Operations certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

FIRE 120. Fire Protection Hydraulics and Water Supply 3 Credits

This course will train students on 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. May be repeated up to 3 credits. **Prerequisite(s)/Corequisite(s):** FIRE 128. Restricted to Community Colleges campuses only.

FIRE 126. Fire Prevention 3 Credits

This course will educate students about the principles and techniques of fire prevention and life-safety inspection and code compliance in accordance to NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner, Level I. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the New Mexico Firefighters' Training Academy (NMFTA). Restricted to Community Colleges campuses only.

FIRE 128. Apparatus and Equipment

2 Credits

This course is a pre/co-requisite to FIRE 120. The course will train students on attitude and skill requirements for becoming a safe and effective fire apparatus driver/operator. The focus will be on apparatus inspection, operation, maintenance, and specification. Responsibilities of the driver/operator will be taught and assessed consistent with applicable NFPA standards and the New Mexico Firefighters' Training Academy (NMFTA) guidelines. Students pursuing certification must posses a current and valid New Mexico driver's license. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the NMFTA. Restricted to Community Colleges campuses only.

FIRE 130. Principles of Fire and Emergency Services Safety and Survival 3 Credits

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. Consent of instructor required. Restricted to: Community colleges only.

FIRE 200. Special Topics

1-12 Credits (1-12)

Specific subjects to be announced in the Schedule of Classes. Course may be repeated for credit as topics change. May be repeated up to 12 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

FIRE 201. Independent Study

1-3 Credits

Research on an approved topic to meet graduation requirements. Meets or exceeds NFPA standards. May be repeated for total of 9 credits. **Prerequisite:** consent of instructor.

FIRE 202. Wildland Fire Control

1-3 Credits

Focuses on factors affecting wildland fire control and prevention, fire behavior, control techniques, command structure and other operations including Standards for Survival I-100, S-130 and S-190 Meets or exceeds NWCG Training Curriculum and NFPA 1051 standards. Restricted to: Community Colleges Only.

FIRE 203. Fire and Emergency Services Administration 3 Credits

This course will provide students entry-level training in company operations and administration at the first-line supervisory level. The student will learn how to effectively manage human resources and community/public relations. Students will learn about fire department organization and administration; including budgets, reports, and planning. Students will learn the process involved in fire inspection, investigation, public education, emergency service delivery, and safety, per NFPA Standard 1021, Fire Officer Professional Qualifications. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

FIRE 210. Building Construction for Fire Protection 3 Credits

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. Restricted to: Community colleges only.

FIRE 220. Cooperative Experience I 1-3 Credits

Supervised cooperative work program. Student is employed in an approved occupation and rated by the employer and instructor. May be repeated for a maximum of 6 credits. Graded S/U. **Prerequisite:** consent of instructor.

FIRE 221. Cooperative Experience II 3 Credits

Apply advanced firefighting knowledge and skills while working with fire protection agencies. Meets or exceeds NFPA standards. Consent of instructor required. Graded: S/U. Restricted to: Community Colleges only. **Prerequisite(s):** FIRE 220.

FIRE 223. Fire Investigations I

3 Credits

This course meets the requirements set forth in NFPA 1033 Professional Qualifications for Fire Investigator. This course will give a comprehensive understanding of the principles of fire investigation, scene examination, documentation, evidence collection/preservation, interview techniques, and post-incident investigations. Student who meet all course requirements are eligible for International Fire Service Accreditation Congress (IFSAC) certification through New Mexico Firefighters' Training Academy (NMFTA). Restricted to Community Colleges campuses only.

FIRE 224. Strategy and Tactics 3 Credits

Provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment and extinguishing agents on the fire ground. Covers the development of systematic action plans for emergency situations. Includes recognizing and prioritizing emergency scene needs and developing related strategies, tactics and contingencies. Educates students on how resources should be deployed to implement those plans. Restricted to Community Colleges campuses only.

FIRE 225. Fire Protection Systems 3 Credits

This course provides information relating to the features and design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. Restricted to: Community colleges only.

FIRE 226. Fire Investigations II 3 Credits

This course is intended to provide the student with advanced technical knowledge on the rule of law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation and court-room testimony. Restricted to: Community colleges only.

FIRE 230. Fire Service Instructor

3 Credits

Provides the instructor candidate with methods and techniques of instruction including oral communications, preparing lesson plans, writing performance objectives, use of audio and other training aids, and the selection, evaluation and preparation of performance tests. Meets and exceeds NFPA 1041 Level I standards. Restricted to: Community Colleges only.

FIRE 232. Firefighter Internship 3 Credits

Application of knowledge, skills and abilities in a fire service department, as a firefighter intern and integrated member of a fire affiliated agency. Restricted to majors.

Prerequisites: FIRE 101, FIRE 102, FIRE 115, FIRE 202 and EMT-B and consent of instructor.

FIRE 233. Practical Approach to Terrorism 3 Credits

Gives responder an overall safety approach in recognizing and responding to incidents involving terrorism. Presents an overview in types of harm, explosive weapons, chemical weapons, biological weapons and radiological weapons. Restricted to: Community Colleges only. Crosslisted with: LAWE 233

FIRE 252. Vehicle Extrication

2 Credits (1+2P)

This course will train the student to the Vehicle & Machinery Extrication level I as outlined in NFPA 1006, Standard for Technical Rescuer Professional Qualifications. Vehicle & Machinery Extrication certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

FREN-FRENCH (FREN)

FREN 111. Elementary French I

4 Credits

French language for beginners.

FREN 112. Elementary French II

4 Credits French language for beginners. Prerequisite: C or better in FREN 111.

FREN 211. Intermediate French I

3 Credits

Speaking, reading and writing. May be repeated up to 3 credits. **Prerequisite(s):** C or better in FREN 112 or consent of instructor.

FREN 212. Intermediate French II

3 Credits

Speaking, reading and writing. May be repeated up to 3 credits. **Prerequisite(s):** C or better in FREN 211 or consent of instructor.

FSTE-FOOD SCIENCE & TECHNOLOGY (FSTE)

FSTE 164G. Introduction to Food Science and Technology 4 Credits (3+2P)

An introductory course in the scientific study of the nature and composition of foods and their behavior during all aspects of their conversion from raw materials to consumer food products.

FSTE 175. ACES in the Hole Foods I

4 Credits

Food production activities related to operation of ACES in the Hole Foods, a student-run food company that will give FSTE majors hands-on experience in all aspects of developing, producing and marketing food products Restricted to Las Cruces campus only.

Prerequisite(s): Students enrolled in this class must possess A Food Handler Card.

FSTE 200. Special Topics

1-4 Credits

Specific topics and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

FSTE 210G. Survey of Food and Agricultural Issues 3 Credits

Same as AG E 210G.

FSTE 263G. Food Science I 4 Credits (3+2P)

The scientific study of the principles involved in the preparation and evaluation of foods. May be repeated up to 4 credits.

FSTE 275. ACES in the Hole Foods II 4 Credits

Food production activities related to operation of ACES in the Hole Foods, a student-run food company that will give FSTE majors hands-on experience in all aspects of developing, producing and marketing food products. May be repeated up to 4 credits.

Prerequisite(s): FSTE 175 and Have a Food Handler Card.

FWCE-FISH,WILDLF,CONSERV ECOL (FWCE)

FWCE 109. Contemporary Issues in Wildlife and Natural Resources Management

3 Credits

Ecological, socioeconomic, and political issues surrounding the management of our natural resources with an emphasis on fish and wildlife resources.

FWCE 110G. Introduction to Natural Resources Management 4 Credits (3+2P)

This class covers historical and current issues affecting the management of renewable natural resources with an emphasis on water, soil, rangeland, forest, fish, and wildlife resources. An emphasis is placed on the scientific method and critical thinking. In the laboratory students collect and analyze field data on topics covered above and write up each unit as a laboratory report.

FWCE 255. Principles of Fish and Wildlife Management 3 Credits

Basic principles of fish and wildlife management including history, ecology, economics, and policy. Emphasis on wildlife and fisheries. Uses an ecosystem approach integrating living and nonliving resources. **Prerequisite(s):** FWCE 110.

GENE-GENETICS (GENE)

GENE 110. Experimental Systems in Genetics

1 Credit

Survey of molecular, biochemical, organismal, and computer science based approaches to investigate how genes determine important traits. Historical development and topics of current interest will be discussed.

GEOG-GEOGRAPHY (GEOG)

GEOG 111G. Geography of the Natural Environment 4 Credits (3+3P)

Introduction to the physical processes that shape the human environment: climate and weather, vegetation dynamics and distribution, soil development and classification, and geomorphic processes and landform development.

GEOG 112G. World Regional Geography 3 Credits

Overview of the physical geography, natural resources, cultural landscapes, and current problems of the world's major regions. Students will also examine current events at a variety of geographic scales.

GEOG 120G. Culture and Environment 3 Credits

Study of human-environmental relationships: how the earth works and how cultures impact or conserve nature. Introduction to relationships between people and natural resources, ecosystems, global climate change, pollution, and conservation.

GEOG 257. Introduction to Weather Science 4 Credits (3+3P)

Introduction to Earth's atmosphere and the dynamic world of weather as it happens. Working with current meteorological data delivered via the Internet and coordinated with learning investigations keyed to the current weather; and via study of select archives. Crosslisted with: SOIL 257 and AGRO 257

Prerequisite(s): None.

GEOG 259. Introduction to Oceanography 4 Credits (3+3P)

Introduces the origin and development of the ocean and marine ecological concepts. Examines physical processes such as waves, tides, and currents and their impact on shorelines, the ocean floor, and basins. Investigates physical processes as they relate to oceanographic concepts. Includes media via the Internet and laboratory examination of current oceanic data as an alternative to the actual oceanic experience. Students will gain a basic knowledge and appreciation of the ocean's impact on the world's ecology. Branch campuses only. Consent of Instructor required.

GEOG 281. Map Use: Reading, Analysis and Interpretation 3 Credits (2+3P)

Exploration of the cartographic medium. Development of critical map analysis and interpretation skills, and map literacy. Comprised of traditional lecture, labs, and map use projects.

GEOG 291. Special Topics

1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

GEOG 295. Introduction to Climate Science

4 Credits (3+3P)

Examines fundamentals and related issues of Earth's climate system, climate variability, and climate change. Develops solid understandings of Earth's climate system framed in the dynamic, Earth system based approach to the science. Branch Campuses only. May be repeated up to 4 credits.

GEOL-GEOLOGY (GEOL)

GEOL 111G. Introductory Geology

4 Credits (3+3P)

Covers the fundamental principles of physical geology, including the origin of minerals and rocks, geologic time, rock deformation, and plate tectonics. May be repeated up to 4 credits.

GEOL 212G. The Dynamic Earth

4 Credits (3+3P)

Introduction to earth systems. Geology and the solid earth, geologic time and earth history, water and the world oceans, atmosphere and weather, the solar system. Community Colleges only.

GEOL 220. Special Topics 1-3 Credits

Specific subjects to be announced in the Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits. May be repeated up to 12 credits.

GER-GERMAN (GER)

GER 111. Elementary German I

4 Credits

German for beginners. Stress on speaking skills.

GER 112. Elementary German II

4 Credits

German for beginners and students with one year of high school German. Stress on speaking skills.

Prerequisite: C or better in GER 111.

GER 211. Intermediate German I

3 Credits Speaking, reading and writing. **Prerequisite:** C or better in GER 112.

GER 212. Intermediate German II

3 Credits Speaking, reading and writing. **Prerequisite:** C or better in GER 211.

GOVT-GOVERNMENT (GOVT)

GOVT 100G. American National Government 3 Credits

Class critically explores political institutions and processes including: the U.S. constitutional system; legislative, executive and judicial processes; political parties, elections, media, policy making, civic participation, popular and group influence

GOVT 101. Introductory Government Seminar

1 Credit

Introduction to the government major. Designed to assist students in planning college experience and preparing for professional or advanced educational opportunities upon graduation. Graded: S/U. Restricted to: Main campus only.

GOVT 110G. Introduction to Political Science 3 Credits

This class covers fundamental concepts such as justice, sovereignty and power; political theories and ideologies; and government systems that range from democratic to authoritarian.

GOVT 150G. American Political Issues

3 Credits

Major contemporary problems of American society and their political implications.

GOVT 160G. International Political Issues

3 Credits

Current developments and issues in world politics.

GOVT 201. Special Topics

3 Credits

Specific topics to be announced in Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits.

HIST-HISTORY (HIST)

HIST 101G. Roots of Modern Europe

3 Credits

Economic, social, political, and cultural development from earliest times to about 1700.

HIST 102G. Modern Europe

3 Credits

Economic, social, political, and cultural development from 1700 to the present.

HIST 110G. Making History

3 Credits

General introduction to history: how historians carry out research and develop interpretations about the past.

HIST 111G. Global History to 1500

3 Credits

Global economic, social, political and cultural developments to 1500. Thematic approach.

HIST 112G. Global History Since 1500

3 Credits

Global economic, social, political and cultural developments since 1500. Thematic approach.

HIST 201G. Introduction to Early American History 3 Credits

History of the United States to 1877, with varying emphasis on social, political, economic, diplomatic, and cultural development.

HIST 202G. Introduction to Recent American History 3 Credits

History of the United States since 1877, with varying emphasis on social, political, economic, diplomatic, and cultural development.

HIST 211G. East Asia to 1600

3 Credits

History of China, Korea, Vietnam, and Japan from earliest times through the sixteenth century. Emphasis on cultural and political developments and their social and economic contexts, and the interaction between East Asian societies.

HIST 212G. East Asia since 1600 3 Credits

History of China, Korea, Vietnam, and Japan from the sixteenth through the twentieth centuries. Emphasis on internal development of each country, as well as the social and political impact of Western Imperialism, and the emergence of each country's unique version of modern society.

HIST 221G. Islamic Civilizations to 1800 3 Credits

History of Islamic civilizations to 1800.

HIST 222G. Islamic Civilizations since 1800 3 Credits

History of Islamic civilizations since 1800.

HIST 261. New Mexico History

3 Credits

Economic, political, and social development of New Mexico from exploration to modern times. Community Colleges only.

HIST 269. Special Topics

1-3 Credits

Specific subjects to be announced in the Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits.

HIT-HEALTH INFO TECHNOLOGY (HIT)

HIT 110. Electronic Health Records

3 Credits

Current electronic health record principles, methods and procedures, and computerized medical record concepts and software applications will be introduced. Restricted to: Community Colleges only. **Prerequisite(s):** C S 110 or OECS 105.

HIT 120. Health Information Introduction to Pharmacology 3 Credits

Introduction to the principles of pharmacology, including drug terminology; drug origins, forms, and actions; routes of administration; as well as the use of generic name drugs, trade name drugs and categories of drugs to treat multiple and specific body systems. May be repeated up to 3 credits. Crosslisted with: NURS 120. Restricted to Community Colleges campuses only.

HIT 130. Health Information Technology Anatomy & Physiology 3 Credits

An introductory course in the basics of human structure and function. Body systems are examined as to how they relate to proper code selection and as part of the functioning of the body as a whole. Restricted to Community Colleges campuses only.

HIT 140. Health Information Introduction to Pathophysiology 3 Credits

Introduction to the nature of disease and its effect on body systems. Disease processes affecting the human body via an integrated approach to specific disease entities will be presented including a review of normal functions of the appropriate body systems. Diseases will be studied in relation to their etiology, pathology, physical signs and symptoms, diagnostic procedures, complications, treatment modalities and prognosis.

HIT 150. Introduction to Medical Terminology 3 Credits

The study and understanding of medical terminology as it relates to diseases, their causes and effects, and the terminology used in various medical specialties. Emphasis will be placed on learning the basic elements of medical words, appropriate spelling and use of medical terms, and use of medical abbreviations. May be repeated up to 3 credits. Crosslisted with: NURS 150, AHS 120 and BOT 150. Restricted to Community Colleges campuses only.

HIT 158. Advanced Medical Terminology 3 Credits

Builds upon the concepts covered in HIT 150 or AHS 120 providing greater understanding of how to properly use and apply medical terminology used in the various health fields. Medical terminology associated with the body system's anatomy and physiology, pathology, diagnostic and therapeutic procedures, pharmacology, and abbreviations will be emphasized. Restricted to Community Colleges campuses only. **Prerequisite(s):** HIT 150 or AHS 120.

HIT 221. Internship I

1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: HIT & BOT majors. S/U Grading (S/U, Audit). Restricted to Dona Ana campus only.

HIT 228. Medical Insurance Billing

3 Credits

Comprehensive overview of the insurance specialist's roll and responsibilities. Concepts and applications that will assist the student in understanding the steps necessary for successfully completing the insurance claim filing and reimbursement processes for various insurance carriers, both private and government, will be emphasized. Restricted to Carlsbad campus only.

Prerequisite(s): HIT/NURS 150; BOT 208.

HIT 240. Health Information Quality Management 3 Credits

Introduction to basic concepts of quality improvement and performance improvement as they apply to health record systems and the health care industry. Quality assessment and improvement standards and requirements of licensing, accrediting fiscal and other regulatory agencies will be presented.

HIT 248. Medical Coding I 3 Credits (2+2P)

Comprehensive overview of the fundamentals, coding conventions, and principles of selecting the most appropriate ICD-10-CM/PCS diagnostic and procedure codes. The most recent version of ICD-10-CM/PCS and an in depth study of current Official Coding Guidelines for coding and reporting will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** BOT 228.

HIT 255. Special Topics

3 Credits

Specific topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

HIT 258. Medical Coding II

3 Credits (2+2P)

Continuation of Medical Coding I. Comprehensive overview of the coding and reporting guidelines, fundamentals, coding conventions, and principles of selecting the most appropriate CPT and HCPCS procedural codes for all medical specialties. The most recent version of CPT and a continued study of the ICD-10-CM/PCS coding conventions and principles will be emphasized. Designed as a medical coding capstone course. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 248.

HIT 268. Health Information Systems 3 Credits

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.

HNDS-HUMAN NUTRITION & DIET (HNDS)

HNDS 201. Seminar 1- The Field of Dietetics

1 Credit

This course will introduce students to the field experience, careers, and professions in nutrition. This course is required for students pursuing a Didactic Program in Dietetics verification statement. May be repeated up to 1 credits. Consent of Instructor required. Restricted to: HNDS majors. Restricted to Las Cruces and Dona Ana campuses.

HNDS 251. Human Nutrition 3 Credits

Principles of normal nutrition. Relation of nutrition to health. Course contains greater amounts of chemistry and biology than HNDS 163. Open to nonmajors.

HON-HONORS (HON)

HON 115. Journeys of Discovery

1 Credit

Weekly conversations among students and a faculty member; organized around a particular subject and a small selection of readings. The seminars illuminate the many paths of discovery explored by the New Mexico State University faculty.

Prerequisite(s): Honors eligible.

HON 208G. Music in Time and Space 3 Credits

Survey of music as it interacts with art, mathematics, science (acoustics), and ideas from exotic cultures through the history of Western civilization.

HON 210. The Present in the Past: Contemporary Issues and their Historical Roots

1-3 Credits (1-3)

This course will take today's concerns, trends, and customs and contextualize them in the past, explaining their historical origins and development. As an example, we will examine the history of celebrity and how celebrities -- from Lord Byron to the Kardashians – made an impact on their contemporaries and the broader society of their time. This reading- and writing-intensive course will help students develop skills related to critical thinking, logical argumentation, and written and oral communication.

HON 211. Democracies, Despots and Daily Life 1-3 Credits (1-3)

This course will offer students the chance to read firsthand accounts of ordinary citizens' lives under different political systems, from the earliest age to the present day. This reading- and writing-intensive course will help students develop skills related to critical thinking, logical argumentation, and written and oral communication.

HON 214. Successful Fellowship Writing

1 Credit

Same as HON 314, for freshmen and sophomores.

HON 216G. Encounters with Art 3 Credits

A multicultural examination of the principles and philosophies of the visual arts and the ideas expressed through them.

HON 218. Women Across Cultures

3 Credits

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. Restricted to: Main campus only. Crosslisted with: W S 202G

HON 219G. Earth, Time, and Life 4 Credits (3+3P)

Covers how the earth's materials form, processes involved in changing the earth's configuration, and extent of people's dependence upon the earth's resources. Includes mineral and energy resources, development of landscapes, environmental problems, evolution of the earth and life forms. May be taken in place of GEOL 111G.

HON 220G. The World of the Renaissance: Discovering the Modern 3 Credits

An introduction to the literature and thought of Renaissance Europe. Humanism and the Reformation will be approached through the intensive study of major writers such as Petrarch, Machiavelli, Luther, Erasmus, Montaigne, and Shakespeare. Restricted to Las Cruces campus only.

HON 221. Special Topics

1-3 Credits (1-3)

Special course offerings, with unique titles listed in Schedule of Classes. May be repeated up to 6 credits.

HON 222G. Foundations of Western Culture

3 Credits

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.

HON 227G. Plato and the Discovery of Philosophy 3 Credits

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.

HON 228G. Religion and the State 3 Credits

Moral and political questions that arise in connection with churchstate relations, including religious toleration, separation of church and state, the individual's moral duty to ignore religious convictions when performing functions of democratic citizenship, and the extent to which these ideas are embodied in our nation s traditions.

HON 229G. The New Testament as Literature 3 Credits

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.

HON 230G. Bamboo and Silk: The Fabric of Chinese Literature 3 Credits

Introductory survey of traditional and modern Chinese prose and poetry in translation with emphasis on genre, theme, and social/historical context.

HON 232G. The Human Mind

3 Credits

Examination of the current understanding of the intricate relationship between mind and matter, with particular emphasis on the functional organization of the human brain. Evolutionary origins of this functional design and its implications for understanding human emotional and cognitive processes.

HON 234G. The Worlds of Arthur 3 Credits

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.

HON 235G. Window on Humanity 3 Credits

Anthropology is the most humanistic of the sciences, and the most scientific of the humanities. This course will use anthropological perspectives to examine the human experience from our earliest origins, through the experiences of contemporary societies. We will gain insights into the influence of both culture and biology on shaping our shared human universals, and on the many ways in which human groups are diverse. Restricted to Las Cruces campus only.

HON 237G. Archaeology: Search for the Past 3 Credits

A critical evaluation of various approaches to understanding prehistory and history. The methods and theories of legitimate archaeology are contrasted with fantastic claims that invoke extraterrestrials, global catastrophes, transoceanic voyages, and extra-sensory perception. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

HON 239G. Medieval Understandings: Literature and Culture in the Middle Ages

3 Credits

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.

HON 242G. Claiming an American Past 3 Credits

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.

HON 248G. The Citizen and the State: Great Political Issues 3 Credits

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.

HON 249G. American Politics in a Changing World 3 Credits

American politics and policies examined from a historical and global perspective. Philosophical underpinnings of American national government, the structure of government based on that philosophy, and the practical implications of both the philosophical and structural base. How American government influences and is influenced by the world community.

HON 265G. Principles of Human Communication Honors 3 Credits

Study and practice of interpersonal, small group, and presentational skills essential to effective social, business, and professional interaction.

HON 270G. Theatre: Beginnings to Broadway 3 Credits

Intercultural and historical overview of live theatre production and performance, including history, literature and professionals. Students attend and report on stage productions.

HORT-HORTICULTURE (HORT)

HORT 100G. Introductory Plant Science

4 Credits (3+2P)

Introduction to the physical, biological, and chemical principles underlying plant growth and development in managed ecosystems. In the laboratory portion of the class, students perform experiments demonstrating the principles covered in lecture. The course uses economic plants and agriculturally relevant ecosystems to demonstrate basic principles. Appropriate for nonscience majors. Same as AGRO 100G.

HORT 200. Special Topics

1-4 Credits

Specific subjects and credits as announced. Maximum of 4 credits per semester and a grand total of 9 credits. May be repeated up to 9 credits. Consent of Instructor required.

HORT 205. Introduction to Horticulture 3 Credits

Principles and practices of horticulture. Basic chemical, physical, and biological principles that govern plant growth in different environments. Economics of plant science as related to the field of horticulture. Online course entirely. Intended for non-majors.

HORT 210. Ornamental Plants I

4 Credits (3+2P)

Covers identification, botanical characteristics, culture, and landscape uses of woody plants. Emphasis on deciduous trees, native shrubs, and evergreens.

HORT 211. Ornamental Plants II 4 Credits (3+2P)

Identification, botanical characteristics, culture, and landscape uses of woody plants. Emphasis on flowering trees, cacti, and members of the pea and rose families.

HORT 240. Floral Quality Evaluation and Design

2 Credits (1+2P)

Critical hands-on evaluation of the quality of cut and potted floral and tropical foliage crops, their specific merits and faults, and fundamentals of floral design.

HORT 241. Floriculture Field Practicum

1 Credit

Participation as team member in the National Intercollegiate Floral Quality Evaluation and Design Competition. Intensive week-long travel for competition, networking with industry, academia, and floriculture tours. May be repeated for a maximum of 3 credits.

Prerequisite(s): HORT 240 or consent of instructor.

HORT 250. Plant Propagation

3 Credits (2+2P)

Practical methods of propagating horticultural plants by seed, cuttings, layering, grafting, division and tissue culture. Examination of relevant physiological processes involved with successful plant propagation techniques. Same as AGRO 250.

HOST-HOSPITALITY AND TOURISM (HOST)

HOST 155. Special Topics

1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

HOST 201. Introduction to Hospitality Industry 3 Credits

Overview of hospitality industry; organization and operation of lodging, food and beverage, and travel and tourism segments; focus on career opportunities and future trends of hospitality industry. Restricted to: Community College campuses only.

HOST 202. Front Office Operations 3 Credits

Hotel/motel front office procedures detailing flow of business, beginning with reservations and extending to the night audit process. Restricted to: Community College campuses only.

HOST 203. Hospitality Operations Cost Control 3 Credits

Management of Food & Beverage facilities using cost control techniques. Functional training in menu analysis and development with all phases of product flow through a Food & Beverage organization explored. Restricted to: Community Colleges only.

HOST 204. Promotion of Hospitality Services 3 Credits

Organization of hotel marketing functions; developing a marketing plan to sell the varied services of the hotel/motel property. Restricted to: Community College campuses only.

HOST 205. Housekeeping, Maintenance, and Security 3 Credits

Function of housekeeping departments, including personnel, sanitation, maintenance, and materials. A survey of security procedures to include guest protection and internal security of hotel/motel assets. Restricted to: Community College campuses only.

HOST 206. Travel and Tourism Operations 3 Credits

Transportation, wholesale and retail operations, attractions, the traveler, tourism development, and operational characteristics of tourism business. Restricted to: Community College campuses only.

HOST 207. Customer Service for the Hospitality Industry 3 Credits

Concepts of service and the customer, integrating the need for service quality, and the continuing efforts to maximize returns for the operation. Classic service styles as well as more modern service techniques are covered. Students gain in-depth managerial knowledge, planning skills, and hands-on techniques for consistently delivering quality and service in a variety of operations. Restricted to: Community College campuses only.

HOST 208. Hospitality Supervision 3 Credits

Strategies for directing, leading, managing change and resolving conflict. Prepares students to meet expectations of management, guests, employees, and governmental agencies. Restricted to: Community College campuses only.

HOST 209. Managerial Accounting for Hospitality 3 Credits

Prepares students to make effective business decisions based on financial report information; forecasting, budgeting, cost analysis. Restricted to: Community College campuses only. **Prerequisite(s):** BOT 120 or ACCT 252.

HOST 210. Catering and Banquet Operations 3 Credits

Teaches the basics of catering and banquet operations, including computer coordination, planning, set up, service, and completion. Restricted to Community Colleges campuses only.

HOST 214. Purchasing and Kitchen Management 3 Credits

Technical purchasing concepts, product selection, and specifications. Safety and sanitation as they relate to food service establishments. Prepares student for work with HACCP programs. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** HOST 203.

HOST 216. Event, Conference and Convention Operations 3 Credits

The ability to successfully plan, organize, arrange, and execute special events is critical to the success of many hospitality organizations. This course gives the student a grounding in the skills necessary to achieve success in this area. A variety of events are discussed and the similarities and differences with conferences and conventions are explored. Students are taught to organize and plan events of varying type and durations. Sales, logistics, and organizing skills are emphasized. Restricted to: Community College campuses only.

HOST 219. Safety, Security and Sanitation in Hospitality Operations 3 Credits

It is the responsibility of the manager to provide appropriate security, sanitation, and safety precautions in hospitality operations. Preparation for internal and external disasters is an important task for the Hospitality Manager. This course uses the National Restaurant Association ServSafe¬ training material. Restricted to: Community College campuses only.

