# NMSU Alamogordo 2020-2021 Course Catalog



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# **TABLE OF CONTENTS**

Alamogordo Academic Catalog	. 4
Welcome from the President	4
About NMSU Alamogordo	. 4
Accreditation	. 5
General Information	. 5
Admissions	. 5
Course Placement	7
Financial Aid & Scholarship Services	. 7
General Education Courses	. 9
Graduation Requirements	12
International Student Admission	14
Military and Veterans Programs (MVP)	15
Recognition of Academic Achievement	18
Resources for Students	18
Student Organizations & Activities	22
Transfer Students	22
Tuition, Fees, and Other Expenses	23
NMSU System Academic Regulations	25
Common Course Numbering Crosswalk	47
Degrees & Certificates	87
Allied Health	88
Allied Health - Associate of Science	
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen	89
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen	89 91
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen  Medical Assistant - Associate of Applied Science	89 91 91
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen  Medical Assistant - Associate of Applied Science Nurse Aide Theory & Lab - Certificate of Achievement	89 91 91 92
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen Medical Assistant - Associate of Applied Science Nurse Aide Theory & Lab - Certificate of Achievement Phlebotomist Technician - Certificate of Achievement	89 91 91 92 92
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen Medical Assistant - Associate of Applied Science Nurse Aide Theory & Lab - Certificate of Achievement Phlebotomist Technician - Certificate of Achievement San Juan College Surgical Technology Program	89 91 91 92 92 92
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen Medical Assistant - Associate of Applied Science Nurse Aide Theory & Lab - Certificate of Achievement Phlebotomist Technician - Certificate of Achievement San Juan College Surgical Technology Program	89 91 91 92 92 92 93
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen Medical Assistant - Associate of Applied Science Nurse Aide Theory & Lab - Certificate of Achievement Phlebotomist Technician - Certificate of Achievement San Juan College Surgical Technology Program Arts	89 91 92 92 92 93 94
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen Medical Assistant - Associate of Applied Science Nurse Aide Theory & Lab - Certificate of Achievement Phlebotomist Technician - Certificate of Achievement San Juan College Surgical Technology Program Arts Arts - Associate of Arts Automotive and Hybrid Technology	89 91 91 92 92 92 93
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen Medical Assistant - Associate of Applied Science Nurse Aide Theory & Lab - Certificate of Achievement Phlebotomist Technician - Certificate of Achievement San Juan College Surgical Technology Program Arts	89 91 92 92 92 93 94
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen Medical Assistant - Associate of Applied Science Nurse Aide Theory & Lab - Certificate of Achievement Phlebotomist Technician - Certificate of Achievement San Juan College Surgical Technology Program Arts Arts - Associate of Arts Automotive and Hybrid Technology Automotive and Hybrid Technology - Associate of Applied	89 91 92 92 92 93 94 95 95
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen Medical Assistant - Associate of Applied Science Nurse Aide Theory & Lab - Certificate of Achievement Phlebotomist Technician - Certificate of Achievement San Juan College Surgical Technology Program Arts Arts - Associate of Arts Automotive and Hybrid Technology - Associate of Applied Science	89 91 92 92 92 93 94 95 95
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen Medical Assistant - Associate of Applied Science Nurse Aide Theory & Lab - Certificate of Achievement Phlebotomist Technician - Certificate of Achievement San Juan College Surgical Technology Program Arts Arts - Associate of Arts Automotive and Hybrid Technology Automotive and Hybrid Technology - Associate of Applied Science Automotive Diagnostic Specialist - Certificate	<ul> <li>89</li> <li>91</li> <li>92</li> <li>92</li> <li>92</li> <li>93</li> <li>94</li> <li>95</li> <li>95</li> <li>96</li> </ul>
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen Medical Assistant - Associate of Applied Science Nurse Aide Theory & Lab - Certificate of Achievement Phlebotomist Technician - Certificate of Achievement San Juan College Surgical Technology Program Arts Arts - Associate of Arts Automotive and Hybrid Technology Automotive and Hybrid Technology - Associate of Applied Science Automotive Diagnostic Specialist - Certificate Engine Performance and Transmission Specialist - Certificate Business Management (Accouting/Bookkepping) - AAS	<ul> <li>89</li> <li>91</li> <li>91</li> <li>92</li> <li>92</li> <li>93</li> <li>94</li> <li>95</li> <li>95</li> <li>96</li> <li>97</li> </ul>
Allied Health - Associate of Science Electrocardiogram Technician - Certificate of Achievemen Medical Assistant - Associate of Applied Science Nurse Aide Theory & Lab - Certificate of Achievement Phlebotomist Technician - Certificate of Achievement San Juan College Surgical Technology Program Arts Arts - Associate of Arts Automotive and Hybrid Technology - Associate of Applied Science Automotive Diagnostic Specialist - Certificate Engine Performance and Transmission Specialist - Certificate Business Management	<ul> <li>89</li> <li>91</li> <li>92</li> <li>92</li> <li>92</li> <li>93</li> <li>94</li> <li>95</li> <li>95</li> <li>96</li> <li>96</li> </ul>

Business Management (General Management) - AAS	. 99
Accounting/Bookkeeping - Certificate	100
General Management - Certificate	101
Leadership Skills - Certificate	101
Computer Science	101
Computer Science - Associate of Applied Science	102
Criminal Justice	103
Criminal Justice - Associate Degree	104
Early Childhood	105
Early Childhood - Associate Degree	106
Education	107
Education (Elementary) - Associate Degree	108
Education (Secondary Math) - Associate Degree	110
Education (Secondary Science) - Associate Degree	112
Emergency Medical Services (EMS) Intermediate	113
Emergency Medical Services (EMS) Intermediate - Assoc of Applied Science	iate 114
EMS Course Completion Certificates	115
Engineering Technology	115
Engineering Technology (Electornics) - AAS	116
Engineering Technology (Biomedical Equipment) - AAS	117
	117
Fine Arts	118
Fine Arts - Associate Degree	119
General Engineering	120
General Engineering - Associate of Science	120
Graphic Design	122
Graphic Design - Associate of Applied Science	122
Graphic Design - Certificate	123
Information Technology	123
Information Technology - Associate of Applied Science	124
Online Degrees/Certificates	125
Paralegal Studies	126
Legal Assistant - Certificate	126
Paralegal Studies - Associate of Applied Science	127
Photographic Technology	128
Photographic Technology - Certificate	128
Prebusiness	129
Prebusiness - Associate Degree	129
Renewable Energy Systems Technology	130
Advanced Renewable Energy Systems - Certificate	131
Photo Voltaic Entry Level - Grid Tie - Certificate	

Renewable Energy Systems Technology - Associate of Applied Science	132
Science	133
Science - Associate Degree	133
Social Work	135
Social Work - Associate Degree	135
Welding	137
Welding - Certificate	137
Course Descriptions	137
A S-ARTS AND SCIENCES	140
ACCT-ACCOUNTING	140
ACES-AGRI, CONSUMER & ENV SCIE	141
AEEC-AGRICULTURAL ECON/ECON	141
AERO-AEROSPACE STUDIES	141
AERT-AEROSPACE TECHNOLOGY	142
AGRO-AGRONOMY	143
AHS-ALLIED HEALTH SCIENCE	143
ANSC-ANIMAL SCIENCE	143
ANTH-ANTHROPOLOGY	145
ARCH-ARCHITECTURE	145
ART-ART	147
ARTH-ART HISTORY	147
ARTS-ART STUDIO	147
ASTR-ASTRONOMY	149
AUTO-AUTOMOTIVE TECHNOLOGY	150
AVIM-AVIATION MAINTENANCE	152
AXED-AGRICULTURAL EXTN EDUC	152
B A-BUSINESS ADMINISTRATION	153
BCHE-BIOCHEMISTRY	153
BCIS-BUSINESS COMPUTER SYSTEMS	153
BCT-BUILDING CONSTRUCTION TECH	153
BFIN-BUSINESS FINANCE	155
BIOL-BIOLOGY	155
BLAW-BUSINESS LAW	156
BLED-BILINGUAL EDUCATION	156
BMGT-BUSINESS MANAGEMENT	157
BOT-BUSINESS OFFICE TECHNOLOGY	159
BUSA-BUSINESS ADMINISTRATION	159
C E-CIVIL ENGINEERING	159
C S-COMPUTER SCIENCE	159
CCDE-DEVELOPMENTAL ENGLISH	160
CCDM-DEVELOPMENTAL MATHEMATICS	160

CCDR-DEVELOPMENTAL READING	161
CCDS-DEVELOPMENTAL SKILLS	161
CEPY-COUNSELING & EDUCATIONAL PSYCHOLOGY	161
CHEF-CULINARY ARTS	162
CHEM-CHEMISTRY	164
CHIN-CHINESE	165
CHME-CHEMICAL & MATERIALS ENGR	165
CHSS - COMM HEALTH/SOC SRVCS	166
CJUS-CRIMINAL JUSTICE	166
COMM-COMMUNICATION	166
CSEC-CYBERSECURITY	167
CTEC-CYBER TECHNOLOGY	167
CTFM-CLTHNG/TXTLS/FSHN MRCHDSG	169
DANC-DANCE	169
DAS-DENTAL ASSISTING	171
DHYG - DENTAL HYGIENE/HYGIENIST	172
DMS-DIAGNOSTIC MED SONOGRAPHY	174
DRFT-DRAFTING	176
E E-ELECTRICAL ENGINEERING	179
E T-ENGINEERING TECHNOLOGY	179
ECED-EARLY CHILDHOOD EDUCATION	182
ECON-ECONOMICS	184
EDLT-EDUCATIONAL TECHNOLOGY	184
EDUC-EDUCATION	184
ELAD-EDUCATIONAL LEADERSHIP ADMINISTRATION	185
ELT - ELECTRONICS TECHNOLOGY	185
ELWK-ELECTRICAL LINEWORKER	186
ENGL-ENGLISH	187
ENGR-ENGINEERING	189
ENTR-ENTREPRENEURSHIP	189
ENVS-ENVIRONMENTAL SCIENCE	189
EPWS-ETMLGY/PLNT PTHLGY/WD SCI	189
FCSC-FAMILY AND CONSUMER SCIENCES	189
FCST-FAMILY AND CHILD STUDIES	190
FDMA-FILM & DIGITAL MEDIA ARTS	190
FIRE-FIRE INVESTIGATION	194
FREN-FRENCH	196
FSTE-FOOD SCIENCE & TECHNOLOGY	197
FWCE-FISH,WILDLF,CONSERV ECOL	197
FYEX-FIRST YEAR EXPERIENCE	197
GENE-GENETICS	198
GEOG-GEOGRAPHY	198