HOST 220. Experiential Travel

1-3 Credits (1-3)

Course provides an opportunity for students to plan, prepare for and experience travel to destinations they might not otherwise have visited. Students experience local culture and peoples. May be repeated up to 9 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** HOST 201 or consent of instructor.

HOST 221. Internship I

1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEHS,HOST majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

HOST 222. Cooperative Experience II 3 Credits

Continuation of HOST 221. Restricted to majors. Graded: S/U. Restricted to: Community College campuses only. Restricted to HOST majors. **Prerequisite(s):** HOST 221.

HOST 223. Travel Agency Principles

3 Credits

Travel agents are called upon to exhibit broad knowledge about many different tourism products. This course prepares students to undertake the challenging job of an agent in a travel agency. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

HOST 224. Travel Agency Booking & Operations 3 Credits

Course trains students to use the common electronic booking software that is found in travel agencies. Familiarization with operational procedures of travel agencies. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** HOST 223.

HOST 230. Wedding Events Management 3 Credits

This course will address various issues that could potentially arise in the preparation and management of a wedding or related event. All aspects of planning and attention to details that will ensure that students are prepared to provide services as a professional wedding planner. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

HOST 239. Introduction to Hotel Management 3 Credits

This course covers basic management functions in hotels, resorts, Boutique Hotels, Bed & Breakfast establishments, and other lodging operations. All aspects of the operation are covered including guest management, operations, and sales and marketing. Restricted to: Branch campuses only.

HOST 255. Special Topics

3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

HOST 298. Independent Study

1-3 Credits (1-3)

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated for a maximum of 3 credits. Restricted to: Community College campuses only. **Prerequisite(s):** Minimum 3.0 GPA and sophomore standing.

HRTM-HOTEL/RESTRNT/TOURISM MGT (HRTM)

HRTM 111. Freshman Orientation

1 Credit

Orientation to university life, including available resources and methods to promote success at NMSU. Open to all freshmen and transfer students. Graded S/U.

HRTM 200. Special Topics

1-4 Credits

Specific subjects and credits to be assigned on a semester basis for both lecture and laboratory assignments. May be repeated for a maximum of 4 credits.

Prerequisite: consent of instructor.

HRTM 201. Introduction to Tourism

3 Credits

Survey of travel and tourism development and operating characteristics.

HRTM 221. Introduction to Hospitality Management 3 Credits

Overview of the major segments of the hospitality industry, with a focus on basic management principles.

HRTM 231. Food Safety and Sanitation in the Hospitality Industry 1 Credit

Addresses public health, HACCP, and food safety responsibilities in the hospitality industry. Sanitation certification test allows students to receive national ServSafe Food Protection Manager Certification. Restricted to Las Cruces campus only.

HRTM 235. Hotel Operations I

3 Credits

Analysis of hotel operations to include: guest services, reservations, reception, guest/city ledger and the night audit. May be repeated up to 3 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** HRTM 221.

HRTM 263. Food Production and Service Fundamentals 3 Credits (1+4P)

Basic overview of food service systems including menu management, purchasing and production. The course includes basic principles of food fabrication and production. Topics include knife skills, culinary terminology, product identification, quality standards, nutritional cooking theory and application of food preparation techniques. The course includes laboratory aspects and demonstration of basic food production techniques, service styles, practices and procedures in food service operations including culinary math, culinary nutrition, and food service sanitation. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): HRTM 231 or proof of valid ServSafe Food Protection Manager certificate. Prerequisite(s): HRTM 221 or FSTE 263G. Restricted to Las Cruces campus only.

HVAC-HEATING/AC/REFRIGERATION (HVAC)

HVAC 100. EPA Clean Air Act: Section 608

1 Credit

Refrigerant certification preparation to include basics of refrigerant bearing equipment, ozone depletion and the new legislation, technician categories covered and the certification examination.

HVAC 101. Fundamentals of Refrigeration 4 Credits (3+2P)

Refrigeration cycle and the various mechanical components. Use of special tools, equipment, and safety precautions.

HVAC 102. Fundamentals of Electricity

4 Credits (3+2P)

Introduction to electricity theory, OHM s Law, circuits, AC/DC, and practical applications.

HVAC 103. Electrical and Mechanical Controls I 4 Credits (3+2P)

Applications of basic electrical and mechanical controls. Reading and drawing diagrams of simple refrigerating equipment. Safe use of testing equipment.

Prerequisites: HVAC 101 and HVAC 102, or consent of instructor.

HVAC 110. Professional Development and Leadership 1 Credit

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: HVAC majors. S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

HVAC 113. Job Shadowing

1 Credit

Course will expose students to actual HVAC/R field work and provide them knowledge of the expectations of field work as they shadow an HVAC/R technician. Consent of instructor required. Restricted to: Community colleges only.

HVAC 205. Commercial Refrigeration Systems 4 Credits (3+2P)

Service and maintenance of commercial refrigeration equipment to include evacuation and charging procedures, electrical diagrams, and compressors and accessories.

Prerequisites: HVAC 103 or consent of instructor.

HVAC 207. Residential Air Conditioning Systems 4 Credits (3+2P)

Applications and types of equipment used in comfort cooling. Preventive maintenance, service, and repairs common to evaporative coolers and refrigerated air conditioning systems. Air properties and psychometrics. **Prerequisite:** HVAC 103 or consent of instructor.

HVAC 209. Residential Heating Systems

4 Credits (3+2P)

Gas and electric systems used in comfort heating. Maintenance procedures, safety, troubleshooting, and servicing malfunctions in equipment.

Prerequisite: HVAC 103 or consent of instructor.

HVAC 210. Commercial Air Conditioning and Heating Systems 4 Credits (3+3P)

Covers troubleshooting mechanical and electrical problems associated with HVAC equipment in commercial buildings. Includes gas, electric, and heat pump systems. Restricted to Community Colleges campuses only. **Prerequisite(s):** HVAC 103 or consent of instructor.

HVAC 211. Heat Pump Systems

4 Credits (3+2P)

Reverse cycle refrigeration systems utilized in comfort heating and cooling. Troubleshooting mechanical electrical problems associated with heat pumps. HVAC 103 or consent of instructor.

HVAC 213. Practicum

3 Credits

Working in the field with journeymen service technicians. Develop and apply job skills. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: HVAC majors. Restricted to Community Colleges campuses only.

Prerequisite(s): HVAC 113 and Consent of instructor.

HVAC 220. Introduction to Sheet Metal Fabrication 4 Credits (3+2P)

Introduction to sheet metal fabrication to include hands-on practical laboratory applications, cutting and forming procedures, identifying types and gauges. Design and layout techniques.

Prerequisite: OETS 118 or equivalent math or consent of instructor.

HVAC 225. New Mexico Mechanical Codes: HVAC

1-4 Credits

Principles and regulations developed for HVAC, sheet metal, and plumbing occupations to include terminology, ventilation air supply, exhaust systems, duct systems, combustion air, chimneys and vents, boilers/water heaters, refrigeration, panel and hydronic panel heating, fuel gas piping, storage systems, solar systems, and workmanship standards. May be repeated for a maximum of 12 credits.

HVAC 255. Special Topics

1-6 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

HVAC 290. Special Problems

1-4 Credits

Individual studies related to heating, air conditioning, and refrigeration. **Prerequisites:** HVAC 101, HVAC 102, and consent of instructor.

I E-INDUSTRIAL ENGINEERING (I E)

I E 110. Industrial Engineering Orientation

1 Credit

Introduction to Industrial Engineering Department, Facility Research and Resources. Overview of where industrial engineering fits into larger view of all of engineering. Introduction to university resources for industrial engineering students. Restricted to majors.

I E 151. Computational Methods in Industrial Engineering 3 Credits

History, social implications, and application of computers and an introduction to computer programming, word processing, and database management systems. Satisfies General Education computer science requirement.

Prerequisite: MATH 121G.

I E 200. Special Problems-Sophomore

1-3 Credits

Directed individual projects. May be repeated for a total of 3 credits. **Prerequisite:** consent of faculty member.

I E 217. Manufacturing Processes

2 Credits

Manufacturing methods and industrial processes which include casting, forming and machining. May be repeated up to 2 credits. Crosslisted with: E T 217. M E 159.

Prerequisite(s): MATH 121G.

Corequisite(s): I E 217 L.

I E 217 L. Manufacturing Processes Laboratory

1 Credit

Laboratory associated with I E 217. May be repeated up to 1 credits. **Prerequisite(s):** M E 159.

INMT - INDUSTRIAL MAINTENANCE (INMT)

INMT 133. Process Technology and Systems 4 Credits

Provides instruction in the use of common process equipment. Students will use appropriate terminology and identify process equipment components such as piping and tubing, valves, pumps, compressors, turbines, motors, engines, heat exchangers, heaters, furnaces, boilers, filters dryers and other miscellaneous vessels. Included are the basic functions, scientific principles and symbols. Students will identify components on typical Process Flow Diagrams and Process and Instrument Diagrams. Restricted to Carlsbad campus only.

INMT 134. Maintenance Principles 4 Credits

The course is an introduction to the maintenance of equipment utilizing mechanical, electrical and instrumentation concepts. Topics include: hand tools, bearing fundamentals, equipment lubrication, material handling, electrical safety, battery systems, diagrams, electrical production and distribution, transformers, breakers, switches, AC and DC motors, motor controllers and operations, and introduction to automation and instrumentation control. Restricted to Carlsbad campus only.

INMT 165. Equipment Processes 4 Credits

This course introduces power transmission equipment and machinery components, including belt/chain driven equipment, speed reducers, variable speed drives, couplings, clutches, and conveying equipment. Students will learn the operation, maintenance, and troubleshooting for these types of equipment. The course also includes Overhead Crane Certification and Safety. Restricted to Carlsbad campus only.

INMT 205. Programmable Logic Controllers and Applications 4 Credits

Students learn about programmable logic controllers; architecture; programming, interfacing, and applications. Hands-on experience on modern commercial PLC units is the main component. Restricted to Carlsbad campus only.

Prerequisite(s): Computer Literacy (CS 110).

INMT 223. Electrical Repairs

4 Credits

This course outlines for students the types of problems that occur in electrical machinery and systems. The course covers trouble-shooting and diagnosis, preventative maintenance, and how to make necessary repairs. Restricted to Carlsbad campus only.

INMT 235. Mechanical Drives I

4 Credits

This course teaches the fundamentals of mechanical transmission systems used in industrial, agricultural, and mobile applications. Students will learn industrial relevant skills including how to: operate, install and analyze performance, and design basic transmission systems using chains, feed-belts, spur gears, bearings, and couplings. Vibration analysis will be used to determine when to perform maintenance of power transmission components. The course also covers power transmission safety, and introduction to belt and chain drives (applications, installations, and tensioning), and introduction to gear drives, coupling, and bearing, basic troubleshooting, blueprint and print reading, learning the basics of electrical drives and PDM and PM. Restricted to Carlsbad campus only.

INMT 236. Lubrication Process 3 Credits

This course teaches the technical skills needed to operate, install, tune, maintain and troubleshoot automatic lubrication systems. Lubrication concepts, setup and tuning, pneumatic pumps, series-progressive valve systems and microprocessor based lubrication controllers will be covered. The course covers the principles of and importance of lubrication, oils and grease types and applications, lube management (storage, handling, and purity), and PDM and PM. Restricted to Carlsbad campus only.

INMT 237. Hydraulics I

2 Credits

This course teaches fundamentals of hydraulic systems used in industry mobile application. Students learn the basic theory of application of hydraulic and electricity as it applies to hydraulics. Covered in the course are basic systems, principles of flow, pressure, viscosity, filtration, and colling. Also covered are basic components such as motor, pumps, cylinders, piping and control and relief valves. Troubleshooting strategies are discussed, along with blueprint and print reading, and PDM and PM. Industry, relevant skills including how to operate, install, analyze performance, and design basic hydraulic systems, reviewing intermediate hydraulic components and system applications. Restricted to Carlsbad campus only.

INMT 261. Pump Operations I

4 Credits

This course teaches how to select, operate, install, maintain and repair the many types of pumps used by industry. Students learn the theory and practical application of all types of processed pumps and pipe systems. It covers types, components, and systems operation. It also covers troubleshooting for flow loss and cavitation. Students learn how to select, operate, install, maintain and repair the many types of pumps used by industry. Other topics covered include: Net Positive Suction Head, pump flow/head measurement, pressure head conversion, pressure flow characteristics, cavitation, series/parallel pump operation, mechanical seal/stuffing box maintenance, multi stage operation and construction, positive displacement pumps, turbine, diaphragm, peristaltic, piston, gear, and magnetic pump systems. Restricted to Carlsbad campus only.

INMT 262. Piping Systems

2 Credits

This course teaches students how to install, maintain and troubleshoot fluid systems such as how to select, size, identify, install a variety of types of piping, fittings, and valves. Measurement techniques from basic to precision measurement, gauging, including the fundamentals of demonsioning and tolerancing will taught. Restricted to Carlsbad campus only.

INMT 263. Mechanical Drives II 4 Credits

This course teaches the bearings and gears used in heavy duty mechanical transmission systems. This course will emphasize linear access drives, clutches, and brakes. In addition, this course teaches how to set up, operate and apply laser shaft alignment to a variety of industrial applications. This course is a study of the basic concepts and procedures for the maintenance and operations of pumps, turbines, seals, bearings, and compressors. The course will provide the student with the knowledge and skills necessary to perform proper maintenance, repair, replacement and selection of pumps, turbines, seals, bearings and compressors. Also covered are advanced gearbox, coupling and bearings, precision alignment (shaft, flange, and sheave), as well as basic vibration analysis and thermography as troubleshooting and RCA aids. Restricted to Carlsbad campus only.

INMT 264. Rigging

2 Credits

This course teaches how to safely move loads of different shapes and sizes using a variety of different methods. Students will lift loads and demonstrate how to move it. Students will use hoists, slings, ropes and fittings to learn how to safely lift a wide variety of loads. Included are weight estimation, lifting rules, load ratings (sling, wire, ropes and hoists). Restricted to Carlsbad campus only.

INMT 265. Hydraulics II

2 Credits

This course teaches advanced hydraulics systems. The student will learn operation of advanced hydraulic systems applications, equipment installation, performance analysis of motors and pumps, accumulators, control, relief and check valve, equipment maintenance, and system design. The course covers accumulators, sequence valves, pilot circuits and unloader valves. Students learn more troubleshooting, hydraulic drives and other applications. Restricted to Carlsbad campus only.

INMT 267. Pump Operations II 2 Credits

This course teaches the student the disassembly, inspection and reassembly of centrifugal and positive displacement pumps. This course allows the student to identify and replace worn or broken components of pumps, and learn predictive and preventive maintenance principles. Lockout of the pump will be performed in addition to measurements and alignment. Restricted to Carlsbad campus only.

INTEGRATED NATURAL SCIENCES (NSC)

NSC 131. General Sciences

3 Credits (2+2P)

Designed for Allied Health students to explore the fundamentals of physical and life sciences.

JOUR-JOURNALISM (JOUR)

JOUR 102. Grammar for Journalists 2 Credits

Instruction of basic grammar, spelling and punctuation. Required for all journalism students with an ACT English score below 25, SAT Verbal below 570, or students who have not taken ACT/SAT tests. Restricted to Las Cruces campus only.

JOUR 105G. Media and Society

3 Credits

Functions and organization of the mass media system in the United States; power of the mass media to affect knowledge, opinions, and social values; and the impact of new technologies.

JOUR 110. Introduction to Media Writing 3 Credits (2+2P)

Preparation of copy for broadcasting, print, advertising, and public relations. Introduction to Web applications. May be repeated up to 3 credits.

Prerequisite(s): JOUR 102 or ACT score of 25 and above or SAT score of 570 and above.

JOUR 201. Introduction to Multimedia 3 Credits

Provide students with the basic skills to produce multimedia packages using text, photos, audio and video, as well as social media for professional purposes. Intensive hands-on class using editing software such as Adobe Premiere. Adobe Audition and Photoshop. May be repeated up to 3 credits.

JOUR 210. Newswriting & Reporting

3 Credits (2+2P)

Intensive laboratory practice in writing and field reporting news for print and Internet. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

Prerequisite(s): JOUR 102 or ACT score of 25 and above or SAT score of 570 and above and JOUR 110.

JPNS-JAPANESE (JPNS)

JPNS 111. Elementary Japanese I 4 Credits Japanese language for beginners.

JPNS 112. Elementary Japanese II

4 Credits

Japanese language for beginners. **Prerequisite:** grade of C or better in JPNS 111 or consent of instructor.

JPNS 211. Intermediate Japanese I 3 Credits

Speaking, reading and writing the Japanese language. **Prerequisite:** grade of C or better in JPNS 112 or consent of instructor.

JPNS 212. Intermediate Japanese II

3 Credits

Speaking, reading and writing the Japanese language. **Prerequisite:** grade of C or better in JPNS 211 or consent of instructor.

L SC-LIBRARY SCIENCE (L SC)

L SC 100. Introduction to Libraries

3 Credits

Overview of libraries, including history and development, responsibilities of library personnel, types of libraries and services, and technology and trends. Restricted to Dona Ana campus only.

L SC 110. Reference and Information Resources I 3 Credits

Overview of reference services. Introduction to, and evaluation of, basic types of information resources (both print and electronic) and their application in libraries.

L SC 111. Introduction to Information Literacy in an Electronic Environment

3 Credits

Introduction to the basics of the research process; the organization, location and evaluation of information using print, non-print and electronic resources. Restricted to: Community Colleges only.

L SC 112. Introduction to Consumer Health Information Literacy in an Electronic Environment

3 Credits

Introduction to consumer health information literacy; the process and organization, location, and evaluation of online information. Restricted to: Community Colleges only.

L SC 120. Cataloging Basics I: Descriptive Cataloging 3 Credits

Introduction to descriptive cataloging. Restricted to: Dona Ana campus only.

L SC 125. Cataloging Basics II: Classification and MARC Cataloging 3 Credits

Continuation of descriptive cataloging basics. Introduction to subject analysis, classification and MARC coding. Restricted to: Dona Ana campus only.

L SC 130. Introduction to Technical Services in Libraries 3 Credits

Introduction to technical services in libraries, including acquisitions, bindery, cataloging, gifts, and serials. Restricted to Dona Ana campus only.

L SC 140. Multimedia Materials and Presentations in Libraries 3 Credits

Overview of media formats and equipment. Introduction to desktop publishing, presentations, and web-page creation applications in libraries. Restricted to: Community Colleges only.

L SC 150. Library Services for Children and Young Adults 3 Credits

Library services for children and young adults with an overview of materials, programs, and services for this population. Restricted to: Dona Ana campus only.

L SC 153. Picture Books and Young Children 1 Credit

If children are to enjoy reading they need to be exposed to books at an early age. This course will provide information to help guide librarians, preschool teachers, parents, and care givers in choosing appropriate books for those younger than six, and how to use books with this age group. Restricted to Dona Ana campus only.

L SC 154. State Children's Book Awards 1 Credit

Students will explore the state book award offered by their state. Students will read some of the books and plan library programs to promote the award. Restricted to: Dona Ana campus only.

L SC 155. Award Winning Books for Children

1 Credit

A review of book awards and how to integrate award winning books into school curriculum or public school programming. Restricted to: Community Colleges only.

L SC 160. Introduction to Public Services in Libraries 3 Credits

Introduction to public services in libraries, including circulation, inter-library loan, reference, media services, special collections, and government documents. Restricted to Dona Ana campus only.

L SC 175. Civic Involvement in Library Science 1-3 Credits

Involvement in an organized community service project or group with a library or information technology component. Promotes awareness of volunteer and community service opportunities. May be repeated for a maximum of 6 credits. Graded: S/U. Restricted to: Dona Ana campus only.

L SC 191. Children's Books and their Movie Adaptations 1 Credit

For almost as long as there have been popular books for children in the United States, there have been dramatic adaptations of them. What is gained, and lost, when children's books are adapted for the big screen? What is the relationship-or what should the connection be-between works of children's literature and their seemingly inevitable film adaptations? Students will be expected to read several children's books and view the movies based on them and make comparisons. Restricted to: Community Colleges only.

L SC 192. Myths and Legends in Children's Literature 1 Credit

The student will explore myths and legends from diverse cultures; from European and Asian to those who have their roots in Africa and the Americas. Myths which are similar across several cultures will be compared.

L SC 193. Poetry for Children

1 Credit

This course will explore the genre of poetry for children. In this class, participants will focus on reading and reviewing poetry for kids, exploring poetry on the Web, and trying interactive approaches for sharing poetry with children. Topics include: study and analysis of poetry, ways to use poetry in the classroom, writing poetry with children. Restricted to: Community Colleges only.

L SC 195. Mysteries for Children

1 Credit

In this course the student will become familiar with a wide variety of mysteries for children. Ways to use mysteries in the classroom and school library will also be covered. Restricted to Community Colleges campuses only.

L SC 196. Historical Fiction for Children

1 Credit

This course looks at historical fiction as a genre. Topics include: fiction vs. history, American history in children's literature, world history in children's literature, activities for using historical fiction in a school setting. Restricted to: Community Colleges only.

L SC 197. Fantasy and Speculative Fiction 1 Credit

This course offers professionals serving school students the opportunity to increase your appreciation and knowledge of fantasy and speculative fiction through intense reading and discussion of representative works. The course will also investigate and consider options using fantasy and speculative fiction in a school setting. Restricted to: Community Colleges only.

L SC 200. Collection Management and Development in Libraries 3 Credits

Principles of identifying, selecting, acquiring, managing, and evaluating resources for libraries. Restricted to Dona Ana campus only.

L SC 201. Public Libraries

3 Credits

A study of the American public library and its place in communities. Topics may include history, philosophy, and standards, operations and procedures, governance, funding, personnel materials, user services, outreach and advocacy. Restricted to: Dona Ana campus only.

L SC 203. School Library Media Specialist 3 Credits

Principles and practice of managing the school library media center, with an emphasis on its specific educational mission. Topics may include collection development, classes and lesson plans, public relations, administrative procedures, and use of technology. Restricted to Dona Ana campus only.

L SC 210. Technology Planning in Libraries 3 Credits

Overview of computer applications in libraries. Topics may include automated systems and electronic resources, introduction to evaluation of technology, and writing a technology plan. Restricted to Dona Ana campus only.

L SC 220. Innovative Technology Applications for Libraries 3 Credits

A look at uses for innovative technologies in libraries. Topics may include blogs, wikis, podcasting and virtual reality libraries. Restricted to Dona Ana campus only.

L SC 221. Experiential Learning I

1-3 Credits

Student is employed (paid or non-paid) in an approved work site and evaluated by their supervisor. Each credit requires a specified number of hours of on-the job work experience. Consent of Instructor required. S/U Grading (S/U, Audit). Restricted to Dona Ana campus only. **Prerequisite(s):** Consent of instructor.

L SC 230. Issues and Ethics in Libraries 3 Credits

Discussions of current and continuing challenges to effective library service. Topics may include copyright, censorship, intellectual freedom, Internet filtering, problem patrons, security, or other current issues. Restricted to Dona Ana campus only.

L SC 240. Internet Resources and Research Strategies 3 Credits

Introduction to retrieving and evaluating information found on the Internet and in selected Internet-accessible databases. Restricted to: Dona Ana campus only.

L SC 250. Reference and Information Resources II 3 Credits

Evaluation and use of specialized information resources to offer reference services. Emphasis is on virtual reference and other innovative techniques. Restricted to: Dona Ana campus only.

L SC 255. Special Topics

1-3 Credits

Special topics to be announced in Schedule of Classes. May be repeated for a maximum of 12 credits. Restricted to: Dona Ana campus only.

L SC 270. Library Science Capstone 3 Credits

A culmination of all technical courses that are required to receive an Associate of Applied Science from the program centering around the completion of a library related project. Discussions on the role of paraprofessionals in libraries. Restricted to: Dona Ana campus only.

L SC 275. Fundamentals of Library Supervision 3 Credits

An introduction to supervision of library employees, including student assistants, to create a productive workplace. Restricted to: Dona Ana campus only.

L SC 286. Children's Literature and the Primary Curriculum 3 Credits

The student will research the use of picture books and other children's literature across the curriculum with students in kindergarten through second grade. Topics include: using literature to teach writing, using literature to teach science, using literature to teach math, using literature to teach social studies. Restricted to: Community Colleges only.

L SC 290. Introduction to Children's Literature for Libraries 3 Credits

This course will introduce current and potential library personnel to a wide variety of literature written for children. The course explores the history of children's literature and the path it has taken. Students will read many books from a variety of genre, explore the literary elements found in those books, and develop some evaluation criteria and ways for children to respond to the literature they read. Restricted to Dona Ana campus only.

L SC 291. Southwestern Children's Literature 1 Credit

This course will introduce students to books which can teach the children visiting your library more about the people and places of the southwest. Restricted to: Dona Ana campus only.

L SC 292. Native American Children's Literature 1 Credit

This course will introduce students to some children's and young adult books written by and about Native Americans. Restricted to: Dona Ana campus only.

L SC 295. Introduction to Young Adult Literature 3 Credits

The course will expose students to quality adolescent literature available for reading and study in middle and high school classes. It provides a broad survey of young adult literature and focuses on building an appreciation of literature, encouraging student reading, developing lifelong readers, and developing activities for critical thinking. Restricted to: Community Colleges only.

L SC 296. Multicultural Books for Children and Youth 3 Credits

This course explores a wide range of multicultural children's literature including: African American, Native American, Latino, Asian, Jewish, and Middle Eastern. Topics covered include: nonfiction of the cultures, historical fiction of the cultures, and contemporary literature of the cultures. Restricted to: Community Colleges only.

L SC 298. Independent Study

1-3 Credits

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated for a maximum of 12 credits. Restricted to: Dona Ana campus only.

LANG-LANGUAGE (LANG)

LANG 111. Beginning Language I

4 Credits

Developing language skills through study abroad for languages not offered at NMSU main campus. Specific languages to be identified with course subtitles. Main campus only.

Prerequisite: Language placement exam or consent of the instructor.

LAWE-LAW ENFORCEMENT (LAWE)

LAWE 201. Introduction to Juvenile Delinquency 3 Credits

An introductory overview of the juvenile justice system of due process, custody, detention and release. Note: course does not meet upper division requirements towards completion of Bachelor of Science in Criminal Justice. Restricted to: Community Colleges Only.

LAWE 202. Police Patrol Procedures

3 Credits

A critical review of police procedures and the influences on police behavior; policy development, including the police role; discretion; police community interaction and arrest, search and seizure. Restricted to: Community Colleges only.

LAWE 203. Introduction to Police Supervision 3 Credits

An introductory overview of police supervision and concerns as it applies to law enforcement. (Note: Course does not meet upper division requirements toward completion of Bachelor of Science in Criminal Justice.) Restricted to: Community Colleges only.

LAWE 204. Introduction to Homeland Security 3 Credits

A historical perspective of international and domestic terrorist threats and the need to develop cohesive response policies and practices in the interest of National Security. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.] Restricted to: Community Colleges only. **Prerequisite(s):** C J 101.

LAWE 205. Practical Field Investigations 4 Credits (3+3P)

Incorporates the current methods and techniques for the management of the crime scene, includes documentation, collection and preservation of evidence and case presentations. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.] Restricted to Community Colleges campuses only. **Prerequisite(s):** C J 101 and C J 221.

LAWE 206. Traffic Enforcement and Crash Investigations 3 Credits

History and development of traffic laws and regulations, including basic elements of traffic violations, detection, apprehension, impaired drivers and guidelines and procedures for effective crash investigations and reporting. Restricted to: Community Colleges only.

LAWE 207. Legal Aspects of Law Enforcement 3 Credits

An evaluation of police authority including responsibilities, civil liability, liability implications, legal obligations, legal restraints, laws of arrest, and search and seizure. Retricted to: Community Colleges only.

LAWE 221. Law Enforcement Internship

3 Credits

Application of knowledge, skills and abilities, in an agency as an intern and integrated member of a law enforcement affiliated agency. **Prerequisite:** consent of instructor.

LAWE 233. Practical Approach to Terrorism 3 Credits

Gives responders an overall safety approach in recognizing and responding to incidents involving terrorism. Presents and overview in types of harm, explosive weapons, chemical weapons, biological weapons and radiological weapons. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.] Restricted to: Dona Ana campus only. Crosslisted with: FIRE 233

LIB-LIBRARY SCIENCE (LIB)

LIB 101. Introduction to Research

1 Credit

A practical, hands-on, step-by-step introduction to the basics of university-level library research. Topics include the academic method, plagiarism, selection and use of information resources. (Eight-week course.)