GEOL-GEOLOGY	199	
GNDR-WOMEN'S STUDIES	199	
GRMN-GERMAN	199	
HIST-HISTORY	200	
HIT-HEALTH INFO TECHNOLOGY	201	
HLED-HEALTH EDUCATION	202	
HMSV-HUMAN SERVICES	202	
HNRS-HONORS	202	
HORT-HORTICULTURE	204	
HOST-HOSPITALITY AND TOURISM	204	
HRTM-HOTEL/RESTRNT/TOURISM MGT	205	
HVAC-HEATING/AC/REFRIGERATION	206	
I E-INDUSTRIAL ENGINEERING	207	
INMT - INDUSTRIAL MAINTENANCE	207	
INTEGRATED NATURAL SCIENCES	208	
JAPN-JAPANESE	208	
JOUR-JOURNALISM	209	
L SC-LIBRARY SCIENCE	209	
LANG-LANGUAGE	211	
LAWE-LAW ENFORCEMENT	211	
LIBR-LIBRARY SCIENCE	212	
LING-LINGUISTICS	212	
M E-MECHANICAL ENGINEERING	212	
M SC-MILITARY SCIENCE	213	
MAT-AUTOMATION & MANUFACTURING	213	
MATH-MATHEMATICS	214	
MGMT-MANAGEMENT	216	
MKTG-MARKETING	216	Pe
MUSC-MUSIC	216	Index
NA - NURSING ASSISTANT	218	
NAV-NAVAJO	220	
NGEC-NATURAL GAS ENGINE COMP	220	
NURS-NURSING	220	
NUTR-NUTRITION	224	
OATS-OFFICE ADMINISTRATION TECHNOLOGY SYSTEMS	224	
OEBM-BIOMEDICAL TECHNOLOGY		
OECS-COMPUTER TECHNOLOGY		
OEEM- PARAMEDIC		
OEET- ELECTRICAL TRADES		
OEGR-DIGITAL GRAPHIC TECH		
OEGS-GEOGRAPHIC INFO SYS		
	202	

0	DETS-TECHNICAL STUDIES	233
Ρ	PHED-PHYSICAL EDUCATION	233
Ρ	PHIL-PHILOSOPHY	234
Ρ	PHLS-PUBLIC HEALTH SCIENCES	234
Ρ	PHYS-PHYSICS	234
Ρ	PL-S-PARALEGAL SERVICES	236
Ρ	POLS-POLITICAL SCIENCE	237
Ρ	PORT-PORTUGUESE	238
Ρ	PSYC-PSYCHOLOGY	238
R	ADT-RADIOLOGIC TECHNOLOGY	238
R	RESP - RESPIRATORY THERAPY	239
R	GSC-RANGE SCIENCE	240
S	IGN-SIGN LANGUAGE	241
S	MET-SCIENCE/MATH/ENG/TECH	241
S	OCI-SOCIOLOGY	241
S	OIL-SOIL	241
S	OWK-SOCIAL WORK	242
S	PAN-SPANISH	242
S	PMD-SPORTS MEDICINE	243
S	PHS-SPEECH & HEARING SCIENCE	243
S	PED-SPECIAL EDUCATION	243
S	SUR-SURVEYING	244
S	SURG-SURGICAL TECHNOLOGY	244
Т	CEN-ENVIRONMENTAL/ENERGY TECH	245
Т	HEA-THEATER	247
V	VATR-WATER UTILITIES	248
V	VELD-WELDING TECHNOLOGY	249
Perso	onnel	250
ex		252

# ALAMOGORDO ACADEMIC CATALOG

### New Mexico State University Alamogordo Course Catalog 2020-2021 (Effective Summer 2020 through Spring 2028)

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, <u>asdnmsua@nmsu.edu</u>.

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). We are one of the four Community Colleges within the New Mexico State University system. NMSU-A is located on the foothills of the Sacramento Mountains, a beautiful setting that overlooks the Tularosa Basin. Our number one priority is to provide higher education to the diverse populations of our region. We offer quality courses to the next generation of college students, non-traditional students, and those seeking technical workforce skills. It is our mission to help citizens of our region and beyond improve their lives through education.

NMSU-A is dedicated to the success of all students with caring faculty and staff who promise to provide you opportunities and experiences that will help you complete your education. You will complete a degree or credential and establish the foundation for further education or lead the way to a well-paying workforce job.

Starting college at NMSU-A is a wise decision. The cost savings will add up to thousands of dollars over the course of your college education. We teach face-to-face and online courses that support a wide variety of degrees and certifications. The campus has state of the art facilities, fantastic faculty, wonderful staff, an excellent library, and convenient contemporary computer access. All of 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 course delivery system.

Customer service is the heart and soul of NMSU-A. We will help you with admissions, financial aid, scholarships, and advise you on a class schedule that will best fit your needs. Our focus is on your success through understanding, patience, and a real desire for you to accomplish your educational and career goals.

Welcome to NMSU-A.

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 reaffirmation of accreditation is scheduled for 2022-2023.

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.

### **Course Placement**

### **Course Placement for Math, English and Reading**

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 (MPE) score. Advisors will assist students in determining the best sequence of courses to meet their academic goals. More information about placement can be found at <a href="http://nmsua.edu/students/">http://nmsua.edu/students/</a>. Placement methodology and scoring are subject to change, and scores are valid for one year.

**Developmental Courses in Math** - For students without Math placement information, the NMSU Mathematics Placement Exam (MPE) is used to determine appropriate MATH course placement. Any entering 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. Students must complete all prerequisite math courses, as listed in the catalog, or obtain an override with appropriate approvals.

**Developmental Courses in English** - For students without ENGL placement information, the Accuplacer exam is used to determine appropriate ENGL course placement. Based on the score received, students will be placed into the appropriate developmental English course before enrolling in <u>ENGL 1110G</u> Composition I.

**Developmental Courses in Reading** - The Accuplacer exam is used to determine appropriate Reading course placement. Based on the placement score received, students will be placed into the appropriate developmental Reading (CCDR) course or course(s). Students with low reading scores on the placement exam may be encouraged to take courses through the Pathways and Career Education (PACE) program before enrolling in CCDR 110 N Effective College Reading.

# **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:

- 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 <u>www.ssa.gov</u>.
- · 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 and a master promissory note before NMSU will issue the funds. In addition, students are required to complete an exit interview upon graduation or withdrawal from the Student Loan Acknowledgment every academic year. Once Federal Loan Borrowers graduate, or withdraw from the institution, they must complete the Exit Counseling to avoid delays in receiving their transcripts or diplomas. Students may complete all these requirements at https://studentaid.gov

**Grants:** The Federal Pell Grant is a federal grant available to undergraduate students with documented financial need. Pell Grants range from \$649 to \$6345, 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/ 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. Students are responsible for applying for available positions using the NMSU Handshake application at <u>https://nmsu.joinhandshake.com/login</u>.

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 <u>http://nmsua.edu/student-services/financial-aid/scholarships/</u>.

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/</u> return-of-title-iv-funds/.

**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.

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

Prefix	Title	Credits
Area I: Communicatio	ns	10
Select one course from	n each sub group:	
English Composition-Le	evel 1	
ENGL 1110G	Composition I	
ENGL 1110H	Composition I Honors	
ENGL 1110M	Composition I Multilingual	
English Composition-Le	evel 2	
ENGL 2210G	Professional & Technical Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
ENGL 2130G	Advanced Composition	
ENGL 2215G	Advanced Technical and Professional Communication	
Oral Communication		
AXED 2120G	Effective Leadership and Communication in Agriculture	
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
HNRS 2175G	Introduction to Communications Honors	
Area II: Mathematics		3-4
MATH 1130G	Survey of Mathematics	
MATH 1220G	College Algebra	
MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1350G	Introduction to Statistics	
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
MATH 1521G	Calculus and Analytic Geometry II	
MATH 1521H	Calculus and Analytic Geometry II Honors	

MATH 2134G Fundamentals of Elementary Math II		
MATH 2350G	Statistical Methods	
MATH 2530G	Calculus III	
	Sciences and Social/Behavioral Sciences <sup>1</sup>	10-11
Area III: Laboratory Scie		
AGRO 1110G/ HORT 1115G	Introduction to Plant Science (Lecture & Lab)	
ANTH 1135G & ANTH 1135L	Introduction to Biological Anthropology and Introduction to Biological Anthropology Lab	
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
BIOL 1130G	Introductory Anatomy & Physiology (non- majors)	
BIOL 1190G	Contemporary Problems in Biology	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution	
& BIOL 2010L	and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
C S 171G	Introduction to Computer Science	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
ENVS 1110G	Environmental Science I	
FSTE 1110G	Introduction to Food Science and Technology	
FSTE 2110G	Food Science I	
FWCE 1110G	Introduction to Natural Resources Management	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	
HNRS 2116G	Earth, Time and Life	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1125G	Physics of Music	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
PHYS 2230G & PHYS 2230L	General Physics for Life Science I and Laboratory to General Physics for Life Science I	
PHYS 2240G & PHYS 2240L	General Physics for Life Science II and Laboratory to General Physics for Life Science II	
Area IV: Social/Behavio	ral Sciences	
AEEC/FSTE 2130G	Survey of Food and Agricultural Issues	
ANTH 1115G	Introduction to Anthropology	
ANTH 1137G	Human Ancestors	

ANTH 1140G	Introduction to Cultural Anthropology		HNRS 2160G	New Testament as Literature	
ANTH 1140G	Introduction to Cultural Anthropology World Archaeology		HNRS 21700	The Worlds of Arthur	
ANTH 1100G			HNRS 2171G	Middle Ages	
CEPY 1120G	Indigenous Peoples of North America Human Growth and Behavior		HNRS 2175G		
	Introduction to Criminal Justice			Democracies, Despots and Daily Life	
CJUS 1110G			HNRS 2190G	Claiming a Multiracial Past	
ECON 1110G	Survey of Economics		PHIL 1115G	Introduction to Philosophy	
ECON 2110G	Macroeconomic Principles		PHIL 1120G	Logic, Reasoning, & Critical Thinking	
ECON 2110H	Principles of Macroeconomics Honors		PHIL 1140G	Quest for God	
ECON 2120G	Microeconomics Principles		PHIL 1145G	Philosophy, Law, and Ethics	
ECON 2120H	Principles of Microeconomics Honors		PHIL 1155G	Philosophy of Music	
GEOG 1120G	World Regional Geography		PHIL 2110G	Introduction to Ethics	
GEOG 1130G	Human Geography		PHIL 2230G	Philosophical Thought	
GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies		Area VI: Creative and		3
GNDR 2120G	Representing Women Across Cultures		ARTH 1115G	Orientation in Art	
HNRS 2161G	Window of Humanity		ARTS 1145G	Visual Concepts	
HNRS 2170G	The Human Mind		ARTH 2110G	History of Art I	
HNRS 2170G	Archaeology: Search for the Past		ARTH 2120G	History of Art II	
HNRS 2172G			DANC 1110G	Dance Appreciation	
HNRS 2174G	American Politics in a Changing World Citizen and State Great Political Issues		HNRS 2114G	Music in Time and Space	
			HNRS 2115G	Encounters with Art	
JOUR 105G	Media and Society		HNRS 2130G	Shakespeare on Film	
LING 2110G	Introduction to the Study of Language and Linguistics		HNRS 2178G	Theatre: Beginnings to Broadway	
PHLS 1110G	Personal Health & Wellness		MUSC 1110G	Music Appreciation: Jazz	
POLS 1110G	Introduction to Political Science		MUSC 1130G	Music Appreciation: Western Music	
POLS 1120G	American National Government		THEA 1110G	Introduction to Theatre	
POLS 1130G	Issues in American Politics		THEA 1210G	Acting for Non-Majors	
POLS 2120G	International Relations		General Education El	ective	3-4
PSYC 1110G	Introduction to Psychology			can be met with any 'G' course in any area,	
SOCI 1110G	Introduction to Psychology		excluding Area I: C exceeds the minin	Communications and any crosslisted courses, that	
SOCI 2310G	Contemporary Social Problems		or	num requirement.	
SOWK 2110G	Introduction to Human Services & Social Work		ENGR 100G	Introduction to Engineering	
Area V: Humanities	Introduction to Human Services & Social Work	3		Introduction to Engineering H Introduction to Engineering Honors	
ENGL 1410G	Introduction to Literature	Ū	Total Credits		32-35
ENGL 2310G	Introduction to Creative Writing		Total Cledits		32-33
ENGL 2520G	Film as Literature		<sup>1</sup> For Area III: Lal	boratory Sciences and Area IV: Social/Behaviora	ıl
ENGL 2650G	World Literature I			ents <i>must</i> take one course from each for a total	
HIST 1105G	Making History		credits.		
HIST 1110G	United States History I		Students will the	hen take an additional course in either Area III or	Area
HIST 1120G	United States History II			ts depending on the students selection (i.e. Area	allis 4
HIST 1130G	World History I		credits, Area IV	/ is 3 credits).	
HIST 1140G	World History II		Alternatives for N	leeting General Education Requirements	
HIST 1150G	Western Civilization I			ne or more credits in a specific subject area, even	n
HIST 1160G	Western Civilization II		-	s are not designated as General Education cours	
HIST 2245G	Islamic Civilizations to 1800		-	eneral education requirements for that subject a	
HIST 2246G	Islamic Civilizations since 1800		-	dent may complete ARTS 2610 Drawing II, ARTS	
HIST 2250G	East Asia to 1600		Design I and ARTS	1250 Design II (9 hours) and thereby satisfy one	è
HIST 2251G	East Asia since 1600		course from the Ar	ea VI: Creative and Fine Arts category, even thou	ıgh
HNRS 2110G	The Present in the Past: Contemporary Issues		none of those cour	rses carries a G suffix. Please check with the Cer	nter for
	and their Historical Roots			g and Student Support.	
HNRS 2117G	The World of the Renaissance: Discovering the Modern			sociate Degree	
HNRS 2120G	Foundations of Western Culture			co General Education Requirements	
HNRS 2140G	Plato and the Discovery of Philosophy			at NMSU provides all students with a broad four	
HNRS 2141G	Bamboo and Silk: The Fabric of Chinese Literature			ework upon which to develop knowledge and ski ess and respect for self and others, thus enabling	
HNRS 2145G	Celtic Literature				

to function responsibly and effectively now and in the future. General education courses at NMSU can be identified by the G suffix.

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

Prefix	Title	Credits
Select one course fro total of 12-14 credits	m four of the following six content areas for a	12-14
	must be from a different area and students courses in the same area.	
Area I: Communication		
AXED 2120G	Effective Leadership and Communication in	
	Agriculture	
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
ENGL 1110G	Composition I	
ENGL 1110H	Composition I Honors	
ENGL 1110M	Composition I Multilingual	
ENGL 2210G	Professional & Technical Communication	
ENGL 2210H	Professional and Technical Communication Honors	
ENGL 2221G	Writing in the Humanities and Social Science	
HNRS 2175G	Introduction to Communications Honors	
Area II: Mathematics		
MATH 1130G	Survey of Mathematics	
MATH 1220G	College Algebra	
MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1350G	Introduction to Statistics	
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
MATH 1521G	Calculus and Analytic Geometry II	
MATH 1521H	Calculus and Analytic Geometry II Honors	
MATH 2134G	Fundamentals of Elementary Math II	
MATH 2350G	Statistical Methods	
MATH 2530G	Calculus III	
Area III: Laboratory Sci		
AGRO 1110G/	Introduction to Plant Science (Lecture & Lab)	
HORT 1115G		
ANTH 1135G	Introduction to Biological Anthropology	
& ANTH 1135L	and Introduction to Biological Anthropology Lab	
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
BIOL 1130G	Introductory Anatomy & Physiology (non- majors)	
BIOL 1190G	Contemporary Problems in Biology	
BIOL 2110G	Principles of Biology: Cellular and Molecular	
& BIOL 2110L	Biology	
	and Principles of Biology: Cellular and	
	Molecular Biology Laboratory	

	BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and
	& BIOL 2610L	Evolution and Principles of Biology: Biodiversity, Ecology,
		and Evolution Laboratory
	C S 171G	Introduction to Computer Science
	CHEM 1120G	Introduction to Chemistry Lecture and
		Laboratory (non majors)
	CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors
	CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors
	CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors
	CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors
	ENVS 1110G	Environmental Science I
	FSTE 1110G	Introduction to Food Science and Technology
	FSTE 2110G	Food Science I
	GEOG 1110G	Physical Geography
	GEOL 1110G	Physical Geology
	HNRS 2116G	Earth. Time and Life
	PHYS 1115G	Survey of Physics with Lab
	PHYS 1125G	Physics of Music
	PHYS 1230G	Algebra-Based Physics I
	& PHYS 1230L	and Algebra-Based Physics I Lab
	PHYS 1240G	Algebra-Based Physics II
	& PHYS 1240L	and Algebra-Based Physics II Lab
	PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab
	PHYS 1320G	Calculus -Based Physics II
	& PHYS 1320L	and Calculus -Based Physics II Lab
	PHYS 2230G & PHYS 2230L	General Physics for Life Science I and Laboratory to General Physics for Life
	PHYS 2240G	Science I General Physics for Life Science II
	& PHYS 22400	and Laboratory to General Physics for Life
		Science II
Ar	ea IV: Social/Behavior	al Sciences
	AEEC/FSTE 2130G	Survey of Food and Agricultural Issues
	ANTH 1115G	Introduction to Anthropology
	ANTH 1137G	Human Ancestors
	ANTH 1140G	Introduction to Cultural Anthropology
	ANTH 1160G	World Archaeology
	ANTH 2140G	Indigenous Peoples of North America
	CEPY 1120G	Human Growth and Behavior
	CJUS 1110G	Introduction to Criminal Justice
	ECON 1110G	Survey of Economics
	ECON 2110G	Macroeconomic Principles
	ECON 2110H	Principles of Macroeconomics Honors
	ECON 2120G	Microeconomics Principles
	ECON 2120H	Principles of Microeconomics Honors
	GEOG 1120G	World Regional Geography
	GEOG 1130G	Human Geography
	GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies
	GNDR 2120G	Representing Women Across Cultures
	HNRS 2161G	Window of Humanity
	HNRS 2170G	The Human Mind
	HNRS 2172G	Archaeology: Search for the Past

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

	HNRS 2114G	Music in Time and Space	
	HNRS 2115G	Encounters with Art	
	HNRS 2130G	Shakespeare on Film	
	HNRS 2178G	Theatre: Beginnings to Broadway	
	MUSC 1110G	Music Appreciation: Jazz	
	MUSC 1130G	Music Appreciation: Western Music	
	THEA 1110G	Introduction to Theatre	
	THEA 1210G	Acting for Non-Majors	
Ge	tive	3-4	
	This requirement ca excluding any cross	n be met with any 'G' course in any area, listed courses.	
or			
	ENGR 100G	Introduction to Engineering	
	or ENGR 100GH	Introduction to Engineering Honors	
Тс	15-18		

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

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

### **Graduation Requirements**

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 eight 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, 2020, and are in effect through the spring semester 2028.

### Associate's Degree

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

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

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

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

#### **Associate Major**

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

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

### **Certificate of Achievement**

The Certificate of Achievement is a program of study less than 16 credits and is not eligible for Federal financial aid. This Certificate provides employment related and/or career enhancing skills necessary to succeed in a job or a chosen field of study. These courses can be a subset of those required for a corresponding Certificate of Completion

or Applied Associates Degree. These certificates are recorded on the student's transcript. The following requirements apply to all certificates of achievements:

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

**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 http://registrar.nmsu.edu/transcripts/. 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.

## **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.
- 2. 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 ENGL 1105M Intermediate ESL Composition and Grammar Review (a bridge course designed to ensure success in ENGL 1110M), or allowed to enroll directly into ENGL 111 M. International students excused from ENGL 1105M Intermediate ESL Composition and Grammar Review will be required to take ENGL 1110M. 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 ENGL 1105M are determined by CELP, and equivalencies for ENGL 1110M Composition I Multilingual or ENGL 1110G 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.
- 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.
- 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 semesterJuly 15 (all documents submitted)for fall semester

October 1\* (Study Aboard and CELP for spring semester Programs)

November 15 (application initiate	d) for spring semester
December 1 (all documents	for spring semesters
submitted)	

\* 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.
- 2. 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:
  - 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.

#### NMSU Alamogordo

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

# 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

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

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

Provide 90 days after the date the institution certified tuition and fees following the receipt of the COE

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: <u>veteransNMSUA@nmsu.edu</u>

**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: <u>veteransNMSUA@nmsu.edu</u>

**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: <u>veteransNMSUA@nmsu.edu</u>

**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: <u>veteransNMSUA@nmsu.edu</u>

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<sup>®</sup>-Active Duty (CH30)
- Dependents (CH35)
- Montgomery GI Bill<sup>®</sup>-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 <a href="http://nmsua.edu/student-services/veterans-programs/">http://nmsua.edu/student-services/veterans-programs/</a>. 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 <u>veteransNMSUA@nmsu.edu</u>

**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
- 3. 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: http://nmsua.edu/military/active-duty-and-their-dependents/.

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: <u>veteransNMSUA@nmsu.edu</u>

**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) 646-4431 or you can email <u>marpaz@nmsu.edu</u> or <u>colling@nmsu.edu</u>.

#### 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: <u>veteransNMSUA@nmsu.edu</u>

## **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 semester<sup>1</sup>. 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,<sup>2</sup>
- 5. recognition in the commencement program<sup>3</sup>, and
- 6. a lapel pin<sup>4</sup>.

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 1170 or better **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 credits<sup>1</sup> at NMSU.
- Transfer students must have a 3.5 cumulative GPA from their previous institution(s) or complete 3 or more credits<sup>1</sup> at NMSU for eligibility and must maintain a 3.5 cumulative GPA to continue in the program.

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 credits<sup>1</sup> 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 spring and fall 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.

- <sup>1</sup> Does not include *I* grade, *N* grade, or audit course designations at NMSU.
- <sup>2</sup> 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.
- <sup>3</sup> 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 (calculated the semester before graduation).
- <sup>4</sup> 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.

## **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. Online applications for admission are available at https://nmsua.edu/admissions.

**Bookstore:** NMSU Alamogordo utilizes a virtual bookstore with Follett 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 <u>https://www.bkstr.com/nmsustore</u> 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 http://nmsua.edu/career 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 Student Services. The card is required to sign in at Student Services, 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 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 approximately 35,000 books and 75 magazines in print format, as well as over 3,500 videos. Townsend Library also provides individual study spaces and group study rooms. Research assistance is available on a "drop in" basis, as well as through formal 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.

**Student Center:** The Student Center serves as a central recreational and leisure area for the NMSU-A student population. It houses a Veterans lounge, a recreation room with game tables, quiet study space, and work areas for Continuing Education. The cafe is open regular hours for breakfast and lunch.

**Student Conduct:** 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 be found 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. Students may contact an Advisor by phone (439-3600), by email at advisingnmsua@nmsu.edu (%20advisingnmsua@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-forservice 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 contact the NMSU-A Accessibility Services Coordinator at (575) 439-3721 to obtain the "Petition for Accommodation" form. Accommodations are available at any time during the semester, but students are encouraged to contact the office prior to the start of the semester. 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/EE0 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 for the fall, spring, and summer semesters. 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 or call (575) 479-4318.