LIB 111. Introduction to Information Literacy in an Electronic Environment

3 Credits

Introduction to the basics of the research process; the organization, location and evaluation of information using print, non-print and electronic resources; and techniques of effective personal information management in a computerized setting. Uses a combination of active and hands-on learning methods as well as lectures.

LING-LINGUISTICS (LING)

LING 200G. Introduction to Language 3 Credits

Traditional fields of language study (sound, grammar, meaning) and newer ones (language as social behavior, language and cognition, language variation, animal communication).

M E-MECHANICAL ENGINEERING (M E)

M E 102. Mechanical Engineering Orientation 1 Credit

Emphasis on tours of M E labs and NMSU facilities that illustrate possible career paths for mechanical engineers. Students are introduced to department faculty, student organizations, and support services at NMSU. Topics include role of good communication skills, using modern technology, team building, and intellectual property. Students are advised in planning balance of their academic program. Restricted to majors.

M E 159. Graphical Communication and Design 2 Credits (1+3P)

Sketching and orthographic projection. Covers detail and assembly working drawings, dimensioning, tolerance specification, and design projects. Pre/

Corequisite(s): MATH 190G.

M E 201. Supplemental Instruction to Dynamics 1 Credit

Optional workshop for students in M E 237. The workshop focuses on problem solving skills associated with M E 237. Course does not count toward departmental degree requirements. May be repeated up to 1 credits. Restricted to Las Cruces campus only. **Corequisite(s):** M E 237.

M E 202. Supplemental Instruction to Thermodynamics

1 Credit

Optional workshop for students in ME 240. The workshop focuses on problem solving skills associated with ME240. Course does not count toward departmental degree requirements. Restricted to Las Cruces campus only.

Corequisite(s): M E 240.

M E 210. Electronics and System Engineering 3 Credits (2+3P)

Introduction to microcontrollers, measurement systems, motion actuators, sensors, electric circuits, and electronic devices and interfacing. Students required to work individually and in teams to design and test simple electromechanical systems. Restricted to Las Cruces campus only.

Prerequisite(s): MATH 192.

M E 222. Introduction to Product Development 3 Credits (2+3P)

Introduction to modern methods used in the realization of products. Traditional manufacturing processes, such as metal stamping, turning, milling, and casting are reviewed. Modern methods of rapid prototyping and model making are discussed in context of computer-aided design. Techniques for joining metals, plastics, and composites are discussed. Role of quality control is introduced.

Prerequisite: M E 159.

M E 228. Engineering Analysis I 3 Credits

Introduction to engineering analysis with emphasis on engineering applications. Topics include ordinary differential equations, linear algebra, and vector calculus with focus on analytical methods. Restricted to Las Cruces campus only.

Prerequisite(s): MATH 291.

M E 234. Mechanics-Dynamics

3 Credits

Kinematics and dynamic behavior of solid bodies utilizing vector methods.

Prerequisite(s)/Corequisite(s): MATH 291G. Prerequisite(s): C E 233.

M E 236. Engineering Mechanics I 3 Credits

Force systems, resultants, equilibrium, distributed forces, area moments, friction, and kinematics of particles. Pre/ Restricted to: Main campus only.

Prerequisite(s): MATH 192G. Corequisite(s): PHYS 215G.

M E 237. Engineering Mechanics II

3 Credits

Kinetics of particles, kinematics and kinetics rigid bodies, systems of particles, energy and momentum principles, and kinetics of rigid bodies in three dimensions. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 291. Prerequisite(s): M E 236.

M E 240. Thermodynamics

3 Credits

First and second laws of thermodynamics, irreversibility and availability, applications to pure substances and ideal gases. **Prerequisite:** PHYS 215G.

M E 261. Mechanical Engineering Problem Solving 3 Credits (2+3P)

Introduction to programming syntax, logic, and structure. Numerical techniques for root finding, solution of linear and nonlinear systems of equations, integration, differentiation, and solution of ordinary differential equations will be covered. Multi function computer algorithms will be developed to solve engineering problems.

Prerequisite(s): MATH 192.

M SC-MILITARY SCIENCE (M SC)

M SC 110. Introduction to Military Science 2 Credits (2+1P)

Introduction to the Army, the Profession of Arms, and critical thinking. Students will examine the Army Profession and what it means to be a professional in the U.S. Army. The overall focus is on developing basic knowledge and comprehension of the Army Leadership Requirements Model while gaining a complete understanding of the Reserve Officers' Training Corps (ROTC) program, its purpose in the Army, and its advantages for the student. Cadets also learn how resiliency and fitness supports their development as an Army leader. Includes a weekly lab facilitated by MSL III Cadets and supervised by Cadre. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

M SC 110 L. Introduction to Military Science Lab 1 Credit

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 110.

M SC 111. Introduction to Leadership 2 Credits (2+1P)

Introduction to the personal challenges and competencies that are critical for effective leadership. Students learn how the personal development of life skills such as critical thinking, time management, goal setting, and communication contribute to effective leadership. Students learn the basics of the communications process and the importance for leaders to develop the essential skills to effectively communicate in the Army. Students will begin learning the basics of squad level tactics that will be reinforced during a weekly lab facilitated by MSL III Cadets and supervised by Cadre. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

M SC 111 L. Introduction to Leadership Lab 1 Credit

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 111.

M SC 210. Self/Team Development 3 Credits (3+1P)

A focus on leadership and decision making. The course adds depth to the student's understanding of the Adaptability Army Learning Area. Outcomes are demonstrated through Critical and Creative Thinking and the ability to apply Troop Leading Procedures (TLP) to apply Innovative Solutions to Problems. The Army Profession is also stressed through leadership forums and a leadership self-assessment. Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during a weekly lab facilitated by MSL III Cadets and supervised by Cadre and three physical fitness sessions per week. Restricted to Las Cruces campus only.

M SC 210 L. Self/Team Development Lab

1 Credit

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 210.

M SC 211. Leadership in Action and Team Building 3 Credits (3+1P)

A focus on Army doctrine and team development. The course begins the journey to understand and demonstrate competencies as they relate to Army doctrine. Army Values, Teamwork, and Warrior Ethos and their relationship to the Law of Land Warfare and philosophy of military service are also stressed. The ability to lead and follow is also covered through Team Building exercises at squad level. Students are then required to apply their knowledge outside the classroom in a hands-on performanceoriented environment during a weekly lab facilitated by MSL III Cadets and supervised by cadre and three physical fitness sessions per week. Restricted to Las Cruces campus only.

M SC 211 L. Leadership in Action and Team Building Lab 1 Credit

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

M SC 225. Directed Studies 1-3 Credits

Individual directed studies under supervision of the Professor of Military Science. May be repeated up to 12 credits. Restricted to Las Cruces campus only.

Prerequisite(s): GPA 2.5 or better.

MAT-AUTOMATION & MANUFACTURING (MAT)

MAT 102. Print Reading for Industry

3 Credits (2+2P)

Reading, interpretation, and revisions of industrial technical drawings common to manufacturing, Aerospace, machine parts, electrical, hydraulic, and Pneumatic drawings. Interpretation of engineering drawings and related shop calculations. Introduction Crosslisted with: AERT 113. Restricted to: Community Colleges only.

MAT 105. Introduction to Manufacturing 3 Credits

Introduction to manufacturing evolution from basic assembly process to modern automated processes. Covers history, employability, soft skills, quality measurements, teamwork concept, production requirements, and considerations in plan layout and design. Minimum math proficiency of CCDM 114 required or math placement into MATH 120 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 112

MAT 106. Applied Manufacturing Practices 3 Credits (2+2P)

Course will illustrate how various products are manufactured along with associated process. Mechanical behavior such as bending, cold worked, strained, work hardened, and heat transfer will be emphasized as well. In lab, students will learn how to make selected products starting from prints to complete projects including quality control. Crosslisted with: AERT 114. Restricted to: Community Colleges only.

MAT 108. Metrology, Safety and Quality Control for Manufacturing 3 Credits (2+2P)

Use of measuring tools in manufacturing process and quality control. These tools include: vernier and digital micrometers, calipers, height gauges, hole gauges, pin gauges, electrical pressure/flow, temperature measuring, stress/strain measurements, and non-destructive testing (eddy currents, magnetic particle, ultrasonic, bubble emission, x-ray, Gamma ray, radiography, visual inspection, ring test, taping & Zyglo). Instruction to use of coordinate machine while covering the safety issues that pertains to these types of tools and equipment. Restricted to: Community Colleges only.

MAT 110. Machine Operation and Safety 3 Credits (2+2P)

Introduction to the operation and safety aspects of various types of machinery and equipment, including both mechanical and electrical machines, Rigid Tubing, and Flexible Lines. Maintenance and safety operation of industrial equipment will also be covered. Restricted to: Community Colleges only. Crosslisted with: AERT 115

MAT 130. Applied Industrial Electricity I 4 Credits (3+2P)

Electrical safety, AC and DC circuits, use and care of common measuring instrumentation, schematic and wiring diagrams, electromagnetism, National Electric Code branch circuits. Restricted to: Community Colleges only.

Prerequisite(s): MATH 120 or ELT 120 or OETS 118.

Prerequisite(s): MSC 211.

MAT 135. Applied Industrial Electricity II 4 Credits (3+2P)

Relationship between motor power, speed, and torque, basic application of relay circuits, motor control circuits, inductance and capacitance factors, transformers, solid state devices circuits and applications. Restricted to: Community Colleges only. **Prerequisite(s):** MAT 130.

MAT 145. Electromechanical Systems for Non-Majors 4 Credits (3+3P)

Electromechanical system interfacing. Principles and applications of preventive and corrective maintenance procedures on automated industrial production machines using system technical and maintenance manuals to develop troubleshooting procedures using systems block and schematic diagrams.

Prerequisite: consent of instructor.

MAT 205. Statistical Controls for Manufacturing Technicians 3 Credits (2+2P)

Use of hardware and software for quality assurance to include the design of experiments, sampling techniques, SPC, control chart application and development, and process reliability. Restricted to: Community Colleges only.

Prerequisite(s): ELT 120 or MATH 120.

MAT 221. Cooperative Experience I

1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and rated by employer and instructor. Student meets in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

MAT 234. Industrial Electricity Maintenance 3 Credits (2+2P)

Introduction into electrical systems, theory and uses for the different types of motors used in the industry and related industrial safety practices. DC, AC stepper and servo motors, motor speed and torque, motor performance, and efficiency, motor control fundamentals using variable frequency drives, vector controls, servo and stepper drives. Restricted to: Community Colleges only.

MAT 235. Programmable Logic Controllers Pneumatics 2 Credits (1+2P)

Introduction to theory and application of pneumatic power transfer and control. Programmable logic controllers (PLC s) introduced as controlling elements for electropneumatic systems. Restricted to: Community Colleges only.

MAT 240. Electromechanical Devices

4 Credits (2+4P)

Theory and application of electromechanical devices and digital control circuits. Includes AD and DA converters, pneumatics, hydraulics, programmable logic controllers, DC, AC, and stepper motors, and servomechanisms. Crosslisted with: AERT 211 **Prerequisite(s):** MAT 160 and (MAT 105 or (MAT 110 & MAT 135)).Restricted to: Community Colleges only.

MAT 245. Electromechanical Systems

3 Credits (2+2P)

Electromechanical system interfacing. Principles and applications of preventive and corrective maintenance procedures on industrial production machines using system technical and maintenance manuals to develop troubleshooting procedures using systems block and schematic diagrams. Crosslisted with: AERT222.

Prerequisite(s)/Corequisite(s): AERT 211 or MAT 240. Prerequisite(s): ELT 135 and ELT 160. Restricted to: Community Colleges only.

MAT 265. Special Topics 1-6 Credits

Course subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

MATH-MATHEMATICS (MATH)

A student may not receive credit for a lower-division mathematics course if it serves as a prerequisite to a lower-division math course that the student had previously passed with a grade of C- or better.

Students without adequate placement to enroll in MATH 111, MATH 120 or MATH 210G can gain admission to the course by earning a C- or better in CCDM 114 N at an NMSU Community College campus, or in A S 103.

Students wishing to enroll in MATH 121G, MATH 142G, MATH 190G, MATH 191G, MATH 235, or STAT 251G must satisfy one of the following:

- 1. have passed the stated prerequisite course or an equivalent transfer course with a C- or better
- have placed into the course with an adequate ACT Math score or through the Mathematics Placement Examination (MPE), the results of which will be made available to the student's advisor. The MPE is given daily in Walden Hall when school is in session and during new student orientation programs.

MATH 101. General Supplemental Instruction I

1 Credit

Collaborative workshop for students enrolled in Intermediate Algebra. S/U Grading (S/U, Audit).

Corequisite(s): MATH 120.

MATH 102. General Supplemental Instruction II 1 Credit

Collaborative workshop for students enrolled in College Algebra. S/U Grading (S/U, Audit).

Corequisite(s): MATH 121G.

MATH 107. Topics in Mathematics

1-3 Credits

Topics to be announced in the Schedule of Classes. Maximum of 3 credits per semester. Total credit not to exceed 6 credits. Community Colleges only.

Prerequisite: consent of instructor.

MATH 111. Fundamentals of Elementary Mathematics I 3 Credits

Numbers and the four operations of arithmetic. Understanding and comparing multiple representations of numbers and operations, in particular how these representations build from whole numbers to integers to fractions and decimals. Applying properties of numbers and operations in contextual situations. Reasoning, communicating, and problem solving with numbers and operations. Applications to ratio, and connections with algebra. Taught primarily through student activities and investigations. Restricted to: EDUC,EPAR,E ED,ECED majors. **Prerequisite(s):** ENGL 111G and grade of C or better in MATH 120.

MATH 112G. Fundamentals of Elementary Math II 3 Credits

Geometry and measurement. Multiple approaches to solving problems and understanding concepts in geometry. Analyzing and constructing two- and three-dimensional shapes. Measurable attributes, including angle, length, area, and volume. Understanding and applying units and unit conversions. Transformations, congruence, and symmetry. Scale factor and similarity. Coordinate geometry and connections with algebra. Reasoning and communicating about geometric concepts. Taught primarily through student activities and investigations. **Prerequisite(s):** C or better in MATH 111.

MATH 120. Intermediate Algebra 3 Credits

Linear and algebraic functions as they arise in real world problems. Exponential and logarithmic functions. Equations and inequalities and their solutions considered symbolically, graphically and numerically. **Prerequisite:** adequate score on the Mathematics Placement Examination.

MATH 121G. College Algebra

3 Credits

Fundamental concepts of functions, including algebraic and graphical properties. Fitting functions to data. Finding zeroes and extreme values. Solving systems of equations.

Prerequisites: Adequate math placement score or C or better in MATH 120.

MATH 142G. Calculus for the Biological and Management Sciences 3 Credits (2+2P)

Review of functions. Derivatives, exponential and logarithmic functions, antiderivatives and indefinite integrals, basic ordinary differential equations and growth models, with an emphasis on applications. Includes a significant writing component. **Prerequisite(s):** C or better in MATH 121G.

MATH 190G. Trigonometry and Precalculus 4 Credits (3+2P)

Elementary functions used in the sciences with emphasis on trigonometric functions and their inverses. Polar coordinates. Complex numbers and Euler's formula. Analytic geometry and vectors.

Prerequisite: adequate score on Mathematics placement exam or a C or better in MATH 121G.

MATH 191G. Calculus and Analytic Geometry I 4 Credits

Limits and continuity, theory and computation of derivatives, applications of derivatives, extreme values, critical points, derivative tests, L'Hopital's Rule.

Prerequisite(s): C or better in MATH 190G.

MATH 192G. Calculus and Analytic Geometry II 4 Credits

Riemann sums, the definite integral, antiderivatives, fundamental theorems, techniques of integration, applications of integrals, improper integrals, Taylor polynomials, sequences and series, power series and Taylor series.

Prerequisite(s): C or better in MATH 191G.

MATH 192GH. Calculus and Analytic Geometry II Honors 4 Credits (3+1P)

A more advanced treatment of the material of MATH 192G with additional topics. Consent of Instructor required. Restricted to Las Cruces campus only.

MATH 200. Directed Study

1-3 Credits

May be repeated for a maximum of 6 credits. Graded S/U. **Prerequisite:** consent of the instructor.

MATH 210G. Mathematics Appreciation 3 Credits

Mathematics and its role in the development and maintenance of civilization.

Prerequisites: High school algebra, and an adequate score on the Mathematics Placement Examination.

MATH 215. Fundamentals of Elementary Mathematics III 3 Credits

Probability, statistics, ratios, and proportional relationships. Experimental and theoretical probability. Collecting, analyzing, and displaying data, including measurement data. Multiple approaches to solving problems involving proportional relationships, with connections to number and operation, geometry and measurement, and algebra. Understanding data in professional contexts of teaching. Taught primarily through student activities and investigations.

Prerequisite(s): C or better in MATH 112.

MATH 235. Calculus for the Technical Student I 3 Credits

Intuitive differential and integral calculus with applications to engineering.

Prerequisite: C or better in MATH 190G.

MATH 236. Calculus for the Technical Student II

A continuation and extension of the material in MATH 235. **Prerequisites:** C or better in MATH 235 or in MATH 192G.

MATH 279. Introduction to Higher Mathematics 3 Credits

Logic; sets, relations, and functions; introduction to mathematical proofs. **Prerequisite(s):** C- or better in MATH 192.

MATH 280. Introduction to Linear Algebra

3 Credits

Systems of equations, matrices, vector spaces and linear transformations. Applications to computer science. **Prerequisite(s):** Grade of C- or better in MATH 192G.

MATH 291G. Calculus and Analytic Geometry III 3 Credits

Vector algebra, directional derivatives, approximation, max-min problems, multiple integrals, applications, cylindrical and spherical coordinates, change of variables.

Prerequisite: grade of C or better in MATH 192G.

MGT-MANAGEMENT (MGT)

MGT 201. Introduction to Management 3 Credits

Covers the functioning and administration of different types of complex organizations. Concepts and theories of management and organizational behavior.

Prerequisite(s): Consent of Department.

MKTG-MARKETING (MKTG)

MKTG 180. Level 1, PGA's PGM Education Program (Part 1) 3 Credits

Level 1 Part 1 of the PGA PGM Education Program. Introduction to the Policies and Procedures of the PGA Golf Mgt. Program and the PGA of America. Students will complete the PGA Qualifying Level,Facility Management 1A (Tournament Ops A, Rules of Golf B, and Career Enhancement B), and the corresponding Work Experience Activities. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

MKTG 181. Level 1, PGA's PGM Education Program (Part 2) 3 Credits

Level 1 Part 2 of the PGA PGM Education Program. This class will focus on Teaching and Coaching 1, the corresponding PGA Work Experience Activities, and PGA Teaching Seminars. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

MKTG 203. Introduction to Marketing

3 Credits

Covers processes, functions and principles in the current marketing system. Includes role of marketing in the economy, types of markets, product development, distribution channels, pricing and promotion strategies, market research and management of the processes. Community Colleges only.

MKTG 280. Level 1, PGA's PGM Education Program (Part 3) 3 Credits

Level 1 Part 3 of the PGA PGM Education Program. This class will focus on Facility Management 1B (Business Planning A, Customer Relations A, Golf Car A, Merchandising A, Turfgrass A), Level 1 Checkpoint Exams, and the corresponding PGA Work Experience Activities. Students will also be required to provide an internship evaluation report. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

MKTG 281. Level 2, PGA's PGM Education Program (Part 1) 3 Credits

Level 2 Part 1 of the PGA PGM Education Program. This class will focus on Teaching and Coaching 2, Teaching and Coaching Seminars, and the corresponding PGA Work Experience Activities. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

MUS-MUSIC (MUS)

MUS 101G. An Introduction to Music

3 Credits

An introduction to music for the non-music major to encourage the enjoyment of listening to and understanding the world's great music from the past to the present.

MUS 102. Fundamentals of Music

3 Credits

Introduction to music notation, meter and rhythm, scales, intervals, triads, seventh chords, fundamentals of harmonic progression, and aural skills. For students with little or no music theory background. Traditional Grading with RR.

MUS 103. Ear Training I

1 Credit

To develop the ability to accurately hear, identify, sing and notate musical elements including rhythm, melody, intervals and harmony Traditional Grading with RR. Restricted to Las Cruces campus only.

Prerequisite(s): Passing the Theory Placement exam or making a C or better in MUS 102.

MUS 104. Ear Training II 1 Credit

To develop the ability to accurately hear, identify, sing and notate musical elements including rhythm, melody, intervals and harmony Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C- or better in MUS 103.

MUS 105. Music Theory I

3 Credits

Introduction to vocabulary and syntax of 4-voice 18th c. chorale music through study and harmonic analysis.

Prerequisite(s): Passing the Theory Placement exam or making a C or better in MUS 102.

MUS 106. Music Theory II

3 Credits

Expansion of vocabulary and syntax of 4-voice 18th c. chorale music through study, harmonic analysis, and part writing. **Prerequisite(s):** Grade of C or better in MUS 105.

MUS 121. Concert and Recital Laboratory 0.5 Credits

Serves as a resource and performance lab for all applied areas of musical study. Music majors are expected to perform during the weekly student recital and must attend a designated number of musical performances during the semester. May be repeated up to 4 credits. Restricted to: Music and Music Education majors. S/U Grading with RR. Restricted to Las Cruces campus only.

MUS 130. Applied Music

1-2 Credits

Private or group instruction for non-music majors, secondary instruments, and music majors preparing for 200-level applied music. May be taken for unlimited credit.

MUS 141. Vocal Training for Instrumental Music Majors 1 Credit

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. May be repeated up to 1 credits. Restricted to: M ED majors. Restricted to Las Cruces campus only.

MUS 145. Functional Piano I

2 Credits

Scales, chords, memorization. Harmonization of simple melodies with the ability to play simple melodies and rhythms. May be taken for unlimited credit. Restricted to music majors. No S/U option.

MUS 146. Functional Piano II

2 Credits

Scales, chords, memorization. Harmonization of simple melodies with the ability to play simple melodies and rhythms. May be taken for unlimited credit. Restricted to music majors. No S/U option. **Prerequisite:** MUS 145 or consent of instructor.

MUS 147. Functional Piano III

2 Credits

For music majors preparing for the Piano Proficiency Examination. May be taken for unlimited credit. Restricted to music majors. No S/U option. **Prerequisite:** MUS 146 or consent of instructor.

MUS 151. Philharmonic Orchestra 1 Credit

The University Philharmonic Orchestra is open to all students and performs a wide variety of standard orchestral literature. The orchestra performs each semester and the objectives include refining technique, stylistic characteristics, intonation, balance, bowings, color, rhythmic integrity and dynamics. May be repeated up to 10 credits. Restricted to Las Cruces campus only.

Prerequisite(s): by audition only.

MUS 160. University Singers

1 Credit

Select concert and touring choir of undergraduate and graduate students performing a cappella and accompanied choral literature. May be repeated up to 10 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** By audition only.

MUS 161. Concert Choir

1 Credit

Campus choir composed of both music and non-music majors. Emphasis on vocal techniques, sight-singing, and basics of choral musicianship. May be taken for unlimited credit.

MUS 162. Master Works Chorus

1 Credit

Combination campus and community chorus. This group will perform the major chorale compositions for orchestra and/or wind ensemble. May be taken for unlimited credit.

MUS 163. Jazz Ensembles

1 Credit

Performance ensemble that explore repertoire written for big band, including (but not limited to) dance band, swing, and contemporary compositions. May be repeated up to 10 credits. Restricted to Las Cruces campus only.

Prerequisite(s): By audition only.

MUS 164. Chamber Ensembles

1 Credit

Small groups of singers and/or instrumentalists that perform chamber music. May be repeated up to 16 credits. Restricted to Las Cruces campus only.

Prerequisite(s): by audition only.

MUS 170. Wind Symphony

1 Credit

This elite ensemble of 50 highly qualified graduate and undergraduate students performs a varied repertoire of the highest quality literature for winds. Members will also perform concerts of chamber winds literature each semester. This ensemble is dedicated to professional level performance while fostering the musical growth of its members. Conducted by the Director of Bands, this group serves as the flagship for the entire university bands program. May be repeated up to 10 credits. Restricted to Las Cruces campus only.

Prerequisite(s): By audition only.

MUS 171. Roadrunner Revue Pep Band 1 Credit

For both music and nonmusic majors. Opportunity to perform a variety of music in a showband setting. May be taken for unlimited credit. **Prerequisite:** by audition only; contact band office for date and time.

MUS 172. Marching Band 1 Credit

For both music and nonmusic majors. Opportunity to perform all varieties of music in a contemporary styled marching unit. May be taken for unlimited credit.

MUS 174. Percussion Ensemble 1 Credit

Study and performance of contemporary percussion ensemble literature. May be repeated up to 5 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** by audition only.

MUS 180. Symphonic Band

1 Credit

This is a select large ensemble, chosen by audition. It provides a challenging musical environment for skilled performers by programming repertoire that ranges from works for chamber winds, to standards of the wind band literature, to cutting edge literature. Conducted by the Associate Director of Bands, this ensemble is comprised of music majors and non-music majors alike and provides the less experienced student an opportunity to hone and refine performance skills. May be repeated up to 10 credits. Restricted to Las Cruces campus only.

Prerequisite(s): By audition only.

MUS 181. Campus Band

1 Credit

This is a non-auditioned ensemble designed to meet the needs of students from all majors across campus. Music majors are encouraged to enroll while performing on a secondary instrument. Marching band members are also encouraged to take the course to build skills and leadership. This ensemble provides an educational experience and serves as an outlet for students who wish to remain musically active in a less intense setting. May be repeated up to 10 credits. Restricted to Las Cruces campus only.

MUS 2016. History of Jazz in Popular Music: A Blending of Cultures 3 Credits

Jazz in popular music as it relates to music history and the development of world cultures.

MUS 202. An Introduction to World Music, Jazz and Music Research 3 Credits

Introduces world music and jazz within a historical and cultural context, considering significant musical figures, forms, genres, styles, and representative works. A major component will be the development of effective research and scholarly writing skills for the music major or minor. May be repeated up to 3 credits. Restricted to: Music majors and minors. majors. Restricted to Las Cruces campus only.

MUS 203. Ear Training III

1 Credit

Continuation of MUS 104, advanced sight singing, dictation. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C- or better in MUS 104.

MUS 204. Ear Training IV

1 Credit

Continuation of MUS 203, advanced sight singing, dictation. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C or better in MUS 203 and MUS 205.

MUS 205. Music Theory III

3 Credits

Analysis of Baroque and Classical Music. Vocabulary and syntax of 18th and 19th c. Western art music through study, chordal/formal analysis, and composition. Restricted to Las Cruces campus only. Prerequisite(s): Grade of C or better in MUS 106.

MUS 206. Music Theory IV

3 Credits

Analysis of Romantic, Post-Romantic, Impressionist, and Twelve-Tone Music. Vocabulary and syntax of late 19th and early 20th c. Western art music through study, micro/macro analysis, and composition. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C or better in MUS 205.

MUS 207. Music History and Literature: Antiquity thorugh Baroque 3 Credits

Surveys Western art music within a historical and cultural context, considering significant musical figures, forms, genres, styles, and representative works from antiguity through the end of the Barogue era. An additional emphasis will be given to effective research and scholarly writing skills. Restricted to: M ED, MUS majors.

Prerequisite(s): A grade of C- or better in MUS 103, 105, and 202.

MUS 230. Applied Music I

1-4 Credits

Individual instruction to develop technique, musicianship, performance and improvisational skills, as well as knowledge of significant repertoire. May be repeated up to 16 credits. Consent of Instructor required. Restricted to: Music and Music Education majors. Traditional Grading with RR. Restricted to Las Cruces campus only. Prerequisite(s): Audition.

MUS 250. Introduction to Music Education 2 Credits

Overview of the basic principals and practices of the music education profession in K-12 settings, emphasizing philosophy and history of music education, methodologies commonly utilized in school curricula, music in special education, classroom/rehearsal management and lesson planning. Explores many aspects of public school teaching through class discussions and directed observations. Restricted to Las Cruces campus only.

MUS 251. Opera Workshop

1 Credit

Study, translation, analysis, rehearsal and performance of opera. May be repeated up to 10 credits. Restricted to Las Cruces campus only. Prerequisite(s): by audition only.

MUS 260. Special Topics I

1-3 Credits

Emphasis on special areas of music; designed for highly motivated students. May be taken for unlimited credit.

MUS 261. Functional Piano IV

2 Credits

For music majors preparing for Piano Proficiency Examination. May be taken for unlimited credit. Restricted to music majors. No S/U option. Prerequisite: MUS 147 or consent of instructor.