### **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 Student Services Office. Procedures for obtaining the base vehicle pass can be found at <u>http://nmsua.edu/military/</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. 94)
- <u>Business Management (Accounting/Bookkeeping), Associate of</u> <u>Applied Science Degree</u> (p. 97)
- <u>Business Management (Administrative Support)</u>, Associate of Applied <u>Science Degree</u> (p. 98)

- <u>Business Management (General Management), Associate of Applied</u> <u>Science Degree</u> (p. 99)
- Criminal Justice, Associate Degree (p. 104)
- Leadership Skills, Certificate (p. 101)
- Legal Assistant, Certificate (p. 126)
- Paralegal Studies, Associate of Applied Science Degree (p. 127)
- Prebusiness, Associate Degree (p. 129)
- Science, Associate Degree (p. 133)

All online courses have been reviewed externally and have met the Higher Education Quality Matters<sup>™</sup> Standards for course design. This process utilizes the nationally accepted 42 Specific Review Standards of the Quality Matters<sup>™</sup> 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 <u>NMSU Online Degree Programs</u>.

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 <u>www.nmsbdc.org</u>.

# **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. 'Have you ever wanted a safe place to discuss questions like; Does my life have any meaning, value, or purpose? Does truth really exist? How do we know the difference between right and wrong, good and evil? Campus Christian Fellowship is here to help you answer these questions! Join us for prayer and Bible study!

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 within the Alamogordo community the 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. 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.

# **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**

- 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.
- 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:

- 1. 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.
- 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 (<u>http://nmsudirect.nmsu.edu/</u>) 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.

- 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.
- 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).
- 2. 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

### **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 <a href="http://nmsua.edu/business-office/tuition-fees/">http://nmsua.edu/business-office/tuition-fees/</a>.

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 <u>University Accounts Receivable</u> website  $^{1,2,3}$ .

- Residents In-District (NM residents living in Zip Code areas of 88310, 88311, 88325, 88330, 88337, 88342)
- <sup>2</sup> Residents Out-of-District (NM residents not living in the In-District Zip Codes listed above.)
- <sup>3</sup> 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 10 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:** A \$10 payment plan will be assessed each month for late, partial, or missed payments. For information on payment plans, visit <u>student-accounts.nmsu.edu</u>.

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

Late Registration Fee: A late registration penalty of \$25 (non-refundable) 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.

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.

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 information, go to student-accounts.nmsu.edu. 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 and transcripts 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

### **Payment Plan**

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

### The NMSU System Academic Regulations

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

The regulations section is broken down into different areas:

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

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

### **Additional Degree Designations**

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

### **Catalog Effective Period**

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

# Application for Degree/Graduation or Certificate

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

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

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

### **Multiple Degrees and Designations**

A student may earn more than one degree or multiple degree designations by completing all of the requirements in an appropriate

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

### **Degree Revocation**

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

### **Honorary Degrees**

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

### **Community College Certificate**

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

### **Certificate of Achievement**

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

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

### **Certificate of Completion**

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

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

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

### Associate's Degree

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

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

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

- 1. **Minimum Credit Hours:** a minimum of 60 credits (excluding "N" suffix courses). Some programs of study require coursework in excess of the 60 credit-hour minimum.
- New Mexico General Education- state mandated general education courses (as specified in General Education section); such course are designed with a "G"
  - a. For Associates Degrees: 32-35 credits
  - b. For Applied Associates Degrees: 15-18 credits
- GPA requirement: Students must have a cumulative GPA of 2.0 or better in all courses taken at NMSU or one of its community colleges. In addition, students must earn a C- or better in classes they take to meet the Basic Skills requirement (ENGL 1110G and one of several math course options),
- 4. **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.
- 5. **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
- 3. New Mexico General Education- 32-35 credits of state mandated general education courses (as specified in General Education section); such course are designed with a "G"
- New Mexico State University's Viewing a Wider World- 6 credits of Viewing a Wider World courses; such courses are designated with a "V", or alternatives as specified in the Viewing a Wider World section
- 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.

7. Major – all requirements for at least one undergraduate major field of study, other than a supplemental major, as specified in the college and departmental sections of the catalog. As an undergraduate student seeking a baccalaureate degree you are expected to declare a major prior to earning 45 credit hours toward your degree. You should complete your general education requirements within your first 90 credit hours earned.

### **Bachelor's Degree Designations**

### **Undergraduate Major**

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

### **Supplemental Major**

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

#### **Undergraduate Minor**

An undergraduate minor consists of 18 credits of course work, of which 9 credits must be upper-division (300-499). A minor encompasses courses that may be in a single department or interdisciplinary and are in a

recognized field of study outside the student's declared major. At least 9 upper-division credits of a minor must be completed at NMSU. Additional requirements for minors are specified in the college and department's designated sections of this catalog. Minors cannot be earned after the degree has been conferred.

### **Undergraduate Concentration**

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

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

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

### **Graduating with Honors**

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

### **Graduate Degrees**

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

### Graduate Degree Designations Graduate Major

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

### **Graduate Minor**

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

### **Graduate Concentrations**

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

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

- 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 <u>https://gradschool.nmsu.edu/wp-content/uploads/sites/5/2019/02/2.-</u> <u>Preparing-Your-Manuscript-for-Submission-Revised.pdf</u>. The guidelines also contain detailed information on the thesis submission and approval process. The thesis is not complete until the Graduate School has accepted it electronically.

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

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

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

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

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

Any candidate who fails in the final examination may either.

- Be granted a second examination, written or oral, after a lapse of at least one semester, only with a recommendation from the student's advisor and approval from the Dean of the Graduate School.
- 2. Be excluded from further candidacy for the degree.
- 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. Inclusion of any coursework more than seven years old at the time of the final examination will be at the discretion of the department.

### Master's Accelerated Program (MAP)

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

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

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

#### **Program Participation Requirements:**

- 1. Students must obtain prior approval by the graduate program
- Student's course work must be general or discipline electives in the student's undergraduate course of study. No required courses from the undergraduate program will be accepted towards the Master's Accelerated Program.
- Students will enroll in approved graduate level courses. If course(s) requires instructor approval, it is the students responsibility to obtain necessary approval
- 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.

- 4. 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:

- The student must present a written description of the program concept consisting of the following, as well as, the designated degree being sought and a name of the interdisciplinary area:
  - a. The objective of the program of study which should include, proposed areas of skill development and proposed courses in more than one graduate degree granting department at NMSU.
  - b. A justification for not using an existing degree program.
- 2. 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.
- 7. The program of study will include the completion of a research thesis or project. The work may be submitted in the form of a publishable manuscript, technical report, thesis or creative option.
- 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.
- 10. The final oral comprehensive exam will consist of questions pertinent to the area of study and the defense of the research thesis or project.

In both cases, an integrated approach to the areas of study chosen should be followed.

11. All other rules for graduate study at NMSU must be followed.

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

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

### **Comprehensive Exam**

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

### Second Master's Degree

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

### **Teacher Licensure**

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

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

### **Specialist in Education**

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

### **Residency and Credit Requirements**

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

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

### **Program of Study**

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

#### **Major Field**

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

#### Candidacy

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

#### Internship

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

#### **Oral Examination**

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

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

### **Time Limit**

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

### **Doctoral Degrees**

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

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

### Professional Doctoral Degrees

### Doctor of Economic Development (DED)

Students enrolled in the Doctor of Economic Development are required to complete and pass a comprehensive examination. Since a dissertation is not required, students are expected to complete an internship experience and a project paper as defined by their program. They can embark on the project paper once they have completed and passed their comprehensive examination. Students are not required to take 700 level dissertation

hours. However, they are expected to complete at least 12 credits at the 600 level including ECDV 694 Internship and ECDV 699 Doctoral Project.

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

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

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

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

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

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

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

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

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

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

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

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

#### **Interdisciplinary Doctorate**

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

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

- Students wishing to study in the interdisciplinary doctoral degree program must apply and be accepted into a doctorate-granting department.
- A master's degree or equivalent program of study that includes at least 30 credits of graduate course work with a minimum cumulative GPA of 3.0.
- 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.
- 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:

- 1. 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.
- 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 disgualifies the candidate from obtaining the degree.

#### **Finalizing the Doctoral Dissertation**

After successful completion of the final examination, electronic submission of the approved dissertation must be submitted to ProQuest ETD, no later than the deadline posted to the Graduate School website. The format review of dissertation will be performed electronically by the Graduate School. The form and style of the dissertation must comply with the regulations given in Preparing your manuscript for submission located at <u>https://gradschool.nmsu.edu/doctoral-dissertation-students/</u>. The 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 <u>University Student Records Office (USRO)</u>.

### **Admission Requirement**

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

### **Course Schedule**

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

### **Registration Schedule by Classification**

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

### **University Credits**

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

### **Course Load for Undergraduate Students**

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

An overload is classified as more than 18 credits for a regular semester and more than 12 credits for the summer term. A one-credit course in physical education or supplemental instruction will not create an overload. Registration for a course overload requires written permission from the Director of the Center for Academic Advising and Student Support or the Associate Dean for Academics in the student's college. A "<u>Undergraduate Change of Schedule</u>" form is required and available from the University Student Records Office or on their <u>website</u>. 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 in a regular semester (fall or spring) is 9 credits, with a maximum of 15 graded credits. A full-time course load for a summer term is 6 credits with a maximum of 9 credits.

### **Course Numbering**

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

Undergraduate courses are assigned numbers 100-499. Courses numbered 100-299 are referred to as "lower-division courses" and are primarily for Freshman and Sophomore level students. Courses numbered 300-499 are referred to as "upper-division courses" and are primarily for Junior and Senior level students.

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

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

### **Prerequisites and Corequisites**

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

### **Registration Changes**

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

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

Adding Courses: There are two different types of deadlines for adding 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 "<u>Undergraduate Change of</u> <u>Schedule</u>" or the '<u>Graduate Change of Schedule</u>' form signed by the instructor (available online on the <u>University Student Records Office</u> <u>website</u>).

\* 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 <u>registrar@nmsu.edu</u> with the student's name, ID number and course CRN number they are wanting to add.

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

- Last day to drop without a "W" grade during this period, the student can drop the course and not have it appear on their official transcript in any form, and the student will have no financial obligation related to the course (students will receive a 100% refund if tuition has been paid for the course).
- 2. 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 "<u>Undergraduate Change of Schedule</u>" or the '<u>Graduate Change of</u> <u>Schedule</u>' to add a course.

## Graduate Registration Requirements for Summer

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

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

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

### **Substitutions and Waivers**

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

### Auditing a Course (No Credit)

An audited course is one in which the student registers for the learning experience but does not seek to earn academic credit for the course. A student seeking to audit a course must register and pay tuition and fees

for the course and have the consent of the instructor to take the class in audit form. A student who has registered to audit a course may be dis-enrolled from the course at any time before the registration deadline expires if necessary to accommodate a student taking the course for credit. After the last day to register, the student cannot change the course option from audit course to a for credit bearing course.