MUS 262. Diction I

2 Credits

Introduction to the international phonetic alphabet, and its application to English, Italian, Spanish, and Latin song literature. Main campus only. Restricted to Las Cruces campus only.

MUS 263. Diction II 2 Credits

Advanced grammar and detailed study of Italian, German and French diction and song literature for vocal students. Restricted to music majors. Main campus only.

Prerequisite: MUS 262 or consent of instructor.

MUS 273. Introduction to Music Technology 1 Credit

Introduction to uses of technology in musical settings. Practical applications in digital music notation, MIDI sequencing, and digital audio recording. Restricted to: MUS,M ED majors. Traditional Grading with RR. Restricted to Las Cruces campus only.

Prerequisite(s): MUS 105.

NA - NURSING ASSISTANT (NA)

NA 101. Nursing Assistant Theory and Lab 6 Credits (5+3P)

Nurse aide skills with emphasis on a bio-psychosocial-cultural approach to client care. Practice of these skills is provided in the laboratory as well as at a clinical site. Successful completion of the course prepares and qualifies the student to take the NACES certification examination. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): (CCDR 110N with C or better OR appropriate placement score) and (CCDE 110N with C or better OR appropriate placement score) and (CCDM 103N with C or better OR appropriate placement score).

NA 104. Nursing Assistant Fundamentals 3 Credits

This course prepares students for employment as a Nursing Assistant in a Long Term Care Facility. Theory and basic nursing care skills will be taught with an emphasis being placed on the psychosocial-cultural approach to client care. Students will learn communication skills, basic anatomy and physiology, growth and development, infection control, body mechanics, basic nutrition, client/resident elimination needs, the client/resident unit, vital signs, range of motion exercises, bed making, rehabilitation and restorative care, client admission and discharge, common health problems, dealing with death and dying, and basic medical terminology. NA 104 and NA 104L (laboratory) must be successfully completed with a C- or better in order to continue to NA 105 Nursing Assistant Clinical. NA 105 must also be successfully completed with a C- or better to be eligible to take the state certification competency examination. Attendance is required to meet the federal requirements for training hours and content prior to direct contact with a patient/resident and the state competency examination. Restricted to Community Colleges campuses only.

Prerequisite(s): Test out of all CCDE and CCDR courses and eligible to take ENGL 111G.

Corequisite(s): NA 104 L.

NA 104 L. Nursing Assistant Fundamentals Lab 1 Credit

This course prepares students for employment as a Nursing Assistant in a Long Term Care Facility. Students will learn and demonstrate personal care skills including bathing, grooming, dressing, toileting, assisting with eating and hydration, skin care, transfers and positioning. Students will also learn and demonstrate the use of assistive devices, and how to maintain resident safety, dignity and privacy. NA 104 & NA 104L must be successfully completed with a C- or greater in order to continue to NA 105 Clinical. NA 105 must be successfully completed with a C- or greater to be eligible to take the state certification competency examination. **Prerequisite(s)/Corequisite(s):** NA 104. Prerequisite(s): English COMPASS score of 35 or greater or CCDE 110N, and reading COMPASS score of 55 or greater or CCDR 105N. Restricted to Community Colleges campuses only.

NA 105. Nursing Assistant Clinicals 4 Credits (3+3P)

Extension of basic fundamentals of personal care, including theory, skills and clinical experience leading to the certified Nursing Assistant Examination at the conclusion of the semester. Continuation of NA 104. Requires a C or better to pass. Restricted to: Community Colleges only. **Prerequisite(s):** C or better in NA 104 or consent of instructor.

NA 109. Phlebotomist Basic 4 Credits (2+4P)

This course provides the latest information, techniques, skills, and equipment for blood and specimen collection based on the standards of the Clinical and Laboratory Standards Institute, Needlestick Prevention Act, Joint Commission 2008 National Patient Safety Goals, OSHA and CDC. An advanced skills lab is included in the course to provide a "hands-on" practice experience and a 30 hour practicum in a supervised work environment collecting blood and specimens on actual patients for laboratory tests. Attendance is mandatory. Prepares students for employment as a phlebotomist in health care settings. Requires a "C" or better to pass. Upon successful completion of the course, student has the opportunity to test for National Healthcareer Certification. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): BIOL 154 or BIOL 226. Restricted to Community Colleges campuses only.

NA 110. Electrocardiogram Technician Basic 4 Credits (3+3P)

Prepares students for employment as an Electrocardiogram Technician. Includes basic theory of the cardiovascular system, cardiac rhythm interpretation, 12 lead ECG lead placement, and ECG equipment trouble shooting. The course includes an advanced skills laboratory for "handson" practice and 16 hours of supervised clinical in the work environment assisting with ECG testing. Attendance is mandatory. Course requires a grade of "C" or better to pass. Upon successful completion of course, student has the opportunity to test for National Healthcareer Certification. Restricted to Community Colleges campuses only. **Prerequisite(s):** BIOL 154 OR BIOL 225 & BIOL 226.

NA 111. Alzheimer/Dementia Care Focus 3 Credits

Students will learn respectful care of Alzheimer/Dementia persons while ensuring their dignity, maximizing safe independence focusing on strengths and abilities. Pre/

Prerequisite(s)/Corequisite(s): NA 104 or NA 101. Restricted to: Community Colleges only.

NA 115. Phlebotomist Technician 6 Credits (3+6P)

Basic theory and skills of phlebotomy following OSHA and Center for Disease Control guidelines. Prepares students for the requirements of testing for the ASCP certification exam and employment in a healthcare organization as a phlebotomist in licensed settings. Laboratory hours include infection control skills & practice, patient assessment & teaching, and practice in venipuncture. Clinical time includes clinical laboratory processes and operations, patient assessment, venipuncture, and exposure to clinical policies and procedures. Upon successful completion students are workforce ready.

Prerequisite(s)/Corequisite(s): OEEM 101. Restricted to Community Colleges campuses only.

NA 204. Patient Care Technician

4 Credits (3+3P)

This course will prepare Certified Nursing Assistants (CNAs) to work in the acute care setting through an expansion of their existing basic skill set. Students will acquire expanded acute care skills, critical thinking skills, and knowledge in caring for patients of all ages. Currently CNA certified. Restricted to Community Colleges campuses only. **Prerequisite(s):** (NA 104, NA 105, NA 109, NA 110, AHS 120, and (BIOL 154 or (BIOL 225 & BIOL 226)). **Carequisite(s):** NA 205

Corequisite(s): NA 205.

NA 205. Patient Care Technicians Practicum 4 Credits (1+9P)

This course will prepare Certified Nursing Assistants (CNAs) to work in the acute care setting through an expansion of their existing basic skill set. Students will acquire expanded acute care skills, critical thinking skills, and knowledge in caring for patients of all ages. Students will go to acute care settings to practice newly acquired skills. Must have a "C" or better to pass. Restricted to Community Colleges campuses only. **Prerequisite(s):** (NA 104, NA 105, NA 109, NA 110, AHS 120, & (BIOL 154 or (BIOL 225 & BIOL 226))) Currently CNA Certified. **Corequisite(s):** NA 204.

NA 212. Medical Assistant Capstone Course 5 Credits (4+3P)

This course provides the student with entry-level theory and limited "hands-on" training in basic and routine clinical office tasks. The course will equip the Medical Assistant (MA) student with the competencies required to perform in a medical office under the direct supervision of a physician. The graduate will be able to assist the physician with physical exams, ECGs, phlebotomy, and minor surgical procedures. May be repeated up to 5 credits. CNA Certification within the last 5 years. **Prerequisite(s):** NA 105, NA 110, NA 109, AHS 120, BIOL 154, HIT 110, BOT 208, HIT 228, HIT 248, HIT 258.

NA 214. Medical Assistant Practicum

6 Credits (1+6P)

This course is the practicum for NA 212 Medical Assistant Fundamentals Capstone Course. Students will prepare for a career as a medical assistant in medical offices and clinics. During practicum students will observe and participate in 180 hours in a supervised work environment using knowledge and skills learned in NA 212. This course includes weekly post-practicum conferences with the instructor. The student will be evaluated by both the employer and the instructor. Requires a "C" or better to pass. Upon successful completion the student may be eligible to test for National Certification. May be repeated up to 6 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): NA 212. Prerequisite(s): NA 105, NA 110, NA 109, AHS 120, BIOL 154, HIT 110, BOT 208, HIT 228, HIT 248, HIT 258. CNA Certified within the last 5 years. Restricted to Community Colleges campuses only.

NAV-NAVAJO (NAV)

NAV 101. Introduction to Navajo Studies

3 Credits

Covers geography, demography, institutions of modern Navajo society with historical overview. Restricted to: Community Colleges only.

NAV 111. Elementary Navajo I

4 Credits

Navajo for beginners with emphasis on speaking skills. **Prerequisite:** not open to Navajo-speaking students except by consent of instructor.

NURS-NURSING (NURS)

NURS 120. Introduction to Pharmacology 3 Credits

General principles of pharmacology including methods of administration, effect on the body, interactions with other drugs, and classification of drugs. Focus on the health care provider's role in safe pharmacologic intervention. May be repeated up to 3 credits. Crosslisted with: HIT 120. Restricted to Community Colleges campuses only.

NURS 130. Foundations of Pharmacology 3 Credits

This course provides the nursing student with an introduction to the foundations of pharmacology including: science of drug action, principles of medication administration, accurate calculation of drug doses, medication therapy across the lifespan, application of medications to treat health alterations, normal and adverse responses by the client to medication therapy, medication safety, medication regulation, national patient safety goals, and appropriate nursing interventions to achieve the desired goals of medication therapy. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only. **Prerequisite(s):** Admission into the Nursing Program.

Corequisite(s): NURS 147 & NURS 149.

NURS 134. Foundation of Nursing Skills and Assessment 3 Credits (1+6P)

This course provides nursing students with introductory nursing knowledge related to performance of nursing skills and assessment including: techniques of fundamental nursing care, basic and intermediate nursing skills, and foundational physical assessment techniques associated with care across the lifespan. Open to students who have been accepted into the nursing program. Restricted to: NUR majors. Restricted to: Community Colleges only.

Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 136 & NURS 137 or permission of the Program Director.

NURS 136. Foundations of Nursing Practice 6 Credits (4+6P)

This course will introduce the nursing student to foundational theoretical concepts of professional nursing practice, the nursing process, and foundational nursing skills. It includes developmental concepts related to clients across the lifespan. Clinical experiences in the simulation lab, long-term care, the community, and rehabilitation settings will provide the student with the opportunity to apply learned skills to provide total care to meet needs of one adult client and to develop care planning skills related to actual problems. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only. **Prerequisite(s):** Admission into the Nursing Program.

Corequisite(s): NURS 134, NURS 136 lab & NURS 137 or permission of the Program Director.

NURS 137. Care of Geriatric Patient 3 Credits

This course will introduce the nursing student to foundational concepts of age-appropriate/specific care of the older adult who represents the largest population of individuals placing demands on the healthcare system. It includes basic and complex concepts and issues related to care of the older client across the care continuum, provision of costeffective care in a resource sparse environment. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NURS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Admission into the nursing program. **Corequisite(s):** NURS 134 & NURS 136 or permission of the Program Director.

NURS 140. Pathophysiology for Allied Health Professionals 3 Credits

Introduction to the nature of disease and its effect on body systems. Deals with the disease processes affecting the human body via an integrated approach to specific disease entities. Includes a review of normal functions of the appropriate body systems. Diseases are studied in relationship to their etiology, pathology, physical signs and symptoms, diagnostic procedures, complication, treatment modalities, and prognosis. Restricted to Allied Health and Health Information Technology majors. Restricted to:Community Colleges only.

NURS 146. Common Health Deviations 6 Credits (4+6P)

Common health deviations and the manner by which they alter various body functions are explored. The role of the licensed practical nurse in assisting clients with common health deviations is presented. Ethical and legal implications and the role of the practical nurse are also considered. The licensed practical nursing student will utilize the application of knowledge to client care situation both in the subacute and acute care settings. The nursing process is presented as guide for coordinating client care. Grade of C or better. May be repeated up to 6 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only. Prerequisite(s): NURS 153, NURS 156, NURS 154, NURS 157, and NURS 210 or consent of program director.

NURS 147. Adult Health I 6 Credits (4+6P)

This course focuses on application of the nursing process and theoretical concepts of care for adults with commonly occurring health problems. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to continue development of: prioritization skills, proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, care planning skills related to patient actual, psychosocial, and potential problems in the delivery of total nursing care to meet needs of one adult client. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NUR majors. Restricted to Community Colleges campuses only. Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 130, NURS 147 lab, & NURS 149, or permission of the Program Director.

NURS 149. Mental Health Nursing

3 Credits (2+3P)

This course will allow the nursing student to develop skills necessary to provide nursing care for clients with mental health problems in various health care settings including: common mental health disorders, psychosocial dysfunction, psychosocial safety/substance abuse issues, violence, suicide, restraints, developmental age related pathophysiology, psychopharmacology, cultural/religious considerations, grief/loss, promotion of mental health, and therapeutic communication. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to develop ability to develop: proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, care planning skills related to patient actual, psychosocial, and potential problems in the delivery of total nursing care to meet needs of one client across the life span with acute/chronic mental health needs. Students must be concurrently enrolled in both the lecture and lab sections of this course. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 130, NURS 147, & NURS 149L, or permission of the Program Director.

NURS 150. Medical Terminology **3 Credits**

Understanding of the basic elements of medical words. Use of medical abbreviations. Same as OEHO 120 and BOT 150. May be repeated up to 3 credits. Crosslisted with: BOT 150, AHS 120 and HIT 150.

NURS 153. Medication and Dosage Calculation 1 Credit

Techniques of dosage calculation for medication and fluid administration. RR applicable.

Prerequisite(s): Meet NMSU basic skills requirement in mathematics or consent of program director.

Corequisite(s): NURS156 and NURS154.

NURS 154. Physical Assessment 2 Credits

Beginning techniques of physical assessment by systems will be presented using the nursing process as a guide for providing safe client centered care throughout the life span. Grade of C or better is required. May be repeated up to 2 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only.

Prerequisite(s): BIOL 154 or BIOL 225 or consent of program director. Corequisite(s): NURS 153, NURS 156.

NURS 155. Special Topics

1-4 Credits

Specific subjects to be announced in the Schedule of Classes.

NURS 156. Basic Nursing Theory and Practice 6 Credits (4+6P)

Introduction to the nursing profession and the beginning skills of nursing practice as it relates to normalcy. The nursing process is presented as a means of guiding the student in providing safe client centered care. Ethical and legal aspects of nursing practice are also included. Basic clinical nursing skills will be presented and practiced in the nursing lab. The student will perform these skills with clients in an actual health care setting. May be repeated up to 6 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only.

Prerequisite(s): Consent of Program Director. Corequisite(s): NURS 153, NURS 154.

NURS 157. Maternal/Child Health Deviations 8 Credits (6+6P)

The concepts and principles of nursing care of the family from conception to adolescence. Utilizing the nursing process, the student provides safe client centered care to diverse clients and families. Theoretical instruction is applied to client care situation. Students collaborate with clients, families and the interdisciplinary team in meeting health care needs. Experiences may occur in any of the regional health care facilities. Grade of C or better required. May be repeated up to 8 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 156, NURS 153, and NURS 154 or consent of program director.

Corequisite(s): NURS 210.

NURS 201. Special Topics

1-4 Credits

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 10 credits. Restricted to: Community Colleges only.

Prerequisite: admission to the nursing program.

NURS 209. Independent Study

1-4 Credits

Individual studies to meet identified student needs. May be repeated for a maximum of 10 credits. Restricted to: Community Colleges only. Prerequisite: admission to the nursing program.

NURS 210. Pharmacological Requisites of the Childbearing Family 1 Credit

Basic concepts of pharmacology including pharmacokinetics,

pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care will be discussed focusing on medications commonly utilized with the childbearing family. Medication classes to be discussed include labor and delivery, analgesic, vitamins, respiratory, gynecological, endocrine, and anti-microbial/anti-infective drugs. Grade of C or better required. Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 225 and BIOL 226 or consent of instructor and NURS 153, NURS 154 and NURS 156.

Corequisite(s): NURS 157.

NURS 211. Pharmacological Requisites of Simple Health Deviations 1 Credit

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care are addressed focusing on medications related to the psychiatric, gastrointestinal, musculoskeletal, gynecological, hematological, and anti-neoplastic client. Grade of C or better required. Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 225 and BIOL 226 or consent of instructor and NURS 153,NURS 154, NURS 156, NURS 157 and NURS 210. Corequisite(s): NURS 246 and NURS 258.

NURS 212. Pharmacological Requisites of Complex Health Deviations 1 Credit

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care is examined focusing on medications related to complex health deviations. Drug classes to be discussed include cardiovascular, renal, endocrine, and neurological. Grade of C or better required. Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 225 and BIOL 226 or consent of instructor, and NURS 153, NURS 154, NURS 156, NURS 157, NURS 246, NURS 258, NURS 210 and NURS 211.

Corequisite(s): NURS 256 and NURS 260.

NURS 224. Maternal Child Nursing

5 Credits (4+3P)

This course provides the intermediate nursing student with an in-depth review of care of the childbearing woman, family structures and roles, and nursing care of the child from birth through adolescence. Emphasis includes the care of pre-partum, intra-partum and postpartum clients, the neonate and health deviations in pediatric clients. Clinical experiences in the simulation lab, the community, and acute care settings will provide the student with the opportunity to apply learned skills to provide total care to meet needs of up to two adult, neonatal, or pediatric clients and to apply care planning skills related to actual, psychosocial and potential problems. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 224 lab, NURS 235, & NURS 236, or permission of the Program Director.

NURS 226. Adult Health II 6 Credits (4+6P)

This course focuses on application of nursing process and theoretical concepts of care for adults with complex health alterations. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to apply: prioritization skills, maintain proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, and care planning skills related to patient actual, psychosocial, and potential problems in the delivery of nursing care to meet needs of three adult clients. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Prerequisite(s): Admission into the Nursing Program. **Corequisite(s):** NURS 224, NURS 226 lab, & NURS 235 or permission of the Program Director.

NURS 234. Community Health Nursing 1 Credit

This course provides an introduction to community health, focusing on health care systems, epidemiology, and nursing care of individuals, families and aggregates of varied cultural backgrounds. Primary, secondary, and tertiary prevention are emphasized. Diverse roles of the community health nurse are examined. Educational theories and their applications are explored. Restricted to: Community Colleges only.

NURS 235. Nursing Leadership and Management 1 Credit

This course introduces the intermediate nursing student to professional practice principles of nursing leadership and management including: health policy and politics, fiscal management & budgeting, conflict management, decision making, interdisciplinary practice, working with teams, roles in disaster planning and management, application of standards of care to risk management, organization of care delivery, health care systems, processes, and practice environments. May be repeated up to 1 credits. Restricted to: NUR majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 224,NURS 226 & Clinical Or Permission of the Program Director.

NURS 236. Nursing Preceptorship - Adult Health III 6 Credits (2+12P)

This course is the final course involving care of the patient with acute or chronic illness. It focuses on care of patients with complex or multisystem problems allowing the graduating nursing student to discuss and apply all the skills learned in previous nursing courses. After successfully passing the HESI exam, students have clinical practice with preceptor in various health care settings. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to: organize care of a group of clients, maintain proficiency in performance of nursing skills, collaborate with clients, families, peers and health care team members, and support care planning skills related to patient actual, psychosocial, and potential problems in the delivery of nursing care to meet needs of the preceptors group of clients. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program and have successfully completed all level 1, 2 and 3 nursing courses may enroll in this course. Clinical may include inpatient or outpatient care, days, evenings, nights, or weekend experiences. Students are required to work the preceptors assigned schedule. Restricted to: NUR majors. Restricted to: Community Colleges only.

Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 201, NCLEX Review or permission of the Program Director.

NURS 246. Health Deviations I 7 Credits (4+9P)

Introduction to medical/surgical clients, whose health care needs are routine and predictable. Focus is on simple health deviations, including concepts relative to health promotion and maintenance. The nursing process is utilized to provide evidenced based, safe client centered care. Students are expected to apply clinical judgment, communicate and collaborate with clients and the interdisciplinary team in providing care for a group of two to three clients. Grade of C or better required. May be repeated up to 7 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, NURS 156, NURS 154, NURS 157 and NURS 210 or consent of program director. Corequisite(s): NURS 211,NURS 258.

NURS 256. Health Deviations II

8 Credits (4+12P)

Concepts and principles applied to clients with complex health deviations. Building upon knowledge gained in NURS 246, focus will be on acutely ill clients. The nursing process continues to serve as a guide to provide safe, client centered care. The student collaborates with the interdisciplinary team in all aspects of client care. Student experiences the role of the staff nurse under the guidance and direction of the nursing instructor. Grade of C or better required. May be repeated up to 8 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only. **Prerequisite(s):** NURS 153, 154, 156, 157, 210, 211, 246, and 258 or consent of program director.

Corequisite(s): NURS 212, NURS 260.

NURS 258. Psychosocial Requisites: A Deficit Approach 3 Credits (2+3P)

Nursing theory and practice as it relates to the care of the client experiencing psychosocial health deviations. The role of the nurse is discussed along with the ethical and legal aspects of care for the client with psychosocial disorders. Building upon the communication skills of listening and responding, the student develops the therapeutic skills of interpersonal relationships. Grade of C or better is required. May be repeated up to 3 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, 154, 156, 157, 210, and 246 or consent of program director.

Corequisite(s): NURS 211,NURS 246.

NURS 260. Management of Patients with Health Deviations 2 Credits (2)

A capstone course to the nursing program in which principles in management and delegation to less prepared personnel is explored. A review of leadership roles, legal issues, quality initiatives, informatics and scope of practice is included. Preparation for the NCLEX is an integral portion of the course. Grade of C or better is required. May be repeated up to 2 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, 154, 156, 157, 210, 211, 246, and 258 or consent of program director.

Corequisite(s): NURS 212, NURS 256.

NURS 275. Holistic Approach to Pharmacotherapeutic Interventions II 2 Credits

Level II. Holistic approach to the study of basic pharmacology concepts. Includes pharmacodynamic phases of drug interaction. Nursing process is discussed in relation to medication administration. Special emphasis on the role of the nurse and basic concepts related to specific drug categories. Restricted to majors. Community Colleges only.

Prerequisite: NURS 185.

Corequisites: NURS 280 and NURS 283.

NURS 284 L. Practicum: Preceptorship 3 Credits

Clinical experience in a leadership role in specific practice areas enhancing the transition from student to practitioner utilizing the holistic approach to wellness. Restricted to: Community Colleges only. **Prerequisite(s):** NURS 182.

Corequisite(s): NURS 282L.

NURS 293. Introduction to Nursing Concepts 3 Credits

This course introduces the nursing student to the concepts of nursing practice and conceptual learning. Same as NMNEC course no.: NMNEC101. May be repeated up to 3 credits. Restricted to: BSN,BSNP,BSNR majors. Restricted to Las Cruces campus only. **Prerequisite(s):** Admission to Nursing Program. **Corequisite(s):** NURS 294,NURS 362.

NURS 294. Principles of Nursing Practice 4 Credits

This course introduces the nursing student to the application of concepts through clinical skills in seminar, laboratory, and/or clinical settings. Principles of communication, assessments, safety, and interventions including accurate calculation, measurement, and administration of medications will be included. Same as NMNEC course no.: NMNEC102. May be repeated up to 4 credits. Restricted to: BSN, BSNP, BSNR majors. Restricted to Las Cruces campus only.

Prerequisite(s): Admission to the nursing program. Corequisite(s): NURS 293,NURS 362.

OEBM-BIOMEDICAL TECHNOLOGY (OEBM)

OEBM 140. Applied Human Biology for Biomedical Technology 3 Credits

Essential human biology, anatomy, physiology and medical terminology for biomedical equipment technicians. Focus on the vocabulary necessary for effective communication in the hospital environment as part of the health care team. Restricted to: Community Colleges only.

OEBM 141. Medical Electronics and Safety in Healthcare 3 Credits

Introduction to the biomedical equipment technology field. Operation of common biomedical equipment to include pressure and temperature systems, infusion devices, patient monitors, and other physiologic and patient systems. Hospital safety and health regulations explained. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEBM 140.

OEBM 200. Biomedical Internship

1-4 Credits (3-12P)

Practice working in industry as a biomedical electronics technologist. Students work on a variety of medical equipment and job tasks. An employer evaluation, student report, and a minimum of 100 work hours are required. May be repeated up to 8 credits. Consent of Instructor required. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEBM 140 and OEBM 141.

OEBM 210. Biomedical Clinical

4 Credits (1+9P)

Clinical experiences to include advanced biomedical equipment maintenance, inventory control, and medical facility and industry standards. Restricted to Biomedical majors. **Prerequisite(s):** OEBM 200.

OEBM 211. CBET Exam Preparation

1 Credit

An overview of the Certified Biomedical Equipment Technician exam. Topics include anatomy and physiology, electronics principles, safety issues, equipment operation, and equipment troubleshooting. **Prerequisite(s)/Corequisite(s):** OEBM 241 AND OEBM 240. Restricted to Community Colleges campuses only.

OEBM 240. Medical Imaging Systems 3 Credits

The fundamentals of diagnostic radiography equipment will be explored. Principles of an x-ray system will be explained including the x-ray generation, image formation and film processing. Focus will be on both safety and quality. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEBM 140.

OEBM 241. Advanced Medical Electronics 3 Credits (3+1P)

Advanced study in biomedical equipment to include cardiovascular, pulmonary, telemetry and other critical life support systems. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEBM 141.

OECS-COMPUTER TECHNOLOGY (OECS)

OECS 101. Computer Basics

1 Credit

Hands-on instruction to introduce computer use and commonly used software. Graded S/U.

OECS 105. Introduction to Information Technology 3 Credits

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communication, data analysis, information management and decisionmaking. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

OECS 110. Introduction to Power Point

1-3 Credits (1-3)

An introduction to Power Point software to develop business presentations. Includes concepts of basic presentation methods and graphic design principles. Students will create and deliver presentations using text, charts, digitized images, and sound. Restricted to Community Colleges campuses only.

OECS 125. Operating Systems

1-3 Credits

Installation, configuration and optimization of current operating systems. Restricted to: Community Colleges only.

OECS 128. Operating Systems Linux/Unix

3 Credits

Installation, configuration, and use of Linux/Unix operating system software and utilities including hardware management, file management, use of command line, and scripting. Restricted to: Community Colleges only.

OECS 140. Introduction to Game Production Industry 1-3 Credits (1-3)

Students explore the business behind game production, understanding how game companies are organized and funded, positions within the game industry, and what skills game producers need. Restricted to Community Colleges campuses only.

OECS 141. Introduction to Interactive Game Programming 1-3 Credits (1-3)

This introductory programming class reviews the basics of programming, including the object-oriented approach. Students will de-construct existing games, develop their own code, and gain an appreciation for coding strategies. May be repeated for a maximum of 6 credits. Restricted to Community Colleges campuses only.

OECS 145. Mobile Application Development 1-3 Credits (1-3)

Introduction to elements of mobile application coding including concepts, design strategies, tools needed to create, test and deploy applications for mobile devices. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

OECS 150. Visual Basic Programming

3-4 Credits (3-4)

Introduction to algorithmic problem-solving concepts, structured programming design-oriented application programing interface development. Solutions to problems are implemented using the Visual Basic programming language in the Windows environment, with connection to Access databases as applicable.

Prerequisite(s)/Corequisite(s): OECS 220. Restricted to Community Colleges campuses only.

OECS 155. Special Topics - Introductory Computer Technology 0.5-4 Credits (.5-4)

Topics to be announced in the Schedule of Classes. May be repeated up to 8 credits.

OECS 185. PC Maintenance and Repair I

1-3 Credits

Introduction to most common types of PC configurations, installations, and failures. This course will explore troubleshooting skills for maintaining and repairing common hardware and software related problems. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

OECS 192. C++ Programming I

3 Credits

Development of skills in programming using the C++ programming language. Restricted to: Community Colleges only.

OECS 195. Java Programming I

1-3 Credits

Developing of skills in programming using the Java programming language. Restricted to: Community Colleges only.

OECS 200. Accounting on Microcomputers

3 Credits

Fundamental accounting principles using popular microcomputer soft ware to include G/L, A/R, A/P, purchase order, billing, inventory, and forecasting modules.

Prerequisite: ACCT 221 or BOT 121.

OECS 203. UNIX Operating System

1-3 Credits

Introduction to the UNIX operating system using Telnet to access a remote UNIX system. Basic UNIX commands and file system concepts. **Prerequisite:** C S 110, BCIS 110 or OECS 105.