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

### **Attendance and Student Performance**

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

## Absences from Class and Failure to Complete Assignments

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

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

### **Classroom Conduct**

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

### **Student Performance Assessment**

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

### **Academic Program Assessment**

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

Academic Program Assessment requires participation of students who are expected to provide feedback on personal, professional and academic development and to participate in a variety of assessment exercises. Assessment activities may be a part of regular graded course assignments, or may require students to engage in other activities. Assessments may include course projects, exams, exit interviews, standardized tests, surveys, focus groups, etc. Data gathered through these assessments is published only in aggregate form. Learn more about NMSU's Academic Program Assessment at <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/or alternative placement assessments. The student's eligibility to enroll in university level English and Mathematics courses is dependent upon this evaluation. Students who have not demonstrated adequate preparation for university level courses are required to take developmental courses. Developmental courses are included on the transcript and will be included in the calculation of the GPA, but the developmental course credits do not count towards a degree.

### **Basic Academic Skills**

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

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

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

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

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

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

**Credits from Non-accredited Institutions** - As a general rule, NMSU does not accept credits from non-accredited institutions. Students with 3

or more credits of college-level English composition with a grade of C- or higher from a non-accredited institution may, however, challenge the Basic Academic Skills requirement in English and ENGL 1110G Composition I course requirement by submitting a theme paper written under the supervision of, and demonstrating achievement of ENGL 1110G Composition I learning outcomes as determined by, the Department of English.

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

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

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

## Independent Study and Directed Reading Courses

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

### **Adjusted Credit Option**

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

- 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.
- 2. 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 <u>Financial Aid</u> 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
С	2.0
C-	2.0
D+, D, D-	1.0
F	0
W- Withdrawal	0
N- Grade not submitted	0

CR- Credit authorized, but not letter grade	0
IP- In progress	0
RR- Progress in undergraduate course	0
PR- Progress in graduate thesis	0
S- Satisfactory work <sup>1</sup>	0
U- Unsatisfactory work	0
I- Incomplete work	0
AU- Audit	0

<sup>1</sup> 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.) Non-degree seeking students may take courses under the S/U option without regard to eligibility requirements. However, these courses may not be subsequently applied toward an undergraduate degree at 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 (academic warning, probation or suspension) depends on the date the transaction is officially recorded on the student's academic record. If the transaction is recorded before the student begins another semester, the grade change (such as replacing the I grade with an earned grade) is included in the grade-point average calculation in order to establish the student's academic standing. If the transaction is recorded after the student begins another semester, for the purpose of calculating academic standing, the new grade is included with any other grades earned for the semester in which the grade change is processed.

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

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

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

### **Grade Point Average**

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

### **Grading in Graduate Research**

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

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

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

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

### Withdrawal from a Single Course

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

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

## Leave of Absence from the Graduate School

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

A graduate student on leave of absence will be expected not to use university facilities and place no demands upon the university faculty and staff, and, therefore will pay no fees. Time spent in the "leave-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**

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

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

## **Military Withdrawal**

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

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

- 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.
- 2. **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 University Student Records Office, located on the Las Cruces Campus

Students who withdraw from all courses for the semester should do so in person through the University Student Records Office. However, students who are unable to come in person may submit an e-mail using their NMSU e-mail account to 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: http://registration.nmsu.edu.

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

### **Applying for a Degree**

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

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

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

## Attendance at the Commencement Ceremony

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

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

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

### **Academic Regalia**

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

### Diploma

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

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

### **Undergraduate Academic Standing**

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

### **Undergraduate Academic Warning**

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

While under Academic Warning the following restrictions apply:

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

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

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

### **Undergraduate Academic Probation I**

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

Under Academic Probation I the following conditions apply:

- 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 may enter into a contract or individualized education plan with their advisor and approved by the associate dean or CAO that place further stipulations on Academic Probation I. The associate dean or CAO may place the student on Academic Probation II or Academic Suspension should the student not adhere to the stipulations of the contract.
- Students on Academic Probation receiving educational benefits from the Veterans' Administration must obtain counseling from the Military & Veterans Programs Office.
- 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.
- 2. As with rule 2 under Academic Warning and Academic Probation I and at the discretion of the associate dean or CAO, the student will be required to enter into a contract with their advisor, approved by the associate dean or CAO, to place further stipulations on Academic Probation II.

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

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

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

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

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

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

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

### **Academic Suspension**

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

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

### Summer Attendance Impact on Academic Standing

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

# **Graduate Academic Probation and Suspension**

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

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

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

#### Graduate Academic Suspension:

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

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

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

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

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

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

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

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

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

#### **Policies**

- <u>ARP 5-10</u>
- <u>ARP 5-11</u>

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

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

#### **Flowchart of Procedures**

• ARP Appendix 5.11-A

## **Privacy Rights**

The following information has been designated as directory information and is subject to release to the public under the Buckley Amendment (PL 98-380), "The Family Educational Rights and Privacy Act of 1974." student's name, class level, college and major, dates of attendance, degree(s) earned, honors and awards, address, telephone number, NMSU email address, Aggie ID number, most recent previous educational institution attended, place of birth, and some information about students involved in recognized activities and sports. Other information regarding disclosure of student data is posted on the <u>University Student Records Office website</u> and in the University Student Records Office (USRO), in compliance with the Act.

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

# Social Security Numbers in Student Records

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

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

### **Change in Demographic Information**

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

- Legal name change: students will need one legal documentation with the new name on it. This can be a Government Issued ID (drivers license, state card or valid passport), a Birth Certificate, a Court Order, a Marriage Certificate/Divorce Decree or a Certificate of Naturalization/I551 Card. Note: Documentation is not required to add/ delete hyphen, space, apostrophe, or to abbreviate a middle name to initial.
- 2. Citizenship change: Certificate of Naturalization or I551 card.
- Social Security Number Update: students will need to provide an original signed Social Security Card. Unsigned cards will not be accepted.
- 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 University Student Records Office at (575) 646-3411.

# Changes in Residency Status for Tuition Purposes

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

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

For specific information about the process of petitioning for In-State Residency or for information about who is eligible for residency for tuition purposes please visit the <u>https://records.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://records.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.

### **Common Course Numbering Crosswalk**

<u>The Post-secondary Education Articulation Act</u> 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.

Past Course	Course Type Indicator
ACCT 221	Common
ACCT 222	Common
ACES 121	Unique
ACES 199	Unique
AG E 100	Common
AG E 101	Unique
AG E 236	Unique
AG E 260	Unique
AG E 210G	Unique
AG E 250	Unique
AG E 200	Unique
AG E 300	N/A
AG E 305	N/A
AG E 311	N/A
AG E 313	N/A
	ACCT 221 ACCT 222 ACES 121 ACES 199 AG E 100 AG E 101 AG E 236 AG E 236 AG E 260 AG E 210G AG E 210G AG E 200 AG E 300 AG E 305 AG E 311

AEEC 314	AG E 314	N/A
AEEC 314 AEEC 315V	AG E 314 AG E 315V	N/A N/A
AEEC 325	AG E 325	N/A
AEEC 337V	AG E 337	N/A
AEEC 340	AG E 340	N/A
AEEC 342	AG E 342	N/A
AEEC 350	AG E 350	N/A
AEEC 375	AG E 375	N/A
AEEC 384	AG E 384	N/A
AEEC 385	AG E 385	N/A
AEEC 400	AG E 400	N/A
AEEC 406	AG E 406	N/A
AEEC 420	AG E 420	N/A
AEEC 425	AG E 425	N/A
AEEC 445V	AG E 445V	N/A
AEEC 451	AG E 451	N/A
AEEC 452	AG E 452	N/A
AEEC 456	AG E 456	N/A
AEEC 458	AG E 458	N/A
AEEC 470	AG E 470	N/A
AEEC 499	AG E 499	N/A
AGRO-AGRONOMY		
AGRO 1110G	AGRO 100G	Common
AGRO 2160	AGRO 250	Unique
AGRO 2996	AGRO 200	Unique
ANSC-ANIMAL SCIENCE		
ANSC 1110	ANSC 220	Common
ANSC 1120	ANSC 100	Common
ANSC 1120H	ANSC 100 H	Unique
ANSC 1120L	ANSC 100 L	Unique
ANSC 1130	ANSC 190	Unique
ANSC 1140	ANSC 205	Unique
ANSC 1160	ANSC 103	Unique
ANSC 1170	ANSC 261	Unique
ANSC 1180	ANSC 112	Unique
ANSC 2120	ANSC 288	Common
ANSC 2130	ANSC 290	Common
ANSC 2140	ANSC 285	Unique
ANSC 2150	ANSC 289	Unique
ANSC 2160	ANSC 295	Unique
ANSC 2310	ANSC 262	Common
ANSC 2330	ANSC 200	Common
ANSC 2340	ANSC 201	Common
ANSC 2996	ANSC 250	Unique
ANTH-ANTHROPOLOGY		
ANTH-ANTHROPOLOGY ANTH 1115G	ANTH 201G	Common
	ANTH 201G ANTH 130G	Common Common
ANTH 1115G ANTH 1135G	ANTH 130G	
ANTH 1115G	ANTH 130G ANTH 130GL	Common Common
ANTH 1115G ANTH 1135G ANTH 1135L ANTH 1136	ANTH 130G ANTH 130GL ANTH 118	Common Common Unique
ANTH 1115G ANTH 1135G ANTH 1135L ANTH 1136 ANTH 1137G	ANTH 130G ANTH 130GL ANTH 118 ANTH 120G	Common Common Unique Unique
ANTH 1115G ANTH 1135G ANTH 1135L ANTH 1136	ANTH 130G ANTH 130GL ANTH 118	Common Common Unique