OECS 204. Linux Operating System

1-3 Credits

Install and configure the Linux operating system on X86 systems. Covers issues involved in maintaining operating system, networking, creating and managing users, and installing and updating software. General procedures for working with operating system includes maintaining disk space, preserving system security, and other related topics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

OECS 205. Advanced Operating Systems: Administration 3 Credits

Examines operating systems designed for PC, minicomputers and mainframes. Covers maintaining operating systems, creating and managing users, and installing and updating software. General procedures for working with operating systems will include maintaining disk space, preserving system security, providing mail services, among other topics. May be repeated for a maximum of 6 credits. **Prerequisite:** OECS 128.

OECS 207. Windows 0.5-3 Credits

Covers local installation, configuration of core local services, managing users, and the general local management and maintenance of Windows workstations. May be repeated up to 6 credits.

Prerequisite(s)/Corequisite(s): OECS 185. Prerequisite(s): . Restricted to Community Colleges campuses only.

OECS 208. Internet Applications

1-3 Credits

Survey of the Internet to include e-mail, file transfer, current search techniques, the World Wide Web and basic Web page development. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

OECS 209. Computer Graphic Arts

1-3 Credits

Basic graphics composition using computer programs to include editing and manipulating graphic images, clip-art, and printing of pictures. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes.

Prerequisite: OECS 105, C S 110, or OECS 101.

OECS 211. Word Processing Applications

1-3 Credits

Basic word processing to include composing, editing, formatting, and printing of documents. May be repeated under different subtitles listed in the Schedule of Classes for a maximum of 6 credits. **Prerequisites:** C S 110, BCIS 110 or OECS 105.

OECS 213. Image Processing

1 Credit

Introduction to digital imaging acquisition and editing. Use of digital cameras and computer graphic software for business and personal use. Graded S/U.

Prerequisites: C S 110, BCIS 110 or OECS 105.

OECS 214. Creating a Web Page

1 Credit

Introduction to creating Web pages for business and personal use. Graded S/U.

Prerequisites: C S 110, BCIS 110 or OECS 105.

OECS 215. Spreadsheet Applications

1-3 Credits

Use of spreadsheets to include graphics and business applications. May be repeated for a maximum of 6 credits.

Prerequisites: C S 110, BCIS 110 or OECS 105.

OECS 216. Programming for the Web

3 Credits

Designing web-based applications using appropriate programming language(s) such as, but not limited to HTML, PHP, MySQL, SQL, Java, Perl, C or C++. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): One semester of any programming course.

OECS 220. Database Application and Design 1-3 Credits

Creating, sorting, and searching of single and multifile databases to include report generation and programming database commands. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes. Restricted to: Community Colleges only.

Prerequisite(s): C S 110 OR BCIS 110 OR E T 120 OR E T 122 OR OECS 105.

OECS 221. Internship I

1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

OECS 222. Internship II

1-3 Credits

Continuation of OECS 221. Each credit requires specified number of hours of on-the-job work experience. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. **Prerequisite(s):** OECS 221 and consent of instructor.

OECS 227. Computer Applications for Technicians 3 Credits

Computer applications for service technicians in various disciplines. Hardware and software applications explored. Includes operating systems, high level programming, and networking hardware and software.

OECS 230. Data Communications and Networks I 1-3 Credits

Definition of data communication; survey of hardware applications and teleprocessor software; examination and design of networks. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 185.

OECS 231. Data Communications and Networks II

1-3 Credits

Installation and application of popular microcomputer network software. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 230.

OECS 232. Implementing and Supporting Networks I 3 Credits

Knowledge and skills relating to post-installation and day-to-day administration tasks in a single-domain or multiple-domain network. **Prerequisite:** OECS 230 or OECS 261.

OECS 234. Linux Server

3-4 Credits (3-4)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Linux Server(s). It provides in-depth, hands-on training for planning, implementation, management and support of Linux networking services. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): OECS 204. Restricted to: OECS majors. Restricted to Community Colleges campuses only.

OECS 235. Structured Query Language (SQL)

1-3 Credits

Installation, configuration, administration, and troubleshooting of SQL client/server database management system. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): OECS 220. Restricted to Community Colleges campuses only.

OECS 237. Windows Server 3-4 Credits (3-4)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Microsoft Windows Server Active Directory Domain Services in medium to large businesses. It provides in-depth, hands-on training for Information Technology (IT) professionals responsible for the planning, implementation, management, and support of Windows Active Directory services. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OECS 207. Restricted to Community Colleges campuses only.

OECS 245. Game Programming I

3 Credits

Development of programming skills for games and animation using current programming languages and tools. May be repeated for a maximum of 6 credits.

Prerequisite: consent of instructor.

OECS 246. Game Programming II

3 Credits

Continuation of OECS 245. May be repeated for a maximum of 6 credits. **Prerequisite:** OECS 245.

OECS 250. Systems Analysis and Design I

3 Credits

Analysis, configuration, design and testing of organizations' work flow as it relates to hardware, software, data, procedures and personnel. Systems Life Cycle approach matching end users' needs to feasible financial, technical and operational solutions. Restricted to Community Colleges

campuses only. Prerequisite(s): OECS 220.

OECS 255. Special Topics

1-4 Credits

Topics to be announced in the Schedule of Classes.

OECS 260. Hypertext Markup Language (HTML)

1-3 Credits

Coverage of HTML as used for web-page development for Internet and Intranet. Text manipulation, graphics, hypertext links, lists, and tables. May be repeated for a maximum or 3 credits. **Prerequisite:** C S 110, BCIS 110 or OECS 105.

OECS 261. Introduction to Networks 3-4 Credits (3-4)

Introduction to networking principles including the practical and conceptual skills for understanding basic networking, planning and designing networks, implementing IP addressing schemes, examining the OSI and TCP/IP layers, and performing basic configurations for routers and switches. Aligns to the first course of the Cisco Networking Academy CCNA curriculum. Restricted to Community Colleges campuses only.

OECS 262. Essentials of Routing and Switching 3-4 Credits (3-4)

Examination of the architecture, components, and operations of routers and switches in a small network. Student will learn how to configure, verify and troubleshoot: routers and switches, static routing, default routing, VLANs, and ACLs. Aligns to the second course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits. **Prerequisite(s)/Corequisite(s):** OECS 261. Restricted to Community Colleges campuses only.

OECS 263. Network Fundamentals

3-4 Credits (3-4)

Fundamentals of networking architecture, components, and operations including practical and conceptual skills using routers and switches. Student will learn how to configure, verify and troubleshoot static routing, default routing, VLANs, and ACLs. This course aligns to the third course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OECS 262. Restricted to Community Colleges campuses only.

OECS 264. Network Routing Protocols

3-4 Credits (3-4)

Fundamentals of routing protocols for troubleshooting advanced network operations. Covers common networking issues such as RIP, OSPF, and EIGRP for IPv4 and IPv6 networks. This course aligns to the fourth course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OECS 263. Restricted to Community Colleges campuses only.

OECS 269. Network Security

3-4 Credits (3-4)

Fundamentals of design and implementation of network security solutions that will reduce the risk of system vulnerability. May be repeated up to 8 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 204 or OECS 207 or OECS 261 or consent of instructor.

OECS 275. PC Maintenance and Repair II

1-3 Credits

Continuation of OECS 185. May be repeated up to 6 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** OECS 185.

OECS 280. Desktop Publishing I 3 Credits

Design and production of publication materials to fill the needs of business communities, using a microcomputer. May be repeated for a maximum of 6 credits. Same as BOT 280.

Prerequisites: either BCIS 110, C S 110, OECS 105.

OECS 290. Computer Technology Capstone 1-3 Credits

Refines skills learned in the OECS program. Culminates in a review and practice of advanced software applications. May be repeated up to 3 credits. Restricted to: OECS & OECT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): (OECS 125, OECS 128, OECS 207, OR OECS 203) AND (OECS 185 OR E T 283).

OECS 299. Independent Study

1-3 Credits

Specific subjects to be determined based on need. Restricted to: Community Colleges only.

OEEM- PARAMEDIC (OEEM)

OEEM 101. CPR for the Health Care Professional

1 Credit

Students learn identification and response to airway and circulation emergencies, including use of a SAED and accessing the EMS system. This course is taught using the American Heart Association guidelines for course completion. Required: grade of C or better.

OEEM 103. Heartsaver First Aid/CPR 1 Credit

Students learn how to identify and respond to airway, circulation and basic first aid emergencies, to include using a SAED and accessing the EMS system. This course is intended for students who are not Allied Health Majors and utilizes the American Heart Association guidelines for course completion. Restricted to: Community Colleges only.

OEEM 106. Advanced First Aid

2 Credits

Theory and advanced first aid skills taught emphasizing recognition and providing care for injury or sudden illness until professional medical help arrives. Course meets and/or exceeds the Red Cross or National Safety Council standards.

Corequisite: OEEM 101 or consent of instructor.

OEEM 115. First Responder Prehospital Professional 3 Credits (2+3P)

Provides training in prehospital medical and traumatic emergencies. Requires a C or better to pass. Restricted to majors. **Prerequisite:** consent of instructor.

Corequisite: OEEM 101.

OEEM 116. Emergency Medical Technician Bridge 5 Credits (3+6P)

Enhanced skill instruction and didactic integration designed to meet the requirements for an EMT-Basic certificate. Requires a "C" or better to pass. May be repeated up to 5 credits. Consent of Instructor required. **Corequisite(s):** OEEM 121.

Prerequisite(s)/Corequisite(s): OEEM 153. Prerequisite(s): OEEM 101, OEEM 115. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

OEEM 120. Emergency Medical Technician Basic 6 Credits

EMT-Basic skills to include care of soft tissue and muscular/skeletal injuries, circulatory, nervous, general medical and respiratory emergencies. Requires a "C" or better to pass. May be repeated up to 6 credits. Consent of Instructor required.

Corequisite(s): OEEM 101,OEEM 120L,OEEM 121.

Prerequisite(s)/Corequisite(s): OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

OEEM 120 L. Emergency Medical Technician Basic Lab 2 Credits

EMT-Basic skills development with emphasis on assessment, skills competency and team-work in patient care in the prehospital setting. May be repeated up to 2 credits.

Corequisite(s): OEEM 101, OEEM 120, OEEM 121.

Prerequisite(s)/Corequisite(s): OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

OEEM 121. Emergency Medical Technician Basic Field/Clinical 1 Credit

Covers the patient care experience provided through assigned shifts in the hospital and/or ambulance setting. Requires a "C" or better to pass. May be repeated up to 1 credits. Consent of Instructor required. **Prerequisite(s)/Corequisite(s):** OEEM 101, OEEM 120, OEEM 120L OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

OEEM 122. Emergency Medical Technician Basic Advanced Field/ Internship

2 Credits

Expanded patient care experience provided through assigned shifts in the hospital and/or ambulance setting. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Current EMT-basic license and consent of instructor.

OEEM 150. Emergency Medical Technician Intermediate 5 Credits

Theory of the roles, responsibilities and scope of practice of the EMT-Intermediate. Assessment and management of respiratory, cardiac, trauma, environmental, behavior, reproduction, and childhood emergencies. May be repeated up to 5 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Current EMT-basic license, pretest and consent of instructor.

OEEM 150 L. Emergency Medical Technician Intermediate Lab 2 Credits

EMT-Intermediate skills development with an emphasis on assessment, skills competency, and team work in patient care in the prehospital setting. Requires a C or better to pass.

Prerequisite(s)/Corequisite(s): OEEM 150,0EEM 151. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

OEEM 151. Emergency Medical Technician Intermediate Field/Clinical 2 Credits

Patient care experience provided through assigned shifts in the hospital and/or ambulance setting.

Prerequisite(s)/Corequisite(s): OEEM 150, OEEM 150 L. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

OEEM 153. Introduction to Anatomy and Physiology for the EMS Provider 3 Credits

To properly assess and manage a patient, a prehospital provider must have a solid foundation in human anatomy and physiology. This course provides a systematic approach to building this foundation. Grade of "C" or better is required to pass the course. Consent of Instructor required. Restricted to Community Colleges campuses only.

OEEM 155. Special Topics

1-6 Credits

Specific topics to be listed in Schedule of Classes. May be repeated for a maximum of 10 credits.

OEEM 158. Emergency Medical Technician-Combination Refresher 2 Credits

A comprehensive review of prehospital medicine for the prehospital care provider from the first responder level through the EMT Intermediate. New material relevant to recertification of the New Mexico First Responder, EMT Basic and EMT Intermediate licensure included. Graded S/U.

OEEM 177. Emergency Medical Services Instructor

4 Credits

Theory of student learning, methodology, instructional components, evaluation, and course coordination for the EMS profession. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): Minimum of an EMT-Basic License required.

OEEM 201. Human Pathophysiology 3 Credits (2+3P)

Overview of anatomy and physiology. Emphasis on human body pathophysiology including a medical illness component. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 120, OEEM 120 L.

OEEM 202. EMT-Paramedic Respiratory Emergencies 3 Credits (2+3P)

Review anatomy, physiology and pathophysiology of the respiratory system. Assessment and management of respiratory emergencies and acute respiratory failure in the prehospital setting. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 212.

OEEM 203. EMT-Paramedic Trauma Emergencies 3 Credits (2+3P)

Study of the effects of trauma on the human body. Assessment and management of trauma patients and scenes, including vehicular extrication. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 216.

OEEM 206. Introduction to Advanced Prehospital Care 3 Credits (2+3P)

Overview of prehospital care including roles and responsibilities of EMT-P, EMS systems, medical, legal, ethical issues, stress management, medical terminology, medical report writing and communication. Includes ridealong with ambulance and dispatch observation. Requires a C or better to pass. Restricted to majors. Consent of instructor required. Restricted to: Community Colleges only. Restricted to OEEM majors.

Prerequisite(s): OEEM 120.

OEEM 207. Introduction to Pharmacology 3 Credits (2+3P)

Drug actions, factors modifying drugs and dosages: characteristics of drug effects, and drug history and dosages. Prehospital protocol, transport, and common patient prescription medications. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only. Restricted to OEEM majors. **Prerequisite(s):** OEEM 120.

OEEM 210. Cardiac Rhythm Interpretation 3 Credits (2+3P)

Cardiac conduction system: electrophysiology, electrocardiogram, monitor, atrial, sinus, ventricular and junctional dysrhythmias, multiple lead EKG and 12 lead EKG interpretation. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 201, OEEM 206, OEEM 207.

OEEM 212. EMT-Paramedic Cardiovascular Emergencies 3 Credits (2+3P)

Review anatomy, physiology, and pathophysiology of cardiovascular system. Assessment and management of cardiovascular emergencies in the prehospital setting. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEEM 210.

OEEM 213. EMT-Paramedic: Medical Emergencies I 3 Credits (2+3P)

Study of the disease process; assessment and management of neurological, endocrine, gastrointestinal, renal emergencies and infectious disease. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEEM 212.

OEEM 214. EMT--Paramedic: Medical Environmental Emergencies II 3 Credits (2+3P)

Study of disease process, assessment, and management of poisoning, drug and alcohol abuse, environmental, behavioral and geriatric emergencies. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEEM 213.

OEEM 216. EMT-Paramedic: Reproductive and Childhood Emergencies 3 Credits (2+3P)

Covers anatomy, physiology, disease processes, assessment and management of male and female reproductive system emergencies, childhood emergencies and growth and development. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only.

Prerequisite(s): OEEM 214 and consent of instructor.

OEEM 218. Pediatric Advance Life Support for the Healthcare Professional

1 Credit

Identify and respond to life threatening pediatric emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEM 101.

OEEM 219. Advance Cardiac Life Support for the Healthcare Provider 1 Credit

Identify and respond to life threatening cardiac emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEM 101.

OEEM 230. EMT-Paramedic Clinical Experience I

3 Credits

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

OEEM 231. EMT-Paramedic Clinical Experience II

3 Credits

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): OEEM 230. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

OEEM 240. EMT-Paramedic Field Experience I 3 Credits

Advanced prehospital skills and knowledge. Successful completion of at least the minimum required hours and course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

OEEM 241. EMT-Paramedic Field Experience II 3 Credits

Continued focus on advanced prehospital skills and knowledge, with increasing responsibility for patient care. Successful completion includes meeting at least the minimum required hours and course objectives. Pre/ Requires a C- or better to pass.

Corequisites: OEEM 240 Restricted to majors.

OEEM 242. EMT-Paramedic Field Internship 3 Credits

Credits

Emphasis on total patient care responsibility and team leadership skills. Successful completion includes meeting the minimum hours required and course objectives. Pre/ Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEEM 231, OEEM 241.

OEEM 243. EMT-Paramedic Preparation for Practice 2 Credits

Comprehensive final program testing to prepare for licensing examination. Requires a "C" or better to pass. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEEM 242.

OEEM 247. Emergency Medical Technician - Paramedic Refresher 2 Credits (1+3P)

A comprehensive review of prehospital emergency medicine for the EMT Paramedic. New material relevant to recertification of the New Mexico and Nationally Registered Paramedic licensure. Graded S/U.

OEEM 253. Critical Care Emergency Medical Transport Program 6 Credits (5+6P)

This course will provide further education to Paramedics, Registered Nurses and Registered Respiratory Therapists who wish to function as part of a critical care transport team. Consent of instructor required. Restricted to: Community Colleges only.

Prerequisite(s): Licensed Paramedic, Registered Nurse or Registered Respiratory Therapist with one or more years experience.

OEET- ELECTRICAL TRADES (OEET)

OEET 110. Basic Electricity and Electronics

4 Credits (3+3P)

An introduction to electricity theory and practice, including electron theory, Ohm s law, construction of electrical circuits, direct and alternating currents, magnetism, transformers, and practical applications. Same as HVAC 102, ELT 105, OEPB 102.

OEET 112. Math Study Skills for Electrical

1 Credit

Covers specific math study skills and critical thinking processes to reinforce practical uses of math relating to electrical apprenticeship applications. The student will be introduced to electrical mathematical formulas during the problem-solving steps required for electrical circuit design and analysis. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OEET 151 OR OEET 152. Restricted to: Community Colleges only.

OEET 115. Wiring Methods and Materials 5 Credits (2+6P)

Application of electrical code in selection of wiring materials; proper methods of installation.

Corequisite: OEET 110 or consent of instructor.

OEET 120. Basic Motor Controls

5 Credits (2+6P)

Developing schematics and wiring simple manual and electromechanical control devices.

Prerequisite: OEET 110 or consent of instructor.

OEET 151. Electrical Apprenticeship I 6 Credits

Apprenticeship responsibilities and benefits as well as first aid and CPR will be covered. Hand tools, electrical theory, and the regulations imposed by national codes and OSHA. Students will apply theory taught in their jobs.

Prerequisite: consent of instructor.

OEET 152. Electrical Apprenticeship II 6 Credits

OHM s law circuit sizing and service panel sizing will be covered in detail. Other topics include low voltage systems, heating and air conditioning circuits, alarm systems and smoke detectors.

Prerequisites: OEET 151 and consent of instructor.

OEET 153. Electrical Apprenticeship III

6 Credits

Various electrical measuring devices will be covered in detail. Inductance, transformers, capacitance, and simple motors will be studied. **Prerequisites:** OEET 152 and consent of instructor.

OEET 154. Electrical Apprenticeship IV 6 Credits

Theory and application of three-phase transformers and autotransformers. Electrical distribution using switchboards, panelboards, and circuit breakers.

Prerequisites: OEET 153 and consent of instructor.

OEET 205. National Electric Code

3 Credits

Interpretation and application of the National Electric Code. **Prerequisite:** OEET 110.

OEET 210. Intermediate Electricity

5 Credits (3+4P)

Introduction to inductance, capacitance, reactances, and power factor correction.

Prerequisite: OEET 110.

OEET 251. Electrical Apprenticeship V

6 Credits

Commercial/industrial applications for electricians. Blueprint interpretation, commercial construction types and processes, wiring methods, wiring materials, and motor controls.

Prerequisites: OEET 154 and consent of instructor.

OEET 252. Electrical Apprenticeship VI 6 Credits

In-depth commercial applications to include commercial/industrial service calculations, mobile home parks, multi-family dwellings, and commercial fire/security systems.

Prerequisites: OEET 251 and consent of instructor.

OEET 253. Electrical Apprenticeship VII

6 Credits

Control devices in commercial/industrial applications; emphasis on logic in-line diagrams, time delay starters, reversing starters, and manual/ magnetic solenoids.

Prerequisites: OEET 252 and consent of instructor.

OEET 254. Electrical Apprenticeship VIII 6 Credits

Miscellaneous topics for the journeyperson electrician to include power distribution/transmission, solid state controls and relays, photoelectric and proximity controls and programmable controllers.

Prerequisites: OEET 253 and consent of instructor.

OEET 295. Special Topics

1-6 Credits

Topics to be announced in the Schedule of Classes.

OEGR-DIGITAL GRAPHIC TECH (OEGR)

OEGR 221. Cooperative Experience I

1-3 Credits

Student employed in approved work site; supervised and rated by employer and instructor. Each credit requires specified number of hours of on-the-job work experience. Restricted to majors. Graded S/U. **Prerequisite:** consent of instructor.

OEGS-GEOGRAPHIC INFO SYS (OEGS)

OEGS 181. Introduction to Principles of Geographic Information Systems 4 Credits (3+3P)

This course will introduce students to fundamental software capabilities of geographic information systems (GIS), along with the underlying conceptual framework. Topics include origins, development, and methods of cartography, components of a GIS, the nature and characteristics of spatial data, methods of data capture and sources of data, review of typical GIS operations and applications. Producing useful, aesthetically pleasing maps will be an intergral part of the course. ArcGIS software will be used for this course. May be repeated up to 4 credits.

OEGS 187. GIS Data Acquisition and Management 4 Credits (3+3P)

An introduction to defining data needs and evaluating whether a given dataset matches those needs. Students will explore some common geographic data formats used in ArcGIS and learn about sources of data and maps that can be incorporated into a GIS project. The student will learn the advanced functionality and versatility of using geodatabases. The student will demonstrate how to design and build a geodatabase, migrate exisitng data to a geodatabase and edit data stored in a geodatabase. Methods for georeferencing scanned maps, aerial photos and computer aided drafting files will be explored and discussed. May be repeated up to 4 credits.

Prerequisite(s): OEGS 181.

OEGS 231. Introduction to GIS Spatial Analysis 4 Credits (3+3P)

This course aims to provide students with the knowledge and skills necessary to investigate the spatial patterns which result from social and physical processes operating on or near the Earth's surface. Essential theoretical concepts of quantitative geography are examined, including measures of geographical distribution (including point and areal pattern analysis) and spatial autocorrelation, interpolation and network connectivity. Students will also be introduced to ArcView (online GIS) and the open source programs such as QGIS and GRASS. May be repeated up to 4 credits.

Prerequisite(s): OEGS 181.

OEGS 291. Special Topics in Geographic Information Systems 1-3 Credits (1-3)

Topics to be announced in the Schedule of Classes. May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

OEPT-PHOTOGRAPHIC TRADES (**OEPT**)

OEPT 100. Photographics I 3 Credits (2+2P)

Covers basic black and white photographic techniques. Emphasizes black and white film and paper handling, film processing, proof printing, projection print, and print finishing. Adjustable camera required. Same as ART 270.

OEPT 120. Photo Finishing and Presentation 2 Credits (1+2P)

Use of visual language for personal expression. Freelance photography; care of original photos; preparation of portfolios, photographic markets, exhibitions and judging, galleries and copyrights. Students will prepare a photographic portfolio. Restricted to: Community Colleges only. **Prerequisite(s):** CMT 115.

OEPT 155. Portraiture

3 Credits (2+2P)

Hands-on study of professional photography involving people. Studio and environmental portraits, fashion/glamour, and wedding photography. Studio and exterior lighting techniques, selecting lighting equipment, film and supplies. Restricted to: Community Colleges only. **Prerequisite(s):** ART 270 or CMT 115.

Prerequisite(s). ART 270 OF CMT 115.

OETS-TECHNICAL STUDIES (OETS)

OETS 100. Industrial/Construction Safety

2 Credits

Covers safety issues such as PPE, BBP, ladder safety,, RTK, HazCom, MSDS and information about safety organizations such as OSHA, NIOSH, NFPA, National Safety Council. Community Colleges only. Restricted to Dona Ana and Carlsbad campuses.

OETS 102. Career Readiness Certification Preparation 1 Credit

This course is designed to prepare students to successfully obtain Career Readiness Certifications in all areas and at the appropriate levels for their program of study. Graded: S/U. May be repeated up to 3 credits. S/U Grading (S/U, Audit).

OETS 103. Technical Career Skills 4 Credits

This course will be project-based and will encompass writing, presentation, math, reading, and critical thinking skills applied in a technical environment. Restricted to: Community Colleges only.

OETS 104. Basic Mathematics for Technicians 4 Credits

Fundamental mathematical concepts and computations including measurement, ratio and proportions, and pre-algebra as it relates to technical programs.

Prerequisite: appropriate placement test score.

OETS 117. Writing for Technicians 3 Credits

Instruction in the skills for developing clear, written descriptions of processes and procedures used by technicians in various fields. Emphasis on correct grammar, logical organization, and receiving audience. Focuses on clarity, structure, and concise writing methods. Does not substitute for ENGL 111G. Restricted to: Community Colleges only.

OETS 118. Mathematics for Technicians 3 Credits (2+2P)

Analysis and problem solving of technical problems using measuring instruments and techniques of arithmetic, algebra, geometry, and trigonometry. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of "C-" or better in OETS 104 or CCDM 103 N, or appropriate placement test score.

OETS 120. Business Fundamentals

3 Credits

Instruction in the skills for basic business concepts used by technicians in various fields. Emphasis placed on basic business concepts; business ownership including marketing, management, accounting, and customer services; interpersonal communication; and basic computer concepts including word processing, spreadsheets, and presentation software. Restricted to Community Colleges campuses only.

OETS 255. Special Topics Technical Studies

1-6 Credits

Topics to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

Prerequisite(s): Consent of instructor.

P E-PHYSICAL EDUCATION (P E)

P E 102. Beginning Weight Training

1 Credit

Introduction to basic principles and techniques of weight training.

P E 103. Beginning Weight Training for Women

1 Credit Introduction to basic principles and techniques of weight training as related to women.

P E 104. Military Physical Fitness

1 Credit

Directed physical fitness activities designed to develop and maintain muscular strength/endurance, cardiopulmonary efficiency, flexibility, and coordination required for leadership roles after graduation.

P E 109. Pilates

1 Credit

Designed exercise program involves the entire body while focusing on strengthening the core muscles of the torso. Exercises promote coordination, balance, and strength.

P E 112. Beginning Volleyball for Men

- 1 Credit
- P E 113. Beginning Volleyball for Women 1 Credit
- P E 114. Basketball for Women
- 1 Credit
- P E 115. Basketball for Men
- 1 Credit

P E 117. Beginning Soccer

1 Credit

Introduction to the basic techniques and skills of soccer.

P E 127. Cardio-Kickboxing

1 Credit

Activities that mimic punches, blocks, and kicks which have been modified to serve the purpose of providing a cardiovascular workout.

P E 128. Aerobic Dance

1 Credit

Designed to increase knowledge of the human body's responses to exercise, enhance the level of muscular development, and cardiovascular endurance with the use of music.

P E 129. Step Aerobics

1 Credit

Designed to increase knowledge of the human body's responses to exercise, enhance the level of muscular development, and cardiovascular endurance with the use of music and steps.

P E 130. Beginning Swimming

1 Credit

P E 131. Aqua Aerobics

1 Credit

Designed to increase knowledge of the human body's responses to exercise, enhance the level of muscular development, and cardiovascular endurance through exercise in water.

P E 132. Intermediate Swimming

1 Credit

Development of fitness through participation in aquatics activities. **Prerequisite(s):** Ability to swim 200 yards.

P E 134. Lifeguard Training

2 Credits

Skills training for a nonsurf lifeguard. Course will include Standard First Aid and CPR certification.

Prerequisites: swim 500 yards, dive to 9-foot depth and retrieve a 10pound brick, surface dive to 5 feet then swim under water 15 yards, tread water one minute.

P E 147. Beginning Tennis

1 Credit

P E 148. Beginning Racquetball 1 Credit

P E 150. Beginning Golf 1 Credit

P E 154. Personal Defense

1 Credit

Physical conditioning and defense skills for men and women.

P E 159. Introduction to Brazilian Jiu-Jitsu

1 Credit

Brazilian Jiu-Jitsu is primarily a ground fighting art. This course will place heavy emphasis on positional strategy and focus on the sportive aspect of the sport. A Judo/Jiu-Jitsu Gi (uniform) is required.