ANTH 2140G	ANTH 115	Common
ANTH 2150	ANTH 116	Common
ANTH 2996	ANTH 297	Unique
ARCH-ARCHITECTURE		onque
ARCH 1105	ARCT 150	Unique
ARCH 1110	ARCT 104	Common
ARCH 1112	ARCT 124	Unique
ARCH 1114	ARCT 154	Unique
ARCH 1120	ARCT 101	Common
ARCH 1121	ARCT 170	Unique
ARCH 1122	ARCT 204	Unique
ARCH 1220	ARCT 111	Unique
ARCH 2111	ARCT 210	Unique
ARCH 2113	ARCT 224	Unique
ARCH 2114	ARCT 250	Unique
ARCH 2115	ARCT 254	Unique
ARCH 2116	ARCT 260	Unique
ARCH 2122	ARCT 274	Unique
ARCH 2124	ARCT 295	Unique
ARCH 2220	ARCT 211	Unique
ARCH 2994	ARCT 264	Unique
ARCH 2995	ARCT 291	Unique
ARCH 2996	ARCT 290	Unique
ARTH-ART HISTORY		
ARTH 1115G	ART 101G	Common
ARTH 2110G	ART 295G	Common
ARTH 2120G	ART 296G	Common
ARTH 300	ART 300	N/A
ARTH 305	ART 305	N/A
ARTH 306	ART 306	N/A
ARTH 310	ART 310	N/A
ARTH 311	ART 311	N/A
ARTH 312	ART 312	N/A
ARTH 321	ART 321	N/A
ARTH 323	ART 323	N/A
ARTH 325	ART 325	N1/A
		N/A
ARTH 329	ART 329	N/A N/A
ARTH 329 ARTH 330		
	ART 329	N/A
ARTH 330	ART 329 ART 330	N/A N/A
ARTH 330 ARTH 333	ART 329 ART 330 ART 333	N/A N/A N/A
ARTH 330 ARTH 333 ARTH 336	ART 329 ART 330 ART 333 ART 336	N/A N/A N/A N/A
ARTH 330 ARTH 333 ARTH 336 ARTH 337	ART 329 ART 330 ART 333 ART 336 ART 337	N/A N/A N/A N/A
ARTH 330 ARTH 333 ARTH 336 ARTH 337 ARTH 338	ART 329         ART 330         ART 333         ART 336         ART 337         ART 338	N/A N/A N/A N/A N/A
ARTH 330 ARTH 333 ARTH 336 ARTH 337 ARTH 338 ARTH 339	ART 329         ART 330         ART 333         ART 336         ART 337         ART 338         ART 339	N/A N/A N/A N/A N/A N/A N/A N/A
ARTH 330         ARTH 333         ARTH 336         ARTH 337         ARTH 338         ARTH 339         ARTH 342	ART 329         ART 330         ART 333         ART 336         ART 337         ART 338         ART 339         ART 342	N/A N/A N/A N/A N/A N/A N/A N/A N/A
ARTH 330         ARTH 333         ARTH 336         ARTH 337         ARTH 338         ARTH 339         ARTH 342         ARTH 354         ARTH 350	ART 329         ART 330         ART 333         ART 336         ART 337         ART 338         ART 339         ART 342         ART 343	N/A N/A N/A N/A N/A N/A N/A N/A N/A
ARTH 330         ARTH 333         ARTH 336         ARTH 337         ARTH 338         ARTH 339         ARTH 342         ARTH 354	ART 329         ART 330         ART 333         ART 336         ART 337         ART 338         ART 339         ART 342         ART 354         ART 390         ART 392	N/A
ARTH 330         ARTH 333         ARTH 336         ARTH 337         ARTH 338         ARTH 339         ARTH 342         ARTH 354         ARTH 350	ART 329         ART 330         ART 333         ART 336         ART 337         ART 338         ART 339         ART 342         ART 354         ART 390	N/A
ARTH 330         ARTH 333         ARTH 336         ARTH 337         ARTH 338         ARTH 339         ARTH 342         ARTH 354         ARTH 390         ARTH 444         ARTH 477	ART 329         ART 330         ART 333         ART 336         ART 337         ART 338         ART 339         ART 342         ART 354         ART 390         ART 392         ART 444         ART 477	N/A
ARTH 330         ARTH 333         ARTH 336         ARTH 337         ARTH 338         ARTH 339         ARTH 342         ARTH 354         ARTH 390         ARTH 444         ARTH 447	ART 329ART 330ART 333ART 336ART 337ART 337ART 338ART 342ART 342ART 354ART 390ART 392ART 444ART 477ART 478	N/A         N
ARTH 330         ARTH 333         ARTH 336         ARTH 337         ARTH 338         ARTH 339         ARTH 342         ARTH 354         ARTH 390         ARTH 444         ARTH 477	ART 329         ART 330         ART 333         ART 336         ART 337         ART 338         ART 339         ART 342         ART 354         ART 390         ART 392         ART 444         ART 477	N/A

	ART 497	N/A
ARTH 497 ARTH 500	ART 500	N/A N/A
ARTH 505	ART 505	N/A N/A
ARTH 506	ART 506	N/A
ARTH 510	ART 510	N/A
ARTH 510 ARTH 511	ART 511	N/A N/A
ARTH 512	ART 512	N/A
ARTH 512 ARTH 520	ART 520	N/A N/A
ARTH 520 ARTH 521	ART 520 ART 521	N/A N/A
ARTH 523	ART 523	N/A N/A
ARTH 525	ART 525	N/A N/A
ARTH 525 ARTH 530	ART 525	N/A N/A
ARTH 533	ART 533	N/A N/A
ARTH 536	ART 536	N/A N/A
ARTH 537	ART 537	N/A N/A
ARTH 538	ART 538	N/A N/A
ARTH 539	ART 539	N/A N/A
ARTH 539 ARTH 542		
ARTH 542 ARTH 543	ART 542 ART 543	N/A N/A
ARTH 578	ART 545 ART 578	
ARTH 579	ART 578 ART 579	N/A N/A
ARTH 579 ARTH 590		
ARTH 590 ARTH 591	ART 590	N/A N/A
	ART 591	
ARTH 592	ART 592	N/A
ARTH 597	ART 597	N/A
ARTH 599 ARTS-ART STUDIO	ART 599	N/A
ARTS 1145G	ART 110G	Unique
ARTS 1212	ART 157	Unique
ARTS 1240	ART 155	Common
ARTS 1250	ART 155 ART 156	Common
ARTS 1310	ART 275	Common
ARTS 1320	ART 276	Common
ARTS 1410	ART 270	Common
	7411 210	
ABTS 1520	ABT 161	Common
ARTS 1520	ART 161	Common
ARTS 1520	ART 272	Common
ARTS 1520 ARTS 1610	ART 272 ART 150	Common Common
ARTS 1520 ARTS 1610 ARTS 1610	ART 272 ART 150 ART 250	Common Common Common
ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1630	ART 272 ART 150 ART 250 ART 260	Common Common Common
ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1630 ARTS 1710	ART 272 ART 150 ART 250 ART 260 ART 280	Common Common Common Common
ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1630 ARTS 1710 ARTS 1711	ART 272 ART 150 ART 250 ART 260 ART 280 ART 160	Common Common Common Common Unique
ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1630 ARTS 1710 ARTS 1711 ARTS 1712	ART 272 ART 150 ART 250 ART 260 ART 280 ART 160 ART 163	Common Common Common Common Unique Unique
ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1630 ARTS 1710 ARTS 1711 ARTS 1712 ARTS 1713	ART 272         ART 150         ART 250         ART 260         ART 280         ART 163         ART 165	Common Common Common Common Unique Unique Unique
ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1630 ARTS 1710 ARTS 1711 ARTS 1712 ARTS 1713 ARTS 1810	ART 272         ART 150         ART 250         ART 260         ART 280         ART 163         ART 165         ART 285	Common Common Common Common Unique Unique Unique Common
ARTS 1520 ARTS 1610 ARTS 1610 ARTS 1630 ARTS 1710 ARTS 1711 ARTS 1712 ARTS 1713 ARTS 1810 ARTS 2010	ART 272         ART 150         ART 250         ART 260         ART 280         ART 165         ART 285         ART 267	Common Common Common Common Unique Unique Unique Common Common
ARTS 1520         ARTS 1610         ARTS 1610         ARTS 1630         ARTS 1710         ARTS 1711         ARTS 1712         ARTS 1713         ARTS 1810         ARTS 2010         ARTS 2355	ART 272         ART 150         ART 250         ART 260         ART 280         ART 160         ART 163         ART 285         ART 285         ART 286	Common Common Common Common Unique Unique Unique Common Common
ARTS 1520         ARTS 1610         ARTS 1610         ARTS 1630         ARTS 1710         ARTS 1711         ARTS 1712         ARTS 1713         ARTS 2010         ARTS 2355         ARTS 2410	ART 272         ART 150         ART 250         ART 260         ART 280         ART 165         ART 285         ART 267         ART 286         OEPT 100	Common Common Common Common Common Unique Unique Common Common Unique
ARTS 1520         ARTS 1610         ARTS 1610         ARTS 1630         ARTS 1710         ARTS 1711         ARTS 1712         ARTS 1713         ARTS 2010         ARTS 2355         ARTS 2410         ARTS 2430	ART 272         ART 150         ART 250         ART 260         ART 280         ART 160         ART 163         ART 285         ART 267         ART 286         OEPT 100         OEPT 155	Common Common Common Common Common Unique Unique Common Common Unique Common
ARTS 1520         ARTS 1610         ARTS 1610         ARTS 1630         ARTS 1710         ARTS 1711         ARTS 1712         ARTS 1713         ARTS 2010         ARTS 2355         ARTS 2430         ARTS 2431	ART 272         ART 150         ART 250         ART 260         ART 280         ART 160         ART 163         ART 285         ART 267         ART 286         OEPT 100         OEPT 155         ART 255	Common Common Common Common Unique Unique Unique Common Common Unique Unique
ARTS 1520         ARTS 1610         ARTS 1610         ARTS 1630         ARTS 1630         ARTS 1710         ARTS 1711         ARTS 1712         ARTS 1713         ARTS 2010         ARTS 2355         ARTS 2430         ARTS 2431         ARTS 2440	ART 272         ART 150         ART 250         ART 260         ART 280         ART 160         ART 163         ART 285         ART 267         ART 286         OEPT 100         OEPT 120	Common Common Common Common Unique Unique Unique Common Common Unique Common Unique Unique
ARTS 1520         ARTS 1610         ARTS 1610         ARTS 1630         ARTS 1710         ARTS 1711         ARTS 1712         ARTS 1713         ARTS 2010         ARTS 2355         ARTS 2430         ARTS 2431	ART 272         ART 150         ART 250         ART 260         ART 280         ART 160         ART 163         ART 285         ART 267         ART 286         OEPT 100         OEPT 155         ART 255	Common Common Common Common Unique Unique Unique Common Common Unique Common Unique

ARTS 2616	ART 252	Unique
ARTS 2630	ART 261	Common
ARTS 2635	ART 262	Common
ARTS 2671	ART 298	Unique
ARTS 2839	ART 265	Unique
ARTS 2993	ART 208	Unique
ARTS 2996	ART 294	Unique
ARTS 308	ART 308	N/A
ARTS 340	ART 340	N/A
ARTS 350	ART 350	N/A
ARTS 355	ART 355	N/A
ARTS 355	ART 360	N/A
ARTS 365	ART 365	N/A N/A
ARTS 370	ART 370	N/A N/A
ARTS 373 ARTS 374	ART 373	N/A
	ART 374	N/A
ARTS 375	ART 375	N/A
ARTS 376 ARTS 380	ART 376 ART 380	N/A
		N/A
ARTS 385	ART 385	N/A
ARTS 394	ART 394 ART 401	N/A
ARTS 401		N/A
ARTS 402	ART 402	N/A
ARTS 403	ART 403	N/A
ARTS 404	ART 404	N/A
ARTS 440	ART 440	N/A
ARTS 450	ART 450	N/A
ARTS 455	ART 455	N/A
ARTS 465	ART 465	N/A
ARTS 470	ART 470	N/A
ARTS 473	ART 473	N/A
ARTS 474	ART 474	N/A
ARTS 475	ART 475	N/A
ARTS 476	ART 476	N/A
ARTS 480	ART 480	N/A
ARTS 485	ART 485	N/A
ARTS 490	ART 490	N/A
ARTS 494	ART 494	N/A
ARTS 495	ART 495	N/A
ARTS 496	ART 496	N/A
ARTS 499	ART 499	N/A
ARTS 501	ART 501	N/A
ARTS 502	ART 502	N/A
ARTS 503	ART 503	N/A
ARTS 504	ART 504	N/A
ARTS 540	ART 540	N/A
ARTS 550	ART 550	N/A
ARTS 555	ART 555	N/A
ARTS 560	ART 560	N/A
ARTS 565	ART 565	N/A
ARTS 570	ART 570	N/A
ARTS 575	ART 575	N/A