P E 166. Futsal (Five-A-Side Soccer)

1 Credit

Futsal, official form of indoor soccer, approved by FIFA.

P E 173. Running Fitness

1 Credit

Basic fitness knowledge techniques and training methods of fitness running are practiced and refined.

P E 199. Yoga

1 Credit

A holistic approach to exercise benefiting the body, mind, and spirit. Practices focus on alignment, strength, breath relaxation, and restoration.

P E 202. Intermediate Weight Training

1 Credit

Intermediate training and skill techniques in weight lifting. **Prerequisites:** P E 102 or consent of department head.

P E 203. Weight Training for Olympic and Powerlifting 1 Credit

Designed to teach the Olympic form-the clean, jerk and snatch. Class format is a preprogrammed style of instruction with preset programs. Emphasis placed on developing sound lifting techniques. **Prerequisite(s):** P E 103 or consent of department head.

P E 204. Cross Training

1 Credit

Intensive training program that incorporates both aerobic and resistive overload approaches to training.

P E 205. Walking Fitness

1 Credit

Basic fitness knowledge techniques and training methods of fitness walking are practiced and refined.

P E 206. Beginning Physical Fitness

1 Credit

Progressive exposure to steady state exercise tailored to individual needs for the purpose of determining, improving, and maintaining physical fitness.

P E 212. Intermediate Volleyball-Men

1 Credit Prerequisite: P E 112 or consent of department head.

P E 213. Intermediate Volleyball-Women

1 Credit Prerequisite: P E 113 or consent of department head.

P E 215. Intermediate Walking

1 Credit

A continuation of basic fitness knowledge techniques and training methods of fitness walking are practiced and refined. **Prerequisite:** P E 205 or consent of department head.

P E 216. Advanced Walking

1 Credit

Advanced walking fitness and training techniques are presented, practiced, and refined.

P E 228. Intermediate Aerobic Dance

1 Credit Aerobic dance at a high intensity level with a more in-depth study of the body's physiological response to exercise.

Prerequisite: P E 128 or consent of department head.

P E 229. Intermediate Step Aerobics

1 Credit

Step aerobic dance at a high intensity level with a more in-depth study of the body's physiological response to exercise.

Prerequisite: PE 129 or consent of department head.

P E 230. Advanced Swimming

1 Credit Perfection of basic strokes, survival swimming, and physical fitness.

Prerequisite(s): P E 130 or ability to swim 100 yards.

P E 263. Outdoor Recreation Skills

1 Credit

Selected outdoor activities. Appropriate subtitles, such as hiking and backpacking, camping and survival, hunting and gun safety, casting and angling skills. May be repeated for maximum of 4 credits.

P E 270. Special Topics

1-3 Credits

Specific subjects to be announced in the Schedule of Classes. Each offering will carry appropriate subtitle. May be repeated for a maximum of 4 credits.

P E 299. Intermediate Yoga

1 Credit

Intermediate training and skill techniques in Yoga. Prerequisite(s): PE 199 or consent of instructor.

PE-P-PHYSICAL EDUCATION (PE P)

PE P 185. Social Foundations of Physical Activity **3 Credits**

Historical and cultural foundations and vocational, scientific, and educational data on careers in health education, physical education, and recreation. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

PE P 208. Fitness for Health and Sport

3 Credits

A study of the fitness needs for health enhancement and sport participation. Restricted to: P E,SP M,KIN,S ED majors.

PE P 210. Theory and Technique of Aquatics

2 Credits

Introduction to fundamental aquatics knowledge and skills. Prerequisite(s): Ability to swim 100 yards.

PHIL-PHILOSOPHY (PHIL)

PHIL 100G. Philosophy, Law and Ethics

3 Credits

An introduction to practical problems in moral, social, political, and legal philosophy. Topics to be discussed may include ecology, animal rights, pornography, hate speech on campus, same-sex marriage, justice, abortion, terrorism, treatment of illegal immigrants, and New Mexican Aboriginal Peoples' land claims.

PHIL 101G. The Art of Wondering **3 Credits**

Introduction to some of the main problems of philosophy, with an emphasis on critical thinking. Philosophy conceived as an aid to living in this world with oneself and with others.

PHIL 124G. Philosophy of Music

3 Credits

This is an introductory course in the philosophy of music. This course will survey three questions: What is music? Why is music important? How can we distinguish good music from bad music? We will draw examples from a wide variety of musical genres, from classical music, jazz and blues to punk and rap. Students will be encouraged to apply philosophical theorizing to think about their preferred musical form.

PHIL 136G. The Quest for God

3 Credits

An effort to understand the religious life; a consideration of some of the traditional approaches to God and what it means to be religious.

PHIL 201G. Introduction to Philosophy **3 Credits**

Selected problems within the main branches of philosophy: metaphysics, theory of knowledge, ethics. Practice given in critical thinking.

PHIL 211G. Informal Logic 3 Credits

Logical analysis of ordinary language, construction of definitions, argumentation, analysis of fallacious modes of thought and basic rhetorical considerations.

PHIL 223G. Ethics

3 Credits

The philosophical explication of morality. Significant ethical systems developed in the history of Western thought.

PHLS-PUBLIC HEALTH SCIENCES (PHLS)

PHLS 100. Introduction to Health Science

1 Credit

An overview of professional career opportunities in the realm of health science as well as the functional roles of practice, education, administration, and research. Some field trips will be required.

PHLS 150G. Personal Health and Wellness 3 Credits

A holistic and multi-disciplinary approach towards promoting positive lifestyles. Special emphasis is placed on major problems that have greatest significance to personal and community health. Topics to include nutrition, stress management, fitness, aging, sexuality, drug education, and others.

PHLS 275. Foundations of Health Education 3 Credits

Role and responsibility of the health educator with emphasis on small group dynamics, oral and written communication skills, building community coalitions and an introduction to grant writing. Taught with PHLS 375. Cannot receive credit for both PHLS 275 and PHLS 375. May be repeated up to 3 credits.

Prerequisite(s): PHLS 150G, or consent of instructor.

PHLS 295. Essentials of Public Health

3 Credits

The course will focus on principles and major areas if public health, including ecological and total personal concept of health care system, epidemiological approaches to disease prevention and control. Consent of Instructor required.

PHYS-PHYSICS (PHYS)

PHYS 110G. The Great Ideas of Physics 4 Credits (3+3P)

Conceptual, quantitative, and laboratory treatments of the great ideas and discoveries that have influenced lives and changed perceptions of nature, from Johannes Kepler's laws of planetary motion and Isaac Newton's and Albert Einstein's laws of motion and gravity to the modern concepts of the quantal structure of nature and the big bang universe.

PHYS 120G. Introduction to Acoustics 4 Credits (3+2P)

Lecture, demonstration, and laboratory treatment of the general properties of waves, the production, transmission, and reception of sound waves, including musical and vocal sounds, and characteristics of the human ear and several kinds of sources.

PHYS 150. Elementary Computational Physics 3 Credits (2+2P)

Introduction to computational techniques for the solution of physicsrelated problems. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in MATH 121G or MATH 190G or MATH 191G.

PHYS 203. Supplemental Instruction to PHYS 213 0.5-1 Credits (.5-1)

Optional workshop as a supplement to PHYS 213. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 213.

PHYS 204. Supplemental Instruction to PHYS 214

0.5-1 Credits (.5-1)

Optional workshop as a supplement to PHYS 214. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 214.

PHYS 205. Supplemental Instruction to PHYS 215G

0.5-1 Credits (.5-1)

Optional workshop as a supplement to PHYS 215G. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 215G.

PHYS 206. Supplemental Instruction to PHYS 216G

0.5-1 Credits (.5-1)

Optional workshop as a supplement to PHYS 216G. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 216G.

PHYS 210. Introductory Physics for the Health Sciences 3 Credits

Algebra-level introduction to topics required for the Health Sciences including basic mechanics (including sound, mechanical waves and fluids), heat and thermodynamics, electricity and magnetism, optics and electromagnetic waves, atomic and nuclear physics and applications to medical imaging. Restricted to Community Colleges campuses only. **Prerequisite(s):** MATH 120 or Equivalent.

PHYS 211G. General Physics I

3 Credits

Non-calculus treatment of mechanics, waves, sound, and heat. Knowledge of simple algebra and trigonometry is required.

PHYS 211GL. General Physics I Laboratory

1 Credit

Laboratory experiments in topics associated with material presented in PHYS 211G.

Prerequisite(s)/Corequisite(s): PHYS 211G.

PHYS 212G. General Physics II

3 Credits

Non-calculus treatment of electricity, magnetism, and light. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in PHYS 211G or PHYS 221G.

PHYS 212GL. General Physics II Laboratory

1 Credit

Laboratory experiments in topics associated with material presented in PHYS 212G.

Prerequisite(s)/Corequisite(s): PHYS 212G.

PHYS 213. Mechanics

3 Credits

Newtonian mechanics. Pre/ Corequisite(s): MATH 191G.

PHYS 213 L. Experimental Mechanics 1 Credit

Laboratory experiments associated with the material presented in PHYS 213. Science majors. Pre/ Corequisite(s): PHYS 213.

PHYS 214. Electricity and Magnetism 3 Credits

Charges and matter, the electric field, Gauss law, the electric potential, the magnetic field, Ampere's law, Faraday's law, electric circuits, alternating currents, Maxwell's equations, and electromagnetic waves. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 192G. Prerequisite(s): a C- or better in PHYS 213 or PHYS 215G, and MATH 191G.

PHYS 214 L. Electricity and Magnetism Laboratory 1 Credit

horotom

Laboratory experiments associated with the material presented in PHYS 214.

Prerequisite(s)/Corequisite(s): PHYS 214. Prerequisite(s): a C- or better in PHYS 213L or PHYS 215GL.

PHYS 215G. Engineering Physics I 3 Credits

Calculus-level treatment of kinematics, work and energy, particle dynamics, conservation principles, simple harmonic motion. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in MATH 191G.

PHYS 215GL. Engineering Physics I Laboratory 1 Credit

Laboratory experiments associated with the material presented in PHYS 215G. Students wishing to use the PHYS 215G-216G sequence to satisfy the basic natural science general education requirement must register for either PHYS 215GL or PHYS 216GL. Pre/ **Corequisite(s):** PHYS 215G.

PHYS 216G. Engineering Physics II

3 Credits

A calculus-level treatment of topics in electricity, magnetism, and optics. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in PHYS 213 or PHYS 215G and MATH 192G.

PHYS 216GL. Engineering Physics II Laboratory

1 Credit

Laboratory experiments associated with the material presented in PHYS 216G.

Prerequisite(s)/Corequisite(s): PHYS 216G. Prerequisite(s): A C- or better in PHYS 213L or PHYS 215GL.

PHYS 217. Heat, Light, and Sound

3 Credits

Calculus-level treatment of thermodynamics, geometrical and physical optics, and sound. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in PHYS 213 or PHYS 215G, and MATH 191G.

PHYS 217 L. Experimental Heat, Light and Sound 1 Credit

Laboratory experiments associated with the material presented in PHYS 217. Science majors.

Prerequisite(s)/Corequisite(s): PHYS 217. Prerequisite(s): a C- or better in PHYS 213L or PHYS 215GL.

PHYS 218. Supplemental Instruction to PHYS 217 0.5-1 Credits (.5-1)

This optional workshop supplements PHYS 217 "Heat, Light, and Sound". Students actively apply concepts and methods introduced in PHYS 217 to problem solving and quantitative analysis. May be repeated up to 1 credits.

Corequisite(s): PHYS 217.

PHYS 221G. General Physics for Life Sciences I 3 Credits

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. **Prerequisites:** a C or better in MATH 120 or higher.

PHYS 221GL. Laboratory to General Physics for Life Science I 1 Credit

Laboratory experiments in topics associated with material presented in PHYS 221G.

Prerequisite(s)/Corequisite(s): PHYS 221G. Restricted to Las Cruces campus only.

PHYS 222G. General Physics for Life Sciences II 3 Credits

This algebra-based course covers electricity, magnetism, light, atomic physics, and radioactivity. Special emphasis is given to applications in the life sciences This course is recommended for students in the life sciences and those preparing for the physics part of the MCAT. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in PHYS 211G or PHYS 221G, and MATH 121G.

PHYS 222GL. Laboratory to General Physics for Life Sciences II 1 Credit

Laboratory experiments in topics associated with material presented in PHYS 222G.

Prerequisite(s)/Corequisite(s): PHYS 222G. Restricted to Las Cruces campus only.

PHYS 223. Supplemental Instruction to PHYS 221 1 Credit

This optional workshop supplements Physics for Life Sciences I. The tutorial sessions focus on reasoning and hands-on problem solving. **Corequisite(s):** PHYS 221G.

PHYS 224. Supplemental Instruction to PHYS 222 1 Credit

This optional workshop is a supplement to Physics for Life Science II. The tutorial sessions focus on reasoning and hands-on problem solving. **Corequisite(s):** PHYS 222G.

PHYS 280. Independent Study

1-3 Credits

Individual analytical or laboratory studies directed by a faculty member. May be repeated for a maximum of 6 credits. **Prerequisite:** consent of instructor.

PHYS 290. Special Topics

1-3 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

PL-S-PARALEGAL SERVICES (PL S)

PL S 160. Legal System for the Paralegal

3 Credits

Introduction to the court system, administrative agencies, functions of law offices, and professional conduct and legal ethics. Restricted to: Community Colleges only.

Prerequisite(s): ACT standard score in English of 16 or higher or a Compass score 76 or higher; for those scoring 13-15 in English on ACT or 35-75 on Compass, successful complete of CCDE 105N or CCDE 110N; for those scoring 12 or below on the ACT standard score in English or 34 or below on the Compass, successful completion of CCDE 105N & CCDE 110N.

PL S 161. Legal Terminology

3 Credits

Survey of the language of the law that will serve either as an introductory course or as a review course to prepare students for the certification test.

PL S 162. The Virtual Law Office

3 Credits

The Virtual Law Office class is a 'hands-on', project oriented course designated to provide the student with the basic law office skills needed to function successfully in a law office setting. The student will gain a practical, working knowledge of the procedures necessary to work in a law office. The skills learned in the class will directly translate to real life situations. Restricted to: Community Colleges only. **Prerequisite(s):** PL S 160.

PL S 180. Constitutional Law for the Paralegal 3 Credits

Case standing of the law of the Constitution and Bill of Rights with regard to day-to-day applications in the law practice. Documents dealing with constitutional problems in both civil and criminal areas of law will be drafted and discussed.

Prerequisite: PL S 160.

PL S 190. Criminal Law for the Paralegal

3 Credits

Introduction to federal and state criminal law; criminal proceedings, prosecution and defense, sentencing and appeal. **Prerequisite:** PL S 160.

PL S 200. Legal Ethics for the Paralegal 3 Credits

Introduction to ethical dilemmas faced in the workforce and the rules of ethics developed by the American Bar Association, various national paralegal organizations, and the Supreme Court of New Mexico. Restricted to: Community Colleges only.

Prerequisite(s): PL S 160.

PL S 203. Immigration Law

3 Credits

Survey of the basics of immigration law including the rights and obligations of citizenship and the naturalization process. **Prerequisite:** PL S 160.

PL S 221. Internship I

2-4 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships can be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. Restricted to Community Colleges campuses only. **Prerequisite(s):** PL S 274.

PL S 222. Internship II

1-3 Credits

Continuation of PL S 221. Each credit requires specified number of hours of on-the-job work experience. Restricted to Community Colleges campuses only.

Prerequisite(s): PL S 221.

PL S 231. The Law of Commerce for the Paralegal 3 Credits

Law of contracts, negotiable instruments, bank transfers, secured transactions, debtor-creditor relations, agency, and business types and their formation. Students will study the relevant statutes as well as draft documents associated with these types of legal practice. Restricted to: Community Colleges only.

Prerequisite(s): PL S 160.

PL S 272. Bankruptcy Law for the Paralegal

3 Credits

Individual and corporate bankruptcy; the basic principles and processes of bankruptcy law as a system of debtor relief and debt collection. **Prerequisite:** PL S 160.

PL S 274. Legal Research and Writing for the Paralegal I 3 Credits

Legal memoranda, briefs, and pleadings will be prepared and written based on the student s original research. Research materials and techniques will be identified and studied; introduction of computer usage in legal research.

Prerequisite: PL S 160 and ENGL 111G.

PL S 275. Tort and Insurance for the Paralegal

3 Credits

Primary legal principles of tort and insurance law and means of establishing insurance plans, types of torts and insurance, as well as use of specific forms and procedures relating to these areas. **Prerequisite:** PL S 160.

PL S 276. Wills, Trusts, and Probate for the Paralegal 3 Credits

Cases and statutes dealing with wills, trusts, and probate. Emphasis on preparation and drafting of documents and the application of the law and documents to the client s problems.

Prerequisite: PL S 160.

PL S 277. Family Law for the Paralegal

3 Credits

Methods of conducting client interviews and drafting of pleadings and research relative to families. Laws relating to marriage, divorce, custody, support, adoption, name change, guardianship, and paternity. **Prerequisite:** PL S 160.

PL S 278. Litigation for the Paralegal

3 Credits

The law of procedure and evidence will be considered through rules and cases. Case situations will be used to identify and solve problems. **Prerequisite:** PL S 160.

PL S 279. Legal Research and Writing for the Paralegal II 3 Credits

Continuation of PL S 274. Advanced training in legal research problems with a focus on analysis, writing, and preparation of sophisticated legal memoranda and documents.

Prerequisite: PL S 274.

PL S 280. Interviewing and Investigation for the Paralegal 3 Credits

Techniques of legal interviewing and investigation with emphasis on development of human relations and communication skills. **Prerequisite:** PL S 160.

PL S 298. Independent Study

1-3 Credits (1-3)

Individual studies directed by consenting faculty with prior approval by department head. Restricted to Community Colleges campuses only. **Prerequisite(s):** PL S 160.

PORT-PORTUGUESE (PORT)

PORT 213. Portuguese for Romance Language Students I 3 Credits

Introduction to the Portuguese language, Brazilian culture and civilization. Taught in Portuguese. Open to students with any previous Romance language study (French, Italian, Portuguese, Romanian, Spanish).

PORT 214. Portuguese for Romance Language Students II 3 Credits

Continuation of PORT 213.

Prerequisite: C or better in PORT 213 or consent of instructor.

PSY-PSYCHOLOGY (PSY)

PSY 201G. Introduction to Psychology

3 Credits

Methods and principles of behavior. Topics include human evolution and development, biopsychology, perception, learning, thinking, motivation, social interaction, and the diagnosis and treatment of abnormal behavior.

PSY 211. Introduction to Research

1 Credit

Introductory skills in library and on-line research. Emphasizes the scientific method including oral and written presentation of research according to the APA Style Handbook. Does not replace PSY 310 as requirement in B.A. degree. Community Colleges only.

PSY 266. Applied Psychology

3 Credits

Explanation of the psychological principles of everyday living. Emphasizes motivation, learning of intelligent behavior, and applications of psychology to social issues. Community Colleges only.

PSY 274. A Study of Substance Abuse through Service Learning 3 Credits

Physiological and psychological impact of drug use on human behavior. Emphasizes practical applications of intervention and prevention in the community. Community Colleges only.

PSY 290. Psychology of Adjustment 3 Credits

Analyzes the responses people have to conflict, emotional stress, and frustration. It focuses on adapting to these problems and examines both normal and neurotic responses. Community College campus only.

RADT-RADIOLOGIC TECHNOLOGY (RADT)

RADT 100. Introduction to Radiologic Technology and Patient Care 2 Credits

Overview of the profession, including ethics, terminology, and basic radiation protection. Addresses basic and specialized procedures and topics related to the care of the patient. Restricted to: Community Colleges only. Restricted to Majors.

RADT 101. Radiographic Positioning I 4 Credits (2+6P)

Covers radiographic procedure and positioning concepts, techniques, terminology, and mechanics related to the thorax, abdomen, extremities, spine and pelvis. Includes positioning lab and clinical observation.

RADT 102. Radiographic Positioning II 4 Credits (2+6P)

Continuation of RADT 101. Includes skull, gastrointestinal, urinary, reproductive, biliary systems, and more advanced skeletal positions. Includes positioning lab and clinical observation.Restricted to: Community Colleges only. Restricted to Majors. **Prerequisite:** RADT 101.

RADT 103. Introduction to Radiographic Imaging 3 Credits (2+2P)

Provides the student with an in-depth knowledge of radiographic exposure technique and the factors affecting radiographic film quality. Includes lab experiments. Restricted to majors.

RADT 104. Special Radiologic Modalities 2 Credits

Discussion of various special procedures used in medical imaging such as, angiography, ultrasound, computerized tomography, magnetic resonance imaging, digital imaging, nuclear medicine, radiation therapy, etc. Includes guest lectures and field trips.

Prerequisite: RADT 103.

RADT 105. Radiographic Physics and Equipment 3 Credits

Fundamentals of rad physics. Includes electromagnetism, x-ray production and interactions, x-ray circuitry, tubes, grids, screens, AES, fluoroscopic and portable units, beam restricting devices, calibration and quality assurance/control. Overview of mammography, US, CT, MRI, and digital radiography. Restricted to: Community Colleges only. Restricted to Majors.

Prerequisite: RADT 103 or consent of instructor.

RADT 110. Radiographic Pathology

1 Credit

Overview of pathology demonstrated by radiographic procedures. Restricted to majors.

Prerequisite: RADT 154.

RADT 154. Radiographic Anatomy and Physiology 3 Credits

Basic A&P for radiographic application. Includes a systems approach to body structures and organs as they relate to anatomical projections, radiographic identification, and various imaging modalities. Restricted to: RADT majors. Restricted to: Community Colleges only.

Prerequisite(s): AHS 153 or AHS 140 or BIOL 225 or BIOL 154, or consent of instructor.

RADT 156. Independent Study 1-6 Credits

Individual studies/research on topics related to the radiological sciences. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

RADT 190. CT Equipment and Methodology 3 Credits

Skill development in the operation of computed tomographic equipment, focusing on routine protocols, image quality, and quality assurance and radiation protection. May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

RADT 200. Radiation Biology and Protection 2 Credits

Biological effects of ionizing radiation on cells and tissues. Includes radiation measurements, policies and protection measures for self, patients, and others. Restricted to majors. Restricted to: Community Colleges only.

Prerequisite(s): RADT 103.

RADT 201. Clinical Education I

7 Credits

Supervised practice in a radiology department under direct supervision of a registered technician. Includes film critiques. Community Colleges Only. Restricted to: RADT,OERT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): RADT 105.

RADT 202. Clinical Education II

11 Credits

Continuation of RADT 201. Student will work under indirect supervision of registered personnel. May be repeated up to 11 credits. Restricted to: OERT,RADT majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OERT 201.

RADT 203. Clinical Education III

11 Credits

Continuation of RADT 202. May be repeated up to 11 credits. Restricted to: RADT,OERT majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** RADT 202.

RADT 205. Radiographic Image Critique

1 Credit

Review of radiographs produced in clinical settings to evaluate anatomy and technical issues. Restricted to majors. **Prerequisite:** RADT 201.

RADT 206. Applied Radiographic Procedures 2 Credits (1+3P)

Advanced course which integrates the principles and techniques of radiologic technology. Restricted to majors. **Prerequisite:** RADT 202.

RADT 207. Cross Sectional Anatomy for Medical Imaging 3 Credits

Anatomic relationships that are present under various sectional orientations as depicted by computed tomography or magnetic resonance imaging. May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

RADT 208. Clinical I (Computed Tomography) 3 Credits

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. May be repeated up to 3 credits. Restricted to: RADT or CTOM majors. Restricted to Community Colleges campuses only.

RADT 209. Clinical II (Computed Tomography) 3 Credits

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. (Capstone Course). May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

RESP - RESPIRATORY THERAPY (**RESP**)

RESP 110. Respiratory Therapy I

3 Credits

Introduction to basic respiratory care techniques. Includes history, professional organizations, medical gas administration, oxygen therapy, cardiopulmonary AP, patient assessments, and medical terminology. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 110 L. Respiratory Therapy I Lab

2 Credits

Laboratory practice of basic respiratory care procedures. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 115. Respiratory Therapy Pharmacology 3 Credits

Concepts of physics as they apply to the physiology of the lungs. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 120. Respiratory Therapy II

4 Credits

Advanced respiratory care techniques. Emphasis on airway management, aerosol treatment, chest physiotherapy, pharmacology, posture pressure breathing, and pulmonary rehabilitation. Requires a C or better to remain in program. May be repeated up to 4 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Admission to program and RESP 110. Corequisite(s): RESP 120 L.

RESP 120 L. Respiratory Therapy II Lab

2 Credits

Continuation of lab practices and procedures learned in RESP 120, Respiratory Care II, using equipment and simulations. Requires a C or better to remain in program. Corequisite(s):RESP 120. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, RESP 110, RESP 110L and RESP 112.

RESP 124. Respiratory Therapy II Clinical 3 Credits

Supervised practice and application in a hospital setting. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, RESP 110, RESP 110L and RESP 112.

Corequisite(s): RESP 120 and RESP 120L.

RESP 155. Respiratory Therapy Special Topics

1-4 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 10 credits. Consent of instructor required. Restricted to: Community Colleges only. Restricted to RESP majors. **Prerequisite(s):** Admission to program.

RESP 210. Respiratory Therapy III

2 Credits

Introduction to adult, mechanical, neonatal ventilator theory and concepts of critical care medicine. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 115, RESP 120, RESP 120L, and RESP 124.

Corequisite(s): RESP 210L.

RESP 210 L. Respiratory Therapy III Lab 2 Credits

Advanced practice procedures using mechanical ventilation devices. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 115, RESP 120, RESP 120 L, and RESP 124.

Corequisite(s): RESP 210.

RESP 224. Respiratory Therapy IV Clinical

3 Credits

Continuation of RESP 124. Emphasis on mechanical ventilators. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 115, RESP 120, RESP 120 L, and RESP 124.

RESP 230. Respiratory Therapy V

3 Credits

Continuation of RESP 215. Emphasis on special modalities. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 230 L. Respiratory Therapy V Lab

2 Credits

Advanced practice and procedures of respiratory care. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 233. Respiratory Therapy Cardiopulmonary 2 Credits

Concepts of physics as they apply to the physiology of the lung. Emphasis on laws pertaining to gas flow, humidity, and the mechanics of the breathing process. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 234. Respiratory Therapy V Clinical 3 Credits

Continuation of RESP 214. Emphasis on special modalities. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 240. Respiratory Therapy VI

3 Credits

Advanced theory of hemodynamics, neonate, pediatric, and new specialties that apply to respiratory care. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 230, RESP 230L, RESP 233 and RESP 234. Corequisite(s): RESP 240L.

RESP 240 L. Respiratory Therapy VI Lab

2 Credits

Advanced laboratory practice and procedures. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 230, RESP 230L, RESP 233 and RESP 234.

Corequisite(s): RESP 240.

RESP 242. Pediatric Advanced Life Support (PALS) 1 Credit

Etiology, diagnosis, clinical manifestations, and management of cardiopulmonary disorders related to respiratory care. Restricted to majors.

Corequisite: RESP 230.

RESP 243. Respiratory Therapy Neonatal Resuscitation 1 Credit

Advanced practice of the neonatal resuscitation and certification. Restricted to: Community Colleges only. Restricted to RESP majors. **Prerequisite(s):** Admission to program and RESP 230, RESP 230L, RESP 233, and RESP 234.

Corequisite(s): RESP 240 and RESP 244.

RESP 244. Respiratory Therapy VI Clinical

3 Credits

Clinical experience on special modalities. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 230, RESP 230L, RESP 233 and RESP 234.

Corequisite(s): RESP 240.

RESP 255. Respiratory Therapy Special Topics 1-4 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 4 credits. Consent of instructor required. Restricted to: Community Colleges only. Restricted to RESP majors. **Prerequisite(s):** Admission to program.

RGSC-RANGE SCIENCE (RGSC)

RGSC 150. Rangeland Science Profession

1 Credit

Introduction to scientific disciplines and career opportunities in rangeland science and management.

RGSC 250. Special Topics

1-4 Credits

Specific subjects and credits announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

RGSC 294. Rangeland Resource Management 3 Credits

Overview of arid and semi-arid ecosystems in the US and abroad, rangeland plant physiology, ecology of rangeland plant communities and ecosystems, sustainable management for multiple uses including grazing livestock production, wildlife habitat, recreation and ecosystem services, and economics of rangeland-based enterprises. Restricted to: Main campus only.

S WK-SOCIAL WORK (S WK)

S WK 221G. Introduction to Social Welfare

3 Credits

A broad overview of current social problems and the role of social agencies and community members in addressing these problems.

S WK 251. Women s Issues in Social Work

3 Credits

Examines gender-specific social problems and their identification and resolution through the use of social agencies and community resources. Community Colleges only.

S WK 253. Case Management

3 Credits

Introduction to case management for social- and human-services workers. Overview of typical duties and responsibilities of a case manager, including setting goals, performing assessments, writing progress notes, and linking clients with other resources in the community. Recommended for students considering a career in social work or human services. Community Colleges only.

Prerequisites: PSY 201G and S WK 221G.

SMET-SCIENCE/MATH/ENG/TECH (SMET)

SMET 201. Research for Visiting Community College Students 1 Credit

Research experience for visiting community college students. Consent of instructor required. Restricted to: Main campus only.

SOC-SOCIOLOGY (SOC)

SOC 101G. Introductory Sociology

3 Credits

Introduction to social theory, research, methods of analysis, contemporary issues in historical and cross-cultural contexts. Covers groups, deviance, inequality, family, gender, social change, and collective behavior.

SOC 201G. Contemporary Social Problems 3 Credits

Introduction to the fundamentals of social analysis through the analysis of contemporary American social problems. Emphasis on methods of analysis and cross-national comparisons showing that the social problems studied are common to all societies. Covers racism, violence, poverty, crime, health care, and substance abuse.

SOC 258. Current Issues in Marriage and Family 3 Credits

Examination of contemporary American family life, including courtship, marriage, divorce, and child rearing. Community Colleges only.

SOC 262. Issues in Death and Dying

3 Credits

Major personal and social issues related to the process of dying in our culture. Community Colleges only.

SOC 263. Human Sexuality

3 Credits

Introduction to cultural and personal aspects of human intimacy, sexuality and the life cycle, sexual variation, and sexually transmitted diseases. Community Colleges only.

SOC 269. Sexualities and Society 3 Credits

Examines various sexualities from a sociological perspective. Topics include sexual identity, intimate relationships, sexual desire, sexual behavior, the sex industry, and the politics of sexuality. Discussion of selected topics is grounded in both macro and micro sociological viewpoints. Restricted to: Main campus only.

SOC 273. Sex and Gender

3 Credits

Analysis of changes, behaviors, and stereotypes of women and men in contemporary Western societies. Same as W S 273.

SOIL-SOIL (SOIL)

SOIL 200. Special Topics

1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree. May be repeated up to 9 credits. Consent of Instructor required.

SOIL 252. Soils

3 Credits

Origin, classification, morphology, and physical, chemical, and biological properties of soils. May be repeated up to 3 credits.

Prerequisite(s): CHEM 110G and MATH 120, OR CHEM 111G.

SOIL 252 L. Soils Laboratory

1 Credit

Morphological, chemical, physical and biological properties of soil in the laboratory and field.

Corequisite: SOIL 252.

SP M-SPORTS MEDICINE (SP M)

SP M 175. Introduction to Kinesiology

3 Credits

An introduction to the field of Kinesiology which will explore areas such as exercise physiology, sport and exercise psychology, motor behavior, biomechanics, strength and conditioning, exercise prescription, as well as professional and graduate programs, and allied health and applied careers opportunities. Restricted to Las Cruces campus only.

SP M 190. Introduction to Athletic Training 3 Credits

Introduction to the principles of athletic training. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: SPM majors. Restricted to Las Cruces campus only.

SP M 191. Medical Terminology 3 Credits

Study of the structure of medical language with emphasis on sports medicine-related terminology. To include analysis and interpretation of medical documentation. Restricted to: Las Cruces campus only.

SP M 200. Career Preparation 1 Credit

From concept to implementation: Career exploration, setting up degree plans, finding graduate programs, developing professional resumes, writing letters of application, seeking letters of recommendation, and interview preparation May be repeated up to 3 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

SP M 223. Exploring Extreme Human Performance 3 Credits

A reading, writing and documentary based course studying human's quest and the related sacrifices associated with participating in extreme performance activities such as the Olympics, wakeboarding, snowboarding, military special forces, ultra-run events, marathons, etc. Consent of Instructor required. Restricted to Las Cruces campus only.

SP M 250. Emergency Response in Sports Medicine 2 Credits

Designed to provide knowledge and experience in emergency care procedures, blood borne pathogens, and first aid. Students will receive certification in CPR/AED for the Professional Rescuer and in First Aid, upon successful completion of course. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: SPM majors. Restricted to Las Cruces campus only.

Prerequisite(s): Consent of Instructor.

SP M 271. Anatomy & Physiology I 3 Credits

Detailed study of the structure and function of the human musculoskeletal, cardiovascular, respiratory, and peripheral nervous systems. Designed specifically for students interested in allied health professions. Restricted to Las Cruces campus only.

SP M 271 L. Anatomy and Physiology Laboratory 1 Credit

Compliment to SP M 271. Students will engage in activities designed to enhance appreciation of the anatomical structures related to the content areas for SP M 271. Restricted to Las Cruces campus only.

SP M 272. Clinical Practicum I

2 Credits

Introduction to the clinical aspects of the athletic training education program. Must maintain at least 3.0 GPA. May be repeated up to 4 credits. Consent of Instructor required. Restricted to: SP M majors. Restricted to Las Cruces campus only.

SP M 273. Clinical Practicum II

3 Credits

Athletic training psycho-motor skills are enhanced and assessed by a preceptor during clinical rotations. Emphasis is on competencies and proficiencies previously instructed in didactic courses. Must maintain a 3.0 GPA. Consent of Instructor required. Restricted to: SP M majors. Restricted to Las Cruces campus only.

SP M 290. General Medical Conditions 3 Credits

Study of the recognition, evaluation, management, and treatment of non-orthopedic medical conditions that affect the physically active population. Consent of Instructor required. Restricted to: SP M and Kines Majors majors. Restricted to Las Cruces campus only. **Prerequisite(s):** SP M 190, 191 and 271/271L.

SPAN-SPANISH (SPAN)

SPAN 111. Elementary Spanish I

4 Credits (4)

Spanish for beginners. Speaking and writing common interactions

in predictable settings using basic vocabulary and verb tenses. Communicate in Spanish both orally and in writing sufficiently well so as to be able to make yourself understood by native speakers accustomed to dealing with non-native speakers. In spontaneous conversation and in writing, students will be able to produce a few sentences. Prerequisite(s): Not open to Spanish-speaking students except by consent of instructor. **Prerequisite:** language placement and/or assessment by departmental examination.

SPAN 112. Elementary Spanish II 4 Credits (4)

Spanish for beginners. Speaking and writing common interactions in predictable settings using basic vocabulary and verb tenses, including talking about events in the past and possible recommendations for the future. Communicate in Spanish both orally and in writing sufficiently well so as to be able to make yourself understood by native speakers accustomed to dealing with non-native speakers. In spontaneous conversation and in writing, students will be able to produce a variety of sentences and form context appropriate to open-ended questions Prerequisite(s): Not open to Spanish-speaking students except by consent of instructor.

Prerequisite: language placement and/or assessment by departmental examination or a C- or better in SPAN 111.

SPAN 113. Spanish for Heritage Learners I 3 Credits

Emphasis on development of heritage Spanish language skills learned at home and/or in the community. Covers listening comprehension, development of vocabulary and cultural activities to help strengthen heritage language and culture. Students who have previously earned a C or better in SPAN 111 or SPAN 112 may not recieve credit for this course.

SPAN 211. Intermediate Spanish I

3 Credits (3)

Speaking, reading and writing. Not open to Spanish-speaking students except by consent of instructor.

Prerequisite: language placement and assessment by departmental examination or C or better in SPAN 112.

SPAN 212. Intermediate Spanish II

3 Credits (3)

Speaking, reading and writing. Not open to Spanish-speaking students except by consent of instructor.

Prerequisite: language placement and assessment by departmental examination or C or better in SPAN 211.

SPAN 213. Spanish for Heritage Learners II 3 Credits

Emphasis on development of heritage language skills learned at home and/or in the community. Covers spoken Spanish, reading activities and grammar skills to build on existing knowledge of the language.

SPAN 214. Spanish for Heritage Learners III

3 Credits

Continued development of heritage Spanish language skills learned at home and/or in the community. Emphasis on reading, writing and critical thinking skills. Review of grammar points will also be stressed in preparation for upper level courses.

SPCD-ENGLISH AS A SECOND LNG (SPCD)

SPCD 108. Intermediate ESL Listening and Speaking 3 Credits

Development of listening and speaking skills with attention to pronunciation. Emphasis on conversation and oral practice appropriate to an academic setting. Graded S/U.

Prerequisites: placement based on English language screening test, and either a minimum TOEFL score of 500 or consent of instructor.

SPCD 110. Intermediate ESL Composition and Grammar Review 3 Credits

Development of fluent academic writing skills, with an emphasis on grammar review for editing purposes.

Prerequisite(s): Placement based on English language screening test, and either a minimum TOEFL score of 500 or consent of instructor.

SPED-SPECIAL EDUCATION (SPED)

SPED 201. Topics

3 Credits

Offered under various subtitles that indicate the subject matter to be covered. May be repeated 3 times for a maximum of 9 credits.

SPED 202. Culture, Learning and Academic Achievement in a Diverse Society

3 Credits

Development of culturally responsive learning strategies, skills and utilization of support services, to enchance academic achievement. Restricted to: Main campus only.

SPED 210. Introduction to Special Education 3 Credits

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.

STAT-STATISTICS (STAT)

STAT 251G. Statistics for Business and the Behavioral Sciences 3 Credits

Techniques for describing and analyzing data; estimation, hypothesis testing, regression and correlation; basic concepts of statistical inference. Crosslisted with: A ST 251G.

Prerequisite(s): C- or better in MATH 120.

STAT 271G. Statistics for Psychological Sciences 3 Credits

Techniques for describing and analyzing data; basic concepts of statistical inference; estimation, hypothesis testing, correlation, and analysis of variance.

Prerequisite(s): C- or better in MATH 120.

earnea ng and stressed in

SUR-SURVEYING (SUR)

SUR 222. Plane Surveying

3 Credits (2+3P)

Theory and practice of geomatics as applied to plane surveying in the areas of linear measurements, angle measurements, area determination, differential and trigonometric leveling, and topographic mapping. Crosslisted with: DRFT 222. **Prerequisite(s):** MATH 190G.

SUR 264. Introduction to LIS

3 Credits (2+3P)

Introduction to land information systems. Land tenure systems, coordinate systems, computer methods. Pre/ Corequisite(s): DRFT 109.

SUR 285. Precise Digital Mapping 3 Credits

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. **Prerequisite(s)/Corequisite(s):** SUR 222 or DRFT 222.

SUR 292. Public Land Survey System Boundaries 3 Credits

Fundamentals of the U.S. Public Land Survey System; rules for the survey of the public lands, field surveys; the rectangular system, corners, monuments, evidence; dependent and independent resurveys, corner restoration; plats and field notes, patents. Restricted to Las Cruces campus only.

Prerequisite(s): SUR 222.

SURG-SURGICAL TECHNOLOGY (SURG)

SURG 120. Surgical Technology Clinical I 2-4 Credits

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. This course is designed to prepare the student to enter the surgical environment. This course provides an introduction to the operating room, observation of surgical procedures, direct participation in the preoperative (pre-op, intra-op, post-op) preparation of individual cases and professional roles and responsibilities of individual members of the surgical team. Direct supervision is provided by the clinical professional. May be repeated up to 4 credits.

Prerequisite(s): Admission to Surgical Technology Program, BIOL 221, BIOL 225, BIOL 226, NURS 150.

Corequisite(s): SURG 140,SURG 145.

SURG 140. Introduction to Surgical Technology 4 Credits

This is an orientation to surgical technology theory, surgical pharmacology and anesthesia, technology sciences and patient care concepts and is designed to prepare the student to enter the surgical environment with entry-level knowledge necessary to understand patient responses to disease, illness, hospitalization, surgical procedures, commonly used pharmacological and anesthetic agents, and legal, moral, and ethical issues that could be encountered in the surgical environment. Restricted to Community Colleges campuses only.

Prerequisite(s): Admission to Surgical Technology Program; BIOL 221, BIOL 226, & NURS 150.

SURG 145. Fundamentals of Perioperative Concepts & Techniques 4-5 Credits (3+3P)

This is an in-depth coverage of perioperative concepts such as aseptic/ sterile principles and practice, infectious processes, wound healing and creation and maintenance of the sterile field. This course is designed to prepare the student to enter the surgical environment with entry-level knowledge of aseptic technique principles and practices, the creation and maintenance of the sterile field including equipment, supplies and instrumentation, and basic case preparation and procedures. An introduction to diseases and disease processes that may be displayed by the surgical patient and the patient's bodily responses to disease are also included. May be repeated up to 5 credits.

Prerequisite(s): Admission to Surgical Technology Program, BIOL 221, BIOL 225, BIOL 226, & NURS 150.

SURG 150. Surgical Procedures I 4-5 Credits (3-5+3P)

This course is an introduction to surgical procedures and its related pathologies. Emphasis on surgical procedures related to general, obstetrics/gynecology, genitourinary, otorhinolaryngology and orthopedic surgical specialties incorporating instruments, equipment. It is designed to prepare the student to function actively in the surgical environment with entry-level knowledge of surgical procedures. This course expands the basic foundation principles and combines the study of common surgical procedures to include anatomy, physiology and pathophysiology. Specific patient care concepts, medications, instrumentation, equipment, supplies and complication related to selected surgical procedures will be discussed. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 140, SURG 145, and SURG 120.

SURG 155. Pharmacology for the Surgical Technology 2 Credits

This is an orientation to surgical pharmacology and anesthesia and is designed to prepare the student to enter the surgical environment with knowledge necessary to categorize the classification of drugs, calculate drug dosages and identify the therapeutic use, routes of administration, indications, contraindications and adverse effects of pharmacologic agents used in the perioperative setting. This course is the foundation for the acquisition of program specific competencies as identified by the AST Core Curriculum. Restricted to Carlsbad campus only.

SURG 160. Surgical Procedures II 6 Credits

This an introduction to surgical procedures and related pathologies. Emphasis on surgical procedures related to thoracic, peripheral vascular, plastic/reconstructive, ophthalmology, cardiac and neurological surgical specialties incorporating instruments. The course is designed to prepare the student to continue to function actively in the surgical environment with entry-level knowledge of more complex surgical procedures. This course expands the basic foundation principles and combines the study of complex surgical procedures to include anatomy, physiology, and pathophysiology. Specific patient care concepts, medications, instrumentation, equipment, supplies, and complications related to specific surgical procedures will be discussed. Realities of clinical practice and concepts of death and dying will also be discussed. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 150, SURG 260.

SURG 230. Professional Readiness 2 Credits

This course transitions the student into professional readiness for employment, professional readiness for attaining certification and professional readiness for maintaining certification status. Admission to Surgical Technology Program necessary to enroll in the course. **Prerequisite(s):** SURG 140, SURG 145, SURG 120, SURG 150, SURG 260. **Corequisite(s):** SURG 160,SURG 265.

SURG 260. Surgical Technology Clinical II 4 Credits

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. This course is designed to provide the student the opportunity to function actively in the role as a surgical technologist and health care team member in a clinical setting under the direct supervision of faculty and health care staff. Applications of basic principles and practices combined with a supervised clinical experience participating in common surgical procedures is the focus. Admission to Surgical Technology Program necessary to enroll in the course. Restricted to Community Colleges campuses only.

Prerequisite(s): SURG 120, SURG 140, & SURG 145.

SURG 265. Surgical Technology Clinical III 4 Credits

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. This course is designed to provide the student the opportunity to function actively in the role of a surgical technologist and health care team member in a clinical setting under the direct supervision of faculty and health care staff. Refinement and application of basic principles and practices combined with entry-level employment competency expectations is the focus. Preparation for the National Certification Examination for Surgical Technologists is also included. Admission to Surgical Technology Program necessary to enroll in the course. **Prerequisite(s):** SURG 260.

TCEN-ENVIRONMENTAL/ENERGY TECH (TCEN)

TCEN 101. Energy for the Next Generation 3 Credits (2+2P)

This course will survey a broad range of sources of energy, types of energy, energy storage, and the forms of energy. Students will be exposed to theory in the classroom, laboratory exercises, and field trips to provide them with a solid foundation for all subsequent energy related environmental courses. Crosslisted with: OETS 101.

Prerequisite(s)/Corequisite(s): OETS 118 or MATH 120. Restricted to: Community Colleges only.

TCEN 105. Building Analyst I

3 Credits (2+2P)

This course is designed to provide the foundational knowledge and expertise necessary for the energy auditor and home performance contractor. Crosslisted with: OETS 105. Restricted to: Community Colleges only.

TCEN 106. Building Analyst II 3 Credits (2+2P)

Designed to prepare the student for the BPI Building Analyst Certification. This course will walk the student through the hands-on process of conducting visual building inspections, diagnostic testing, identifying improvement opportunities, documenting a home's performance and preparing a scope of work. Crosslisted with: OETS106.

Prerequisite(s)/Corequisite(s): TCEN 105 or OETS 105. Restricted to: Community Colleges only.

TCEN 110. Photovoltaic Application 4 Credits (3+2P)

This course will provide an introduction to Photovoltaic (PV) installation. The course will provide instruction on site selection, prep, installation, and maintenance for photovoltaic applications. Students that complete the course and have the opportunity to take the entry level exam with the North American Board of Certified Energy Practitioners (NABCEP) en route to becoming Certified Installers. Crosslisted with: OETS110. **Prerequisite(s)/Corequisite(s):** TCEN 101 or OETS 101. Restricted to: Community Colleges only.

TCEN 111. Basic Electrical Principles I, DC Circuits 4 Credits (3+2P)

Course begins with the basics of electricity and DC circuits. Includes categorization of material properties within conductors, semiconductors, and insulators. Gradual progression tackles more complex topics like DC circuit analysis of series and parallel circuits, including Kirchhoff's laws, Thevenin's & Norton's theorems, and superposition. Finally DC combination circuits, magnetism and electromagnetism, generators and motors are covered. Emphasis on safety throughout. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OETS 104 or MATH 120. Restricted to Community Colleges campuses only.

TCEN 112. PV Power Generation Design Fundamentals 3 Credits (2+2P)

A study of photo voltaic design basics, photo voltaic (PV) Cells, modules, and system components; electrical circuits; grid-tied/grid-interactive PV system design and sizing for use on homes; solar electric products and applications; and understanding energy conversion from sunlight to electricity, and working with solar conversion equipment. Pre/ May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 111 and (OETS 104 or MATH 120). Restricted to Community Colleges campuses only.

TCEN 113. OSHA 10 Hour Construction Hazard Identifications 1 Credit

Intended for entry-level participants to provide instruction on a variety of construction safety and health standards. Topics include Introduction to OSHA, Electrical, Ladder, Excavation, Scaffold, and Forklift Hazards, Fall Protection, Materials Handling, Personnel Protective Equipment and Confined Space Entry Hazards. Meets OSHA 10-Hour Requirements.

TCEN 115. Wind Power Generation Design Fundamentals 3 Credits (2+2P)

Course covers wind turbine module descriptions and functions and wind system installation, operation, and troubleshooting. Additional topics include wind energy harvesting and the conversion process from the generator system to electricity. May be repeated up to 3 credits. **Prerequisite(s)/Corequisite(s):** TCEN 111 and (OETS 104 or MATH 120). Restricted to Community Colleges campuses only.

TCEN 121. Basic Electrical Principles II, AC Circuits 4 Credits (3+2P)

Course begins with an overview of the primary components of AC circuits, such as resistors, inductors, rectifiers, transformers and capacitors, and then gradually introduces new, more complicated topics like applying AC principles in power generation and generators, motors, parallel and combination circuits, troubleshooting and evaluation of circuit conditions. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): TCEN 111 and (OETS 104 or MATH 120). Restricted to Community Colleges campuses only.

TCEN 156. Building Envelope

3 Credits (2+2P)

Designed to prepare the student for the BPI Building Envelope Certification. This course will provide the principles behind building performance testing and the purpose of completing a comprehensive energy audit. Through lecture and subsequent field training, the student will learn how to use building diagnostics to develop a prescriptive plan for enhancing comfort, health & safety, building durability, and energy savings. The student will learn how to outline the follow-up process required after completion of the retrofit. Crosslisted with: OETS156. Restricted to: Community Colleges only.

Prerequisite(s): TCEN 106 or OETS 106.

TCEN 205. NEC for Alternative Energy

4 Credits (2+4P)

This hands-on course will cover the National Electrical Code specifics concerning photovoltaic installation. Also code compliant wiring of basic electrical systems will be covered. Existing installations will be visited and studied. Restricted to: Community Colleges only. **Prerequisite(s):** TCEN 101 and ELT 105.

TCEN 220. Cooperative Experience

1-3 Credits (1-3)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. May be repeated up to 6 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): MAT 235. Prerequisite(s): TCEN 180. Restricted to: TCEN majors. S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

TCEN 221. Roofing Materials and Methods 3 Credits (2+2P)

Covers application techniques and estimation of asphalt and wood roofing products and accesories including gutters and flashing. Presents roof penetration, roof loading issues, and energy system installation requirements for mounting photo voltaic or solar thermal systems. **Prerequisite(s):** TCEN 112.

TCEN 222. Photo Voltaic Grid Tie Installation 4 Credits (3+2P)

This is a more advanced course culminating in a PV system-togrid connection. This course includes gathering site specific data, design, wire type and sizing specific to project, installation of all solar modules and balance of system (BOS)components, and grounding and bonding of system components, all in accordance with the latest NEC. Upon project design approval a system will be commissioned for the grid. Decommissioning will commence after measurements and troubleshooting as directed by the instructor. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): TCEN 121 and TCEN 223. Prerequisite(s): TCEN 111 and TCEN 112. Restricted to Community Colleges campuses only.

TCEN 223. Photo Voltaic National Electrical Code Principles 2 Credits (2+1P)

Focuses on all sections of the National Electrical Code and local code requirements applicable to photo voltaic electrical installation. A partial list of areas covered is chapters one through four and section 690, "Solar Photovoltaic Systems" of the National Electrical Code. Pre/

Prerequisite(s): TCEN 112. Corequisite(s): TCEN 222.

TCEN 224. Field Experience

1-3 Credits (1-3)

Student will collaborate with instructor in proposing, defining, implementing, and analyzing outcomes of a project in the Environmental and Energy fields of study. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: TCEN majors. Restricted to: Community Colleges only.

TCEN 241. Solar Thermal SHW Principles/Installation and Maintenance 3 Credits (2+2P)

Course presents the theory, installation, operation, and maintenance of solar hot water (SHW) systems. Topics include the types of systems to choose, the costs associated with SHW installation and operation, system sizing requirements, batteries and battery chemistry. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OETS 104 or MATH 120.

TCEN 246. Building Weatherization & Auditor Fundamentals 3 Credits

Course provides information on how to locate air leaks and identify heat losses or gains through specific testing. Students will learn how to inspect and evaluate building envelopes, mechanical systems, and ventilation systems to determine the safety and energy consumption for each system. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): TCEN 113 and OETS 104. Corequisite(s): TCEN 221.

TCEN 250. Photo Voltaic System Integrator Fundamentals 3 Credits

Teaches the student project management fundamentals for working with homeowners, businesses, government, contractors, and manufacturers to design, build, and install complete alternative energy systems. Covers photovoltaic, small wind, and micro-hydro system designing, permitting, budgeting, and cost estimating requirments. Pre/

Prerequisite(s): E T 125. Corequisite(s): TCEN 222.

TCEN 251. Advanced Photo Voltaic On/Off Grid Installation 3 Credits (2+2P)

Photo Voltaic advanced topics to include panel racking and installation, battery storage, charge controllers, mechanical integration of arrays on buildings, and key elements involved in choosing a mounting system. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 222. Restricted to Community Colleges campuses only.

TCEN 252. NABCEP Entry-Level Exam Review 2 Credits

Course presents knowledge, key terms, and concepts of photovoltaic systems and solar hot water systems as related to the NABCEP Entrylevel exam. This exam is for those wanting to enter the workforce in either solar thermal or solar PV. Scheduling and taking the exam is the responsibility of the student. Consent of Instructor required. **Prerequisite(s)/Corequisite(s):** TCEN 253. Prerequisite(s): TCEN 222. Restricted to Community Colleges campuses only.

TCEN 253. Renewable Energy System Troubleshooting and Maintenance 3 Credits (2+2P)

Covers wind, solar and solar thermal system troubleshooting and maintenance topics to include equipment, electrical, and installation problem areas. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 251. Prerequisite(s): TCEN 222. Restricted to Community Colleges campuses only.

TCEN 254. Renewable Energy Internship

2 Credits

Student will receive industry-related renewable energy experiences at an approved industry location. Typical areas of hands-on practices will be installing solar PV, solar hot-water systems, or wind energy systems. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): TCEN 112 and 113 and 222.

THTR-THEATRE (THTR)

THTR 101G. The World of Theatre

3 Credits

An appreciation class introducing the non-major to all aspects of theatre, including its history, literature and professionals. Students attend and report on stage productions.

THTR 105. Acting for Non-Majors

3 Credits

An introduction to basic performance techniques for non-majors.

THTR 110. Beginning Acting

3 Credits

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.

THTR 120. Stage Movement 3 Credits

Physical techniques for the actor to develop kinesthetic awareness and skills in characterization, archetypes, and stage combat. Restricted to: THTR majors.

THTR 130. The Art of Theatre 3 Credits

This course introduces the variety and scope of theatre professions, the value and goals of the theatre major and an analysis of the art form from script to stage. Restricted to: Required for THTR majors majors.

THTR 141. Introduction to Stagecraft

3 Credits

Basic techniques used in the construction of scenery, props, and sound. Lab required. Pre/

Corequisite(s): THTR 141L.

THTR 141 L. Stagecraft Laboratory

1 Credit

Class members will assist with construction for productions in a studio environment. Pre/

Corequisite(s): THTR 141.

THTR 142. Introduction to Costume Crafts

3 Credits

Common costume production techniques, including basic stitching, use of equipment, knowledge of available materials, dyeing, and 3-D. **Prerequisite(s)/Corequisite(s):** THTR 142L. Restricted to: THTR majors.

THTR 142 L. Costume Craft Lab

1 Credit

Class members will assist in construction for productions in a studio environment. Pre/

Corequisite(s): THTR 142.

THTR 149. Running Crew I

2 Credits (1+2P)

Students learn about backstage and front of house production positions and work on a technical aspect of a production in a rehearsal and performance environment.

THTR 200. Theatre Workshop I

0.5 Credits

Required for all freshman and sophomore theatre majors, this course coordinates all processes within Theatre Arts, providing a forum for discussion and feedback. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

THTR 206. Intermediate Acting for Non-Majors

3 Credits

A continuation of THTR 105 with an emphasis on monologues, scenes and characterization.

Prerequisite(s): THTR 105.

THTR 210. Intermediate Acting: Scene Study and Monologues 3 Credits

Monologues and scene work, using character and script analysis. **Prerequisite(s)/Corequisite(s):** THTR 205. Prerequisite(s): THTR 110 with C- or above.

THTR 220. Vocal Production for the Actor 3 Credits

Exploration and development of the actor's vocal instrument, including relaxation, projection, diction and articulation. May be repeated up to 3 credits. Restricted to: THTR majors.

THTR 222. Theatre Topics

1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 9 credits.

THTR 249. Running Crew II

1 Credit

Students work on a technical aspect of a production in a rehearsal and performance environment.

THTR 250. Introduction to Design 3 Credits

Introduction into our visual world via the language of designers, focusing on collaboration, creative thinking and presentation skills. The varied design professions in theatre and the performing arts will be explored. Restricted to: Required of all THTR Majors majors.

UNIV-UNIVERSITY STUDIES (UNIV)

UNIV 101. Tutorial

1-3 Credits

Development of specific skills required for college courses, such as notetaking, listening, and test-taking. To be taken in conjunction with a regular designated college course. May be repeated for a maximum of 3 credits. Graded S/U.

UNIV 110. Personal Learning Skills I

1-3 Credits

Individualized programs for self-improvement in skill areas necessary for academic success in the university environment. Each course to bear an appropriate subtitle. May be repeated up to 3 credits.

UNIV 112. Academic and Personal Effectiveness

2 Credits

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.

UNIV 113. Speed Reading

1 Credit

Introduction to strategies and techniques for increasing reading rate and comprehension related to academic areas.

UNIV 114. Financial Literacy Money Matters 2 Credits

This course will cover a variety of financial literacy topics ranging from budgeting to student loan repayment. This course is designed to assist students in becoming more financially literate. Restricted to Las Cruces campus only.