ARTS 576	ART 576	N/A
ARTS 580	ART 580	N/A
ARTS 585	ART 585	N/A
ARTS 595	ART 595	N/A
ARTS 596	ART 596	N/A
ARTS 598	ART 598	N/A
ASTR-ASTRONOMY		
ASTR 1115G	ASTR 110G	Common
ASTR 1116	ASTR 199	Unique
ASTR 1120G	ASTR 105G	Unique
AXED-AGRICULTURAL EXTN EDUC		
AXED 1110	AXED 100	Unique
AXED 1120	AXED 240	Unique
AXED 1130	AXED 105	Unique
AXED 2110	AXED 205	Common
AXED 2120G	AXED 201G	Unique
AXED 2130	AXED 230	Unique
AXED 2140	AXED 232	Unique
AXED 2996	AXED 200	Unique
BCIS-BUSINESS COMPUTER SYSTEMS		
BCIS 1110	BCIS 110	Common
BCIS 1110	C S 110	Common
BFIN-BUSINESS FINANCE		
BFIN 2110	FIN 206	Common
BFIN 2110	FIN 210	Common
BFIN 303V	FIN 303V	N/A
BFIN 311	FIN 311	N/A
BFIN 322	FIN 322	N/A
BFIN 323	FIN 323	N/A
BFIN 324	FIN 324	N/A
BFIN 325	FIN 325	N/A
BFIN 326	FIN 326	N/A
BFIN 327	FIN 327	N/A
BFIN 341	FIN 341	N/A
BFIN 355	FIN 355	N/A
BFIN 360	FIN 360	N/A
BFIN 385	FIN 385	N/A
BFIN 391	FIN 391	N/A
BFIN 392	FIN 392	N/A
BFIN 393	FIN 393	N/A
BFIN 406	FIN 406	N/A
BFIN 421	FIN 421	N/A
BFIN 435	FIN 435	N/A
BFIN 436	FIN 436	N/A
BFIN 445	FIN 445	N/A
BFIN 455	FIN 455	N/A
BFIN 466	FIN 466	N/A
BFIN 470	FIN 470	N/A
BFIN 475	FIN 475	N/A
BFIN 480	FIN 480	N/A
BFIN 490	FIN 490	N/A
BFIN 498	FIN 498	N/A
	· · · · · · · · · · · · · · · · · · ·	

BFIN 500	FIN 500	N/A
BFIN 500 BFIN 503	FIN 500	N/A
BFIN 503 BFIN 511	FIN 505	N/A
BFIN 521	FIN 521	N/A
BFIN 535	FIN 525	N/A
BFIN 535 BFIN 536	FIN 535	N/A N/A
BFIN 536 BFIN 545	FIN 536	N/A N/A
	FIN 545	
BFIN 555		N/A
BFIN 566	FIN 566 FIN 575	N/A
BFIN 575		N/A
BFIN 581	FIN 581	N/A
BFIN 590	FIN 590	N/A
BFIN 598	FIN 598	N/A
BIOL-BIOLOGY		
BIOL 1120G	BIOL 101G	Unique
BIOL 1120L	BIOL 101GL	Unique
BIOL 1130G	BIOL 154	Common
BIOL 1190G	BIOL 110G	Unique
BIOL 1996	BIOL 150	Unique
BIOL 2110G	BIOL 211G	Unique
BIOL 2110L	BIOL 211GL	Unique
BIOL 2210	BIOL 225	Common
BIOL 2221	BIOL 254	Unique
BIOL 2225	BIOL 226	Common
BIOL 2310	BIOL 221	Common
BIOL 2310L	BIOL 221 L	Common
BIOL 2320	BIOL 219	Unique
BIOL 2505	BIOL 227	Common
BIOL 2511	BIOL 262	Common
BIOL 2512	BIOL 263	Unique
BIOL 2610G	BIOL 111G	Common
BIOL 2610L	BIOL 111GL	Common
BIOL 2996	BIOL 250	Unique
BLAW-BUSINESS LAW		-
BLAW 2110	BLAW 230	Common
BLAW 2110	BMGT 231	Common
BLED-BILINGUAL EDUCATION		
BLED 1110	EDUC 103	Common
BLED 2110	EDUC 204	Common
BLED 344	BIL 344	N/A
BLED 483	BIL 483	N/A
BLED 489	BIL 489	N/A
BLED 505	BIL 505	N/A
BLED 520	BIL 520	N/A
BLED 522	BIL 522	N/A
BLED 545	BIL 545	N/A
BLED 550	BIL 550	N/A
BLED 560	BIL 560	N/A
BLED 570	BIL 570	N/A
BLED 583	BIL 583	N/A
BLED 587	BIL 587	N/A
BLED 616	BIL 616	N/A

BLED 617	BIL 617	N/A
BLED 633	BIL 633	N/A
BLED 670	BIL 670	N/A
BUSA-BUSINESS ADMINISTRATION	BIL 070	N/A
BUSA 1110	BMGT 110	Common
BUSA 1110	BUSA 111	Common
CAST-CHILD ADVOCACY STUDIES	DUSATT	Common
CAST 1110	CAST 201	Unique
CAST 2110	CAST 202	Unique
CAST 2120	CAST 202	Unique
CEPY-COUNSELING & EDUC PSY	0.01 200	onque
CEPY 1120G	C EP 110G	Unique
CEPY 1150	C EP 199	Unique
CEPY 2110	C EP 210	Common
CEPY 2120	C EP 215	Unique
CEPY 2130	C EP 240	Unique
CEPY 2140	C EP 298	Unique
CEPY 2140H	C EP 298 H	Unique
CEPY-COUNSELING & EDUCATIONAL PSYCHOL		onque
CEPY 300V	C EP 300	N/A
CEPY 320	C EP 320	N/A
CEPY 420	C EP 420	N/A
CEPY 451V	C EP 451V	N/A
CEPY 455	C EP 455	N/A
CEPY 461	C EP 461	N/A
CEPY 495	C EP 495	N/A
CEPY 495 H	C EP 495 H	N/A
CEPY 498	C EP 498	N/A
CEPY 499	C EP 499	N/A
CEPY 503	C EP 503	N/A
CEPY 505	C EP 505	N/A
CEPY 511	C EP 511	N/A
CEPY 512	C EP 512	N/A
CEPY 515	C EP 515	N/A
CEPY 517	C EP 517	N/A
CEPY 519	C EP 519	N/A
CEPY 520	C EP 520	N/A
CEPY 522	C EP 522	N/A
CEPY 524	C EP 524	N/A
CEPY 529	C EP 529	N/A
CEPY 532	C EP 532	N/A
CEPY 540	C EP 540	N/A
CEPY 542	C EP 542	N/A
CEPY 547	C EP 547	N/A
CEPY 549	C EP 549	N/A
CEPY 550	C EP 550	N/A
CEPY 551	C EP 551	N/A
CEPY 552	C EP 552	N/A
CEPY 554	C EP 554	N/A
CEPY 556	C EP 556	N/A
CEPY 558	C EP 558	N/A
CEPY 559	C EP 559	N/A

CEPY 562	C EP 562	N/A
CEPY 563	C EP 563	N/A
CEPY 566	C EP 566	N/A
CEPY 569	C EP 569	N/A
CEPY 572	C EP 572	N/A
CEPY 578	C EP 578	N/A
CEPY 579	C EP 579	N/A
CEPY 580	C EP 580	N/A
CEPY 598	C EP 598	N/A
CEPY 599	C EP 599	N/A
CEPY 607	C EP 607	N/A
CEPY 608	C EP 608	N/A
CEPY 612	C EP 612	N/A
CEPY 615	C EP 615	N/A
CEPY 616	C EP 616	N/A
CEPY 617	C EP 617	N/A
CEPY 618	C EP 618	N/A
CEPY 619	C EP 619	N/A
CEPY 622	C EP 622	N/A
CEPY 622	C EP 624	N/A
CEPY 625	C EP 625	N/A
CEPY 630	C EP 625	N/A
CEPY 632	C EP 632	N/A N/A
CEPY 632 CEPY 634	C EP 632	
CEPY 634 CEPY 636	C EP 634 C EP 636	N/A
		N/A
CEPY 637	C EP 637	N/A
CEPY 642	C EP 642	N/A
CEPY 647	C EP 647	N/A
CEPY 648 CEPY 649	C EP 648	N/A
CEPY 649 CEPY 651	C EP 649	N/A
	C EP 651	N/A
CEPY 652	C EP 652	N/A
CEPY 658	C EP 658	N/A
CEPY 662	C EP 662	N/A
CEPY 670	C EP 670	N/A
CEPY 671	C EP 671	N/A
CEPY 672	C EP 672	N/A
CEPY 673	C EP 673	N/A
CEPY 675	C EP 675	N/A
CEPY 676	C EP 676	N/A
CEPY 677	C EP 677	N/A
CEPY 678	C EP 678	N/A
CEPY 679	C EP 679	N/A
CEPY 680	C EP 680	N/A
CEPY 681	C EP 681	N/A
CEPY 682	C EP 682	N/A
CEPY 684	C EP 684	N/A
CEPY 685	C EP 685	N/A
CEPY 693	C EP 693	N/A
CEPY 698	C EP 698	N/A
CEPY 699	C EP 699	N/A
CEPY 700	C EP 700	N/A

#### CHEM-CHEMISTRY

CHEIWI-CHEIWIISTRT		
CHEM 1111	CHEM 100	Unique
CHEM 1120G	CHEM 110G	Common
CHEM 1121	CHEM 101	Unique
CHEM 1122	CHEM 102	Unique
CHEM 1123	CHEM 103	Unique
CHEM 1215G	CHEM 111G	Unique
CHEM 1216	CHEM 115	Common
CHEM 1225G	CHEM 112G	Unique
CHEM 1226	CHEM 116	Common
CHEM 2111	CHEM 242	Unique
CHEM 2115	CHEM 211	Common
CHEM 2120	CHEM 210	Common
CHEM 2226	CHEM 217	Unique
CHEM 2991	CHEM 241	Unique
CHEM 2996	CHEM 251	Unique
CHIN-CHINESE		
CHIN 1110	CHIN 111	Common
CHIN 1120	CHIN 112	Common
CHIN 2110	CHIN 211	Common
CHIN 2120	CHIN 212	Common
CHSS - COMM HEALTH/SOC SRVCS	OTHIN 212	
CHSS 1110	CHSS 101	Unique
CHSS 2110	CHSS 216	Unique
CHSS 2510	CHSS 299	Common
CHSS 2511	CHSS 295	Unique
CJUS-CRIMINAL JUSTICE	6633 233	Onique
CJUS 1110G	C J 101G	Common
CJUS 1120	C J 205	Common
CJUS 1996	C J 199	
CJUS 2120	C J 250	Unique Common
CJUS 2140	C J 221	Common
CJUS 2150	C J 230	Common
CJUS 2160	C J 293	Common
CJUS 2220	C J 210	Common
	C J 300	N/A
CJUS 300 CJUS 301	C J 301	N/A N/A
CJUS 301	C J 302	N/A N/A
CJUS 302	C J 303	N/A N/A
CJUS 303	C J 304	N/A N/A
CJUS 306	C J 306	N/A
CJUS 307	C J 307	N/A
CJUS 321	C J 321	N/A
CJUS 331	C J 331	N/A
CJUS 332	C J 332	N/A
CJUS 333	C J 333	N/A
CJUS 345	C J 345	N/A
CJUS 346	C J 346	N/A
CJUS 347	C J 347	N/A
CJUS 348	C J 348	N/A
CJUS 360	C J 360	N/A
CJUS 380	C J 380	N/A