UNIV 115. Transition from Military to University 2 Credits

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. Restricted to Las Cruces campus only.

UNIV 116. Preparing for Cooperative Education & Internship 1 Credit

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. S/U Grading (S/U, Audit). Restricted to Las Cruces campus only.

UNIV 117. Diversity at the University 1 Credit

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 at NMSU. S/U Grading (S/U, Audit). Restricted to Las Cruces campus only.

UNIV 118. Career Explorations and Planning 1 Credit

This course is designed to increase the likelihood that individuals will successfully navigate the challenges they face when making college major and related career choices. Restricted to Las Cruces campus only.

UNIV 150. The Freshman Year Experience 3 Credits

An introduction to the university and its resources; emphasis on development of academic and personal skills that enable freshmen to become successful learners. Restricted to: Main campus only. **Prerequisite(s):** Freshman Standing Only.

UNIV 161. NMSU Gospel Choir

1 Credit

Students will gain performance experience and exposure to urban contemporary gospel music. Open to all majors. May be taken for unlimited credit. Restricted to: Main campus only.

W S-WOMEN'S STUDIES (W S)

W S 201G. Introduction to Women's Studies 3 Credits

Analysis of the status of women in society today and history and consequences of gender stratification and inequality from the perspectives of sociology, anthropology, psychology, political science, and other sciences.

W S 202G. Representing Women Across Cultures 3 Credits

Historical and critical examination of women's contributions to the humanities, with emphasis on the issues of representation that have contributed to exclusion and marginalization of women and their achievements. Crosslisted with: HON 218

WATR-WATER UTILITIES (WATR)

WATR 120. Introduction to Water Systems 3 Credits

Introduction to and theory of groundwater sources, production, treatment, and distribution.

WATR 130. Wastewater Collection and Basic Treatment Systems 3 Credits

Introduction to wastewater characteristics, collection, and basic treatment operations.

WATR 140. Applied Water and Wastewater Math I 3 Credits

Introduction to basic water and wastewater mathematics, flows through distribution networks and collection systems, and fundamentals of flow measurement.

Prerequisite: CCDM 114 N or equivalent.

WATR 160. Systems Maintenance

4 Credits (2+4P)

Basic tools, equipment, maintenance schedules, chlorinator troubleshooting, and chlorine safety. Hands-on training with valves, pumps, meters and chlorination equipment.

WATR 175. Programmable Logic Controllers

2 Credits

This course will introduce students to electrical safety, theory, and the function, operations, programming and troubleshooting of the PLC controlling common electrical components utilized in control circuits associated with the water and wastewater industry. Restricted to: Community Colleges only.

WATR 180. Water Chemistry

3 Credits

Basic chemistry with applications to water and wastewater analysis. **Prerequisite:** CCDM 114 N or consent of instructor.

WATR 182. Water Chemistry Analysis 1 Credit

Beginning water and wastewater laboratory analysis including gravimetric, volumetric, and quality control techniques. **Prerequisite:** CCDM 114 N or equivalent or consent of instructor.

WATR 190. Water and Wastewater Microbiology 3 Credits

Overview of microorganisms associated with water and wastewater. Growth and reproduction, energy production, and methods of counting. **Prerequisite:** WATR 130, WATR 180, or consent of instructor.

WATR 192. Water and Wastewater Microbiological Analysis 1 Credit

Introduction to water and wastewater treatment operational tests such as BODs, solids testing, activated sludge control tests, use of microscope, and bacteriological techniques.

Prerequisites: WATR 130 and WATR 182, or consent of instructor.

WATR 200. Internship

3-5 Credits

On-the-job training/work experience with municipalities or industries, working in water or wastewater treatment plants, high purity water plants, industrial waste plants, distribution systems, or wastewater collection systems. May be repeated up to 5 credits. Consent of Instructor required. Restricted to: Water Technology majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

WATR 220. Water Treatment Systems

3 Credits

Theory of water systems operation including surface water treatment, fluoridation, sodium zeolite softening, corrosion control, iron removal, various filtration methods, and overview of SDWA.

Prerequisites: WATR 180 and WATR 182 or consent of instructor.

WATR 222. Water Systems Operation 1 Credit

Operations of various water treatment systems including surface water treatment, sodium zeolite softeners, and various filtration methods. **Prerequisite:** WATR 220 or consent of instructor.

WATR 230. Advanced Wastewater Treatment

4 Credits

Calculations and operations involved in wastewater and water reclamation plants.

Prerequisites: WATR 140, WATR 190, and WATR 192, or consent of instructor.

WATR 232. Wastewater Systems Operations

1 Credit

Operation of pretreatment, primary, and biological treatment units. **Prerequisite:** WATR 230 or consent of instructor.

WATR 240. Advanced Water and Wastewater Math II 3 Credits (2+2P)

Advanced water and wastewater mathematics. Flow measurement. Systems head and pump curves. **Prerequisites:** WATR 140.

WATR 250. Municipal Systems Management 4 Credits

Management of water utility systems including laws, finance, records, and safety.

Prerequisites: WATR 120, WATR 130.

WATR 255. Special Individualized Problems in Water Technology 1-4 Credits

Individual studies in areas directly related to water technology. **Prerequisite:** consent of instructor.

WATR 270. Special Topics

1-4 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

WATR 275. Certification Review

3 Credits

Review of water and wastewater plant operations and laws in preparation for state certification exams. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): WATR 120, WATR 130, WATR 140, WATR 160.

WATR 285. High Purity Water Treatment Systems 3 Credits

Principles of high purity water production including microfiltration, ultrafiltration, reverse osmosis, and deionization. **Prerequisite:** WATR 220.

WATR 287. Advanced Water Chemistry Analysis 3 Credits

Sampling techniques, analysis, and evaluation of potable water contaminants using gravimetric, volumetric, spectrophotometric, and other instrumentation methods. May be repeated up to 3 credits. **Prerequisite(s)/Corequisite(s):** Consent of instructor or WATR 285. Restricted to Community Colleges campuses only.

WATR 290. Advanced Wastewater Microbiology and Chemistry **3 Credits**

Covers NPDES permits and DMR calculations and reporting; 503 sludge regs, including pathogen and vector attraction reduction and pollutants; wetlands, composting, and wastewater treatment ponds microbiology; activated sludge bulking and foaming microbiology and treatment; and use of selector to remove nutrients and prevent the growth of filamentous bacteria

Prerequisite: WATR 190, WATR 192.

WATR 292. Advanced Wastewater Analysis

3 Credits

Covers sampling techniques, analysis, and evaluation of wastewater contaminants using gravimetric, volumetric, spectrophotometric, and other instrumentation methods.

Prerequisite: WATR 190 and WATR 192.

WELD-WELDING TECHNOLOGY (WELD)

WELD 100. Structural Welding I

6 Credits (3+6P)

Development of basic skills in SMAW, OFC, and OFW in accordance with the AWS entry-level welder program.

WELD 101. Fundamentals of Welding **3 Credits**

Set-up and adjustment of ARC and oxyacetylene equipment. Welding safety procedures and terminology. Skill development in laying weld beads with various patterns, positions, and processes.

WELD 102. Welding Fundamentals

3 Credits (2+2P)

Survey of welding and cutting processes for nonmajors. Classroom instruction and laboratory work with OFC/OFW, SMAW, GMAW, FCAW, and plasma arc cutting.

WELD 105. Introduction to Welding 3 Credits

Welding practices, procedures, and terminology. Welding safety, equipment types, electrode types in usage, joint design and testing procedures.

WELD 110. Blueprint Reading (Welding) **3 Credits**

Interpretation of prints related to welding. Emphasis on AWS standard symbols for welding, brazing, and nondestructive examination.

WELD 112. Professional Development and Leadership 1 Credit

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing or participating in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: WELD majors. S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

WELD 115. Structural Welding II 6 Credits (3+6P)

Continuation of WELD 100. Emphasis on AWS entry and advanced level welder skills with SMAW, including all-position welding with mild and stainless steel electrodes. Plasma arc and air-carbon arc cutting, metallurgy, heat treatment, and weld defects. Prerequisite: WELD 100.

WELD 120. Basic Metallurgy **3 Credits**

Properties of ferrous and nonferrous materials. Service conditions and heat treatment of metals related to welding trade. Prerequisites: WELD 100 or consent of instructor.

WELD 125. Introduction to Pipe Welding 3 Credits (2+2P)

Pipe fit-up and welding techniques for pipe fitting and pipe weld joint using SMAW, GMAW, GTAW, and FCAW, 2G welding of pipe. Restricted to: Community Colleges only.

Prerequisite(s): WELD 100, WELD 130, and WELD 140, or consent of instructor.

WELD 126. Industrial Pipe Welding

3 Credits

Enhancement of WELD 125. Development of more advanced pipe welding skills.

Prerequisites: WELD 110, WELD 130 and WELD 140.

Corequisite: WELD 125.

WELD 130. Introduction to GMAW MIG) 3 Credits (2+2P)

Development of basic skills with gas metal arc welding (MIG) in accordance with AWS entry-level welder objectives. Wire electrodes, shielding/purge gases, and modes of metal transfer.

WELD 140. Introduction to GTAW TIG) 3 Credits (2+2P)

Development for basic skills with gas tungsten arc welding (TIG) in accordance with AWS entry/advanced welder objectives. Welding mild steel, tungsten electrode preparation, filler wire selection, and equipment set-up.

WELD 150. Pipe Welding II

3 Credits (2+2P)

Continuation of WELD 125; with fillet and groove welded joints in a horizontal fixed and 45-degree fixed positions (5-F, 5-G, 6-F, 6-G). Prerequisite: WELD 125.

WELD 151. Industrial Pipe Welding II

3 Credits

Enhancement of WELD 150. Development of more advanced pipe welding skills. Emphasis on industry driven test.

Prerequisites: WELD 125 and WELD 126. Corequisite: WELD 150.

WELD 160. Introduction to SAW and FCAW 3 Credits (2+2P)

Submerged arc and flux-cored arc welding. Demonstrations and practice with machine travel submerged arc welding (SAW), flux-cored arc welding (FCAW-G, FCAW-S) on mild steel plate and pipe. Restricted to: Community Colleges only.

WELD 170. Welded Fabrication

3 Credits (1+4P)

Development of fabrication skills including basic layout, measuring, and utilization of various welding processes including out-of-position welding. Use of common shop tools.

Prerequisites: WELD 100, WELD 110, WELD 130, and OETS 104 or OETS 118.

WELD 180. GTAW II

3 Credits (2+2P)

Continuation of WELD 140. Development of more advanced GTAW skills. Emphasis on pipe welding with mild steel, stainless steel, and aluminum. Prerequisite: WELD 140 or consent of instructor.

WELD 190. Welded Art

3 Credits (1+4P)

Students explore the possibilities of welded art in the form of sculpture, jewelry, furniture and as a framework to support other art media. Offered as an elective for students who wish to create art using welding. May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): WELD 102.

WELD 211. Welder Qualification

6 Credits (3+6P)

Laboratory and classroom instruction on AWS and ASME Welder Performance Qualification Tests. All position plate and pipe techniques and tests for SMAW, GMAW, GTAW, FCAW, and SAW. Nondestructive and destructive examination methods. Basics of welding codes. Restricted to majors.

Prerequisites: OETS 104 or OETS 118; and WELD 100, WELD 110, WELD 120, WELD 130, WELD 140, WELD 160 and WELD 180 or consent of instructor.

WELD 221. Cooperative Experience I

1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U. Restricted to majors.

Prerequisites: WELD 100 or WELD 101 and consent of instructor.

WELD 255. Special Problems in Welding Technology 1-6 Credits

Individual studies in areas of welding technology. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

WELD 295. Special Topics

1-4 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

PERSONNEL

President

Van Winkle, Ken, President; Professor of Music; DMA, University of Oregon

Administration

Cal, Mark P., Vice President for Academic Affairs; Professor of Civil & Environmental Engineering; Ph.D., University of Illinois at Urbana-Champaign

Ricksecker, Anne, Vice President for Student Success; Assistant Professor of Education/Early Childhood Education; M.A. Ed., Austin Peay State University

Salinas, Antonio, Vice President for Business and Finance; B.A., New Mexico State University

Exempt Staff

Aranda, Elizabeth, Administrative Assistant, Senior

Beavers, Linda, Curriculum Services Coordinator; B.A., University of New Mexico

Bond, Gary, Accessibility Services Coordinator; M.A., New Mexico State University

Covarrubias, Aidee, Financial Aid Advisor; B.A.S., New Mexico State University

Fabian Holder, Lucinda L., Academic Advisor; M.A., Communication Studies, New Mexico State University

Fechner, Mary, Administrative Assistant, Special/Executive; A.A., New Mexico State University

Garcia, Brenda, Human Resources Operations Unit Coordinator; A.A., New Mexico State University

García, Juan, Director, Public Relations, Development & Events; Ed.D., University of Texas - Austin

Garcia, Judy, Administrative Assistant, Senior; A.Pre-Bus., New Mexico State University

Harms-Van Duyn, Paula, I-BEST Instructor; M.S., University of the Southwest

Hernandez, Elma, Admissions Advisor; B.A., New Mexico State University *Hernandez, Veronica,* Adult Education Program Coordinator; B.B.A., New Mexico State University

Hille, David, Web Developer, Associate; M.A., New Mexico State University *Hillis, Gregory*, Institutional Researcher, Lead; M.S., Salve Regina University

Jaskolowski, Russell, Multi-Media Specialist, A.G.S., New Mexico State University

Jenkins, Sharon, Director, Library Services; Ph.D., University of North Texas *Kinney, Lee*, Buyer, Senior; B.B.A., New Mexico State University

Kommer, Richard, Assistant Manager, Facilities Service

Livingston, Patricia, Manager, Small Business Development Center; M.B.A., Eastern New Mexico University - Portales

Martin, Jasmine, Multi-Media Specialist; B.I.S., New Mexico State University

Pena, Rose, Academic Advisor; M.S.C.P., Troy State University *Perry, Michelle,* Associate Vice President of Extended Programs; M.A., New Mexico State University

Romero, Noel, Instructional Consultant; B.B.C.S., New Mexico State University

Saenz, Maria, Director, Adult Basic Education/Academic Skills Center; M.A., New Mexico State University

Sanders, David, Systems Analyst, Intermediate; B.A., New Mexico State University

Strawderman, Judith, Teacher, Intermediate; M.Ed., Grand Canyon University

Valdespino, Doris C., Scholarship/Financial Aid Advisor; B.A., New Mexico State University

Viscarra, Miguel, Tutor, Senior; M.A., New Mexico State University Wheeler, Timothy, Academic Advisor; B.S., West Texas A & M University Wilkson, Nancy A., Manager, Facilities Service; M.S., Troy State University

Academic Division Heads

Aguilar-Morgan, Catherine A., Career & Technology Division; Professor of Math & Engineering; M.S., New Mexico Institute of Mining and Technology

David MacWilliams C., Arts & Sciences Division; Professor of English; Ph.D., University of North Carolina at Greensboro

Regular Faculty

Adams, John B., College Professor of Graphic Arts; B.F.A., Academy of Art College

Allred, Tanya, Professor of English; M.A. New Mexico State University *Baca, Ernestine,* Professor of Physical Education; Ed.D., New Mexico State University

Cook, Susan, College Professor of Business and Business Office Technology; M.A. Troy State University

De Vargas, Sonja, College Associate Professor of German; M.A., University of New Mexico

Delgado, Janet, College Associate Professor of Mathematics; M.S., New Mexico Highlands University

Edwards, James, College Assistant Professor of Mathematics & Engineering; M.S., U.S. Naval Postgraduate School

Eydenberg, Francis M., Professor of Physics; M.S., University of Southern California

Gallagher, James D., Professor of Communication; Ph.D., University of Washington

Grundhoffer, Elizabeth, Assistant Professor of English; M.A., New Mexico State University

Haley, John D., Professor of History; M.A., New Mexico State University Hernandez, Richard, College Instructor of Automotive and Hybrid

Technology; A.A.S., New Mexico State University

Hill, Joyce A., Director of Assessment; Professor of Education; Ph.D., New Mexico State University

Klinger, Robert J., Associate Professor of Astronomy; M.S., University of Illinois at Urbana-Champaign

Lombraña, Vicente, Professor of Biology; Ph.D., New Mexico State University

Lopez-Gallagher, Kim T., Professor of History and Government; M.A., St. John's College

McGowan, Wayne, Professor of Chemistry; M.S., University of Denver *O'Neill-Armendarez, Erin,* Associate Professor of English Developmental Writing/Composition; Ph.D., University of Louisiana-Lafayette

Placencio, Matthew A., Associate Professor of Engineering Technology; B.I.C.T., New Mexico State University

Roark-Diehl, Kathy L., Professor of English; M.A., New Mexico State University

Ross, Becky, Director, Allied Health; Assistant Professor of Nursing; M.S.N., New Mexico State University

Ross, Theresa, College Assistant Professor of Nursing; M.S.N., Capella University

Sadler, Edmund, College Assistant Professor of Mathematics, Engineering, & Physics; M.S. New Mexico State University

Smith, Jennifer, College Professor of Biology; Ph.D., New Mexico State University

Taylor, Brian, Assistant Professor of Art; Diploma of Philosophy, Fine Arts, University of Paris, Sorbonne Nouvelle

Trapp, Christine L., College Associate Professor of Biology; Ph.D., University of California-Davis

Villaverde, Gloria A., Associate Professor of Biology; Ph.D., University of Texas-El Paso

Walker, Sylvia, Associate Professor of Mathematics; M.A., New Mexico State University

Webb, P. Frank, College Associate Professor of Philosophy; M.A., California State University-Fresno

Wheeler, Sherrell, Director of Online Quality Assurance; Professor of Business; M.A., West Texas A&M University

Yancey, Bryan, Professor of Art; M.F.A., Claremont Graduate School

INDEX

Α
A S-ARTS AND SCIENCES 117
A ST- APPLIED STATISTICS117
About NMSU Alamogordo 6
Accounting/Bookkeeping - Certificate78
Accreditation7
ACCT-ACCOUNTING117
ACES-AGRI, CONSUMER & ENV SCIE117
Admissions
Advanced Renewable Energy Systems - Certificate108
AERO-AEROSPACE STUDIES117
AERT-AEROSPACE TECHNOLOGY118
AG E-AGRICULTURAL ECONOMICS 119
AGRO-AGRONOMY119
AHS-ALLIED HEALTH SCIENCE119
Alamogordo Academic Catalog 4
Allied Health
Allied Health - Associate of Science
ANSC-ANIMAL SCIENCE
ANTH-ANTHROPOLOGY121
ARCT-ARCHITECTURE122
Art and Graphic Design - Certificate99
ART-ART
Arts70
Arts - Associate of Arts71
ASTR-ASTRONOMY125
AUTO-AUTOMOTIVE TECHNOLOGY126
Automotive and Hybrid Technology72
Automotive and Hybrid Technology - Associate of Applied Science 72
Automotive Diagnostic Specialist - Certificate73
AVIM-AVIATION MAINTENANCE
AXED-AGRICULTURAL EXTN EDUC128

BOT-BUSINESS OFFICE TECHNOLOGY	135
BUSA-BUSINESS ADMINISTRATION	137
Business Management	74
Business Management - AAS ACCT/Bookkeep Concentration	75
Business Management - AAS Admin Support Concentration	76
Business Management - AAS General Mgt Concentration	77

^{'8} C

•
C D-COMMUNICATION DISORDERS 137
C E-CIVIL ENGINEERING137
C EP-COUNSELING & EDUC PSY 138
C J-CRIMINAL JUSTICE
C S-COMPUTER SCIENCE
CCDE-DEVELOPMENTAL ENGLISH 140
CCDL-DEVELOPMENTAL ESL
CCDM-DEVELOPMENTAL MATHEMATICS 140
CCDR-DEVELOPMENTAL READING141
CCDS-DEVELOPMENTAL SKILLS 141
CHEF-CULINARY ARTS141
CHEM-CHEMISTRY143
CHIN-CHINESE
CHME-CHEMICAL & MATERIALS ENGR144
CHSS - COMM HEALTH/SOC SRVCS144
CMI - CINEMA & FILM/VIDEO PROD145
CMT-CREATIVE MEDIA TECHNOLOGY146
COLL-COLLEGE
COMM-COMMUNICATION
Common Course Numbering Crosswalk50
Computer Science
Computer Science - Associate of Applied Science80
Course Descriptions115
Criminal Justice
Criminal Justice - Associate Degree81
CSEC-CYBERSECURITY 151
CTEC-CYBER TECHNOLOGY151
CTFM-CLTHNG/TXTLS/FSHN MRCHDSG153
D

-	
DANC-DANCE	153
DAS-DENTAL ASSISTING	155
Degrees & Certificates	66
Developmental Evaluation	13
DHYG - DENTAL HYGIENE/HYGIENIST	156
DMS-DIAGNOSTIC MED SONOGRAPHY	

B

B A-BUSINESS ADMINISTRATION	129
BCHE-BIOCHEMISTRY	129
BCIS-BUSINESS COMPUTER SYSTEMS	129
BCT-BUILDING CONSTRUCTION TECH	129
BIOL-BIOLOGY	131
BLAW-BUSINESS LAW	133
BMGT-BUSINESS MANAGEMENT	

DRFT-DRAFTING160
E
E E-ELECTRICAL ENGINEERING163
E S-ENVIRONMENTAL SCIENCE
E T-ENGINEERING TECHNOLOGY 164
Early Childhood83
Early Childhood - Associate Degree83
ECED-EARLY CHILDHOOD EDUCATION 166
ECON-ECONOMICS168
EDUC-EDUCATION168
Education85
Education - Associate Degree, Elementary Concentration
Education - Associate Degree, Secondary Math Concentration87
Education - Associate Degree, Secondary Science Concentration
ELA - EDUC LEADERSHIP & ADMIN168
ELT - ELECTRONICS TECHNOLOGY169
ELWK-ELECTRICAL LINEWORKER170
Emergency Medical Services (EMS) Intermediate90
Emergency Medical Services (EMS) Intermediate - Associate of Applied Science
EMS Course Completion Certificates
Engine Performance and Transmission Specialist - Certificate74
Engineering Tech - AAS Biomedical Equip Concentration94
Engineering Tech - AAS Electronics Concentration
Engineering Technology92
ENGL-ENGLISH171
ENGR-ENGINEERING172
EPWS-ETMLGY/PLNT PTHLGY/WD SCI172

F

FCS-FAMILY AND CHILD SCIENCE	172
FCSE-FAMILY & CONSUMER SCI EDU	172
FIN-FINANCE	173
Financial Aid & Scholarship Services	17
Fine Arts	
Fine Arts - Associate Degree	95
FIRE-FIRE INVESTIGATION	173
FREN-FRENCH	175
FSTE-FOOD SCIENCE & TECHNOLOGY	175
FWCE-FISH,WILDLF,CONSERV ECOL	175

G

GENE-GENETICS	5
General Education Courses	0

General Engineering	97
General Engineering - Associate of Science	
General Information	8
General Management - Certificate	78
GEOG-GEOGRAPHY	175
GEOL-GEOLOGY	176
GER-GERMAN	176
GOVT-GOVERNMENT	176
Graduation Requirements	48
Graphic Design	99
Graphic Design - Associate of Applied Science	99

Η

HIST-HISTORY	177
HIT-HEALTH INFO TECHNOLOGY	177
HNDS-HUMAN NUTRITION & DIET	
HON-HONORS	178
HORT-HORTICULTURE	180
HOST-HOSPITALITY AND TOURISM	180
HRTM-HOTEL/RESTRNT/TOURISM MGT	181
HVAC-HEATING/AC/REFRIGERATION	

I

I E-INDUSTRIAL ENGINEERING	183
Information Technology	100
Information Technology - Associate of Applied Science	101
INMT - INDUSTRIAL MAINTENANCE	
INTEGRATED NATURAL SCIENCES	
International Student Admission	14

J

JOUR-JOURNALISM	
JPNS-JAPANESE	

L

L SC-LIBRARY SCIENCE	
LANG-LANGUAGE	187
LAWE-LAW ENFORCEMENT	
Leadership Skills - Certificate	79
Legal Assistant - Certificate	103
LIB-LIBRARY SCIENCE	187
LING-LINGUISTICS	

Μ

M E-MECHANICAL ENGINEERING	188
M SC-MILITARY SCIENCE	.188

MAT-AUTOMATION & MANUFACTURING	
MATH-MATHEMATICS	190
Medical Assistant - Associate of Applied Science	69
MGT-MANAGEMENT	
Military and Veterans Programs (MVP)	24
MKTG-MARKETING	
MUS-MUSIC	

Ν

NA - NURSING ASSISTANT	194
NAV-NAVAJO	
NMSU System Academic Regulations	
NURS-NURSING	196

0

OEBM-BIOMEDICAL TECHNOLOGY	200
OECS-COMPUTER TECHNOLOGY	200
OEEM- PARAMEDIC	203
OEET- ELECTRICAL TRADES	205
OEGR-DIGITAL GRAPHIC TECH	206
OEGS-GEOGRAPHIC INFO SYS	206
OEPT-PHOTOGRAPHIC TRADES	207
OETS-TECHNICAL STUDIES	207
Online Degrees/Certificates	102

Ρ

P E-PHYSICAL EDUCATION	07	St
Paralegal Studies	03	SL
Paralegal Studies - Associate of Applied Science	04	SL
PE-P-PHYSICAL EDUCATION	09	Τ
Personnel	26	тс
PHIL-PHILOSOPHY20	09	TH
Phlebotomist Technician - Certificate of Achievement	70	Tra
PHLS-PUBLIC HEALTH SCIENCES	09	Tu
Photo Voltaic Entry Level - Grid Tie - Certificate	08	U
Photographic Technology1	05	UN
Photographic Technology - Certificate10	05	W
PHYS-PHYSICS20	09	W
PL-S-PARALEGAL SERVICES2	11	w
PORT-PORTUGUESE2	12	We
Prebusiness10	06	w
Prebusiness - Associate Degree10	06	**1
PSY-PSYCHOLOGY	12	
	Paralegal Studies 1 Paralegal Studies - Associate of Applied Science 1 PE-P-PHYSICAL EDUCATION 2 Personnel 2 PHIL-PHILOSOPHY 2 Phlebotomist Technician - Certificate of Achievement 2 PHLS-PUBLIC HEALTH SCIENCES 2 Photo Voltaic Entry Level - Grid Tie - Certificate 1 Photographic Technology 1 Phys-PHYSICS 2 PL-S-PARALEGAL SERVICES 2 Porebusiness 1 Prebusiness 1 Prebusiness - Associate Degree 1	P E-PHYSICAL EDUCATION207Paralegal Studies103Paralegal Studies - Associate of Applied Science104PE-P-PHYSICAL EDUCATION209Personnel226PHIL-PHILOSOPHY209Phlebotomist Technician - Certificate of Achievement70PHLS-PUBLIC HEALTH SCIENCES209Photo Voltaic Entry Level - Grid Tie - Certificate108Photographic Technology105Photographic Technology - Certificate105PHYS-PHYSICS209PL-S-PARALEGAL SERVICES211PORT-PORTUGUESE212Prebusiness106Prebusiness - Associate Degree106PSY-PSYCHOLOGY212

R

RADT-RADIOLOGIC TECHNOLOGY 213
Recognition of Academic Achievement 19
Renewable Energy Systems Technology107
Renewable Energy Systems Technology - Associate of Applied Science 109
Resources for Students9
RESP - RESPIRATORY THERAPY214
RGSC-RANGE SCIENCE

S

•	
S WK-SOCIAL WORK	215
San Juan College Surgical Technology Program	70
Science	110
Science - Associate Degree	110
SMET-SCIENCE/MATH/ENG/TECH	215
SOC-SOCIOLOGY	215
Social Work	112
Social Work - Associate Degree	112
SOIL-SOIL	216
SP M-SPORTS MEDICINE	216
SPAN-SPANISH	217
SPCD-ENGLISH AS A SECOND LNG	217
SPED-SPECIAL EDUCATION	217
STAT-STATISTICS	217
Student Organizations & Activities	19
SUR-SURVEYING	218
SURG-SURGICAL TECHNOLOGY	218

Τ

26	TCEN-ENVIRONMENTAL/ENERGY TECH	.219
09	THTR-THEATRE	221
70	Transfer Students	13
09	Tuition, Fees, and Other Expenses	16

U

05	UNIV-UNIVERSITY STUDIES	
----	-------------------------	--

W

W S-WOMEN'S STUDIES	222
WATR-WATER UTILITIES	222
Welcome from the President	5
WELD-WELDING TECHNOLOGY	224
	W S-WOMEN'S STUDIES