CJUS 391	C J 391	N/A
CJUS 393	C J 393	N/A
CJUS 399	C J 399	N/A
CJUS 405	C J 405	N/A
CJUS 410	C J 410	N/A
CJUS 412	C J 412	N/A
CJUS 414	C J 414	N/A
CJUS 416	C J 416	N/A
CJUS 417	C J 417	N/A
CJUS 424	C J 424	N/A
CJUS 425	C J 425	N/A
CJUS 427	C J 427	N/A
CJUS 428	C J 428	N/A
CJUS 429	C J 429	N/A
CJUS 430	C J 430	N/A
CJUS 431	C J 431	N/A
CJUS 432	C J 432	N/A
CJUS 434	C J 434	N/A
CJUS 435	C J 435	N/A
CJUS 436	C J 436	N/A
CJUS 437	C J 437	N/A
CJUS 440V	C J 440V	N/A
CJUS 449	C J 449	N/A
CJUS 451	C J 451	N/A
CJUS 453	C J 453	N/A
CJUS 454	C J 454	N/A
CJUS 455	C J 455	N/A
CJUS 484	C J 484	N/A
CJUS 501	C J 501	N/A
CJUS 511	C J 511	N/A
CJUS 514	C J 514	N/A
CJUS 515	C J 515	N/A
CJUS 521	C J 521	N/A
CJUS 524	C J 524	N/A
CJUS 525	C J 525	N/A
CJUS 527	C J 527	N/A
CJUS 529	C J 529	N/A
CJUS 531	C J 531	N/A
CJUS 532	C J 532	N/A
CJUS 535	C J 535	N/A
CJUS 537	C J 537	N/A
CJUS 541	C J 541	N/A
CJUS 545	C J 545	N/A
CJUS 554	C J 554	N/A
CJUS 555	C J 555	N/A
CJUS 581	C J 581	N/A
CJUS 591	C J 591	N/A
CJUS 592	C J 592	N/A
CJUS 593	C J 593	N/A
CJUS 599	C J 599	N/A
COMM-COMMUNICATION		
COMM 1115G	COMM 265G	Common

COMM 1130G	COMM 253G	Common
		Common
COMM 2110	COMM 285	Unique
COMM 2111	COMM 250	Unique
COMM 2996	COMM 291	Unique
COMM 2997	COMM 290	Unique
CTFM-CLTHNG/TXTLS/FSHN MRCHDSG	07514170	
CTFM 1110	CTFM 178	Unique
CTFM 2110	CTFM 289	Unique
CTFM 2120	CTFM 270	Unique
CTFM 2130	CTFM 273	Unique
CTFM 2990	CTFM 202	Unique
DANC-DANCE		
DANC 1110G	DANC 101G	Common
DANC 1130	DANC 123	Common
DANC 1131	DANC 125	Unique
DANC 1135	DANC 109	Unique
DANC 1140	DANC 129	Common
DANC 1150	DANC 126	Common
DANC 1155	DANC 102	Common
DANC 1185	DANC 121	Unique
DANC 1220	DANC 122	Unique
DANC 1235	DANC 118	Unique
DANC 2114	DANC 204	Unique
DANC 2130	DANC 223	Common
DANC 2130L	DANC 223 L	Unique
DANC 2140	DANC 229	N/A
DANC 2140L	DANC 229 L	Unique
DANC 2142	DANC 210	Unique
DANC 2142L	DANC 210 L	Unique
DANC 2150	DANC 226	Common
DANC 2150L	DANC 226 L	Unique
DANC 2155	DANC 207	Unique
DANC 2157	DANC 212	Unique
DANC 2161	DANC 227	Unique
DANC 2250	DANC 205	Unique
DANC 2251	DANC 206	Unique
DANC 2265	DANC 289	Unique
DANC 2270	DANC 280	Unique
DANC 2310	DANC 222	Unique
DANC 2311	DANC 225	Unique
DANC 2320	DANC 232	Unique
DANC 2321	DANC 235	Unique
DANC 3110	DANC 345	N/A
DANC 3114	DANC 304	N/A
DANC 3130	DANC 323	N/A
DANC 3130L	DANC 323 L	N/A
DANC 3140	DANC 329	N/A
DANC 3140L	DANC 329 L	N/A
DANC 3142	DANC 310	N/A
DANC 3142L	DANC 310 L	N/A
DANC 3145	DANC 339	N/A
DANC 3150	DANC 326	N/A

DANC 3150L	DANC 326 L	N/A
DANC 3155	DANC 320 L	N/A
DANC 3153	DANC 312	N/A
DANC 3157	DANC 375	N/A N/A
DANC 3175 DANC 323 L	DANC 3130L	
DANC 3250		N/A
	DANC 305	N/A
DANC 3251	DANC 306	N/A
DANC 3310	DANC 322	N/A
DANC 3311	DANC 325	N/A
DANC 3320	DANC 332	N/A
DANC 3321	DANC 335	N/A
DANC 3510V	DANC 451V	N/A
DANC 4130	DANC 423	N/A
DANC 4130L	DANC 423 L	N/A
DANC 4150	DANC 426	N/A
DANC 4150L	DANC 426 L	N/A
DANC 4250	DANC 466	N/A
DANC 4265	DANC 489	N/A
DANC 4311	DANC 425	N/A
DANC 4320	DANC 432	N/A
DANC 4321	DANC 435	N/A
DANC 4610	DANC 447	N/A
DANC 4710	DANC 465	N/A
DANC 4990	DANC 411	N/A
DANC 4990	DANC 412	N/A
DANC 4990	DANC 413	N/A
DANC 4996	DANC 450	N/A
DANC 4997	DANC 499	N/A
DANC 5114	DANC 504	N/A
DANC 5130	DANC 523	N/A
DANC 5140	DANC 529	N/A
DANC 5142	DANC 510	N/A
DANC 5145	DANC 539	N/A
DANC 5150	DANC 526	N/A
DANC 5155	DANC 507	N/A
DANC 5157	DANC 512	N/A
DANC 5250	DANC 505	N/A
DANC 5251	DANC 506	N/A
DANC 5310	DANC 522	N/A
DANC 5311	DANC 522	N/A
DANC 5320	DANC 532	N/A
DANC 5321	DANC 535	N/A
DANC 5510	DANC 551	N/A
DANC 5550	DANC 566	N/A
DANC 5710	DANC 570	N/A
DANC 5900	DANC 599	N/A
DANC 5992	DANC 501	N/A
DANC 5996	DANC 550	N/A
DANC 5998	DANC 567	N/A
DANC 6998	DANC 670	N/A
ECED-EARLY CHILDHOOD EDUCATION		
ECED 1110	ECED 115	Common

		0
ECED 1115	ECED 125	Common
ECED 1120	ECED 265	Common
ECED 1125	ECED 255	Common
ECED 1130	ECED 135	Common
ECED 2110	ECED 245	Common
ECED 2115	ECED 235	Common
ECED 2120	ECED 215	Common
ECED 2121	ECED 220	Common
ECED 2130	ECED 225	Common
ECED 2131	ECED 230	Common
ECED 2140	ECED 275	Common
ECED 2141	ECED 276	Common
ECED 2215	ECED 270	Common
ECED 2280	ECED 280	Common
ECED 2281	ECED 281	Unique
ECON-ECONOMICS		
ECON 1110G	ECON 201G	Common
ECON 2110G	ECON 251G	Common
ECON 2110H	ECON 251GH	Common
ECON 2120G	ECON 252G	Common
ECON 2120H	ECON 252GH	Common
EDLT-EDUCATION		
EDLT 2110	EDLT 268	Unique
EDUC-EDUCATION		
EDUC 1110	EDUC 101	Unique
EDUC 1120	EDUC 250	Common
EDUC 1140	EDUC 150	Unique
EDUC 1150	EDUC 151	Unique
EDUC 1185	EDUC 281	Unique
EDUC 1995	EDUC 181	Unique
EDUC 1996	EDUC 195	Unique
EDUC 1998	EDUC 102	Unique
EDUC 2710	EDUC 219	Unique
EDUC 2998	EDUC 202	Unique
ELAD-EDUC LEADERSHIP & ADMIN		
ELAD 2210	ELA 255	Unique
ELAD 2340	ELA 215	Unique
ELAD 2996	ELA 298	Unique
ELAD 342	ELA 342	N/A
ELAD 350V	ELA 350V	N/A
ELAD 398	ELA 398	N/A
ELAD 411	ELA 411	N/A
ELAD 412	ELA 412	N/A
ELAD 413	ELA 413	N/A
ELAD 414	ELA 414	N/A
ELAD 440	ELA 440	N/A
ELAD 450	ELA 450	N/A
ELAD 455	ELA 455	N/A
ELAD 485	ELA 485	N/A
ELAD 499	ELA 499	N/A
ELAD 502	ELA 502	N/A
ELAD 511	ELA 511	N/A

	51 4 510	N1/A
ELAD 512	ELA 512	N/A
ELAD 513	ELA 513	N/A
ELAD 514	ELA 514	N/A
ELAD 520	ELA 520	N/A
ELAD 530	ELA 530	N/A
ELAD 531	ELA 531	N/A
ELAD 540	ELA 540	N/A
ELAD 550	ELA 550	N/A
ELAD 555	ELA 555	N/A
ELAD 563	ELA 563	N/A
ELAD 564	ELA 564	N/A
ELAD 565	ELA 565	N/A
ELAD 566	ELA 566	N/A
ELAD 567	ELA 567	N/A
ELAD 568	ELA 568	N/A
ELAD 569	ELA 569	N/A
ELAD 570	ELA 570	N/A
ELAD 572	ELA 572	N/A
ELAD 575	ELA 575	N/A
ELAD 576	ELA 576	N/A
ELAD 578	ELA 578	N/A
ELAD 579	ELA 579	N/A
ELAD 580	ELA 580	N/A
ELAD 582	ELA 582	N/A
ELAD 585	ELA 585	N/A
ELAD 586	ELA 586	N/A
ELAD 589	ELA 589	N/A
ELAD 590	ELA 590	N/A
ELAD 595	ELA 595	N/A
ELAD 598	ELA 598	N/A
ELAD 600	ELA 600	N/A
ELAD 615	ELA 625	N/A
ELAD 620	ELA 620	N/A
ELAD 622	ELA 622	N/A N/A
ELAD 623	ELA 623	N/A
ELAD 630	ELA 630 ELA 635	N/A
ELAD 635		N/A
ELAD 645	ELA 645	N/A
ELAD 650	ELA 650	N/A
ELAD 655	ELA 655	N/A
ELAD 670	ELA 670	N/A
ELAD 671	ELA 671	N/A
ELAD 676	ELA 676	N/A
ELAD 679	ELA 679	N/A
ELAD 682	ELA 682	N/A
ELAD 683	ELA 683	N/A
ELAD 685	ELA 685	N/A
ELAD 689	ELA 689	N/A
ELAD 693	ELA 693	N/A
ELAD 698	ELA 698	N/A
ELAD 700	ELA 700	N/A
ENGL-ENGLISH		

	0000 1110	11. Same
ENGL 1105M	SPCD 1110	Unique
ENGL 1110G	ENGL 111G	Common
ENGL 1110H	ENGL 111GH	Unique
ENGL 1110M	ENGL 111 M	Unique
ENGL 1120	ENGL 112	Common
ENGL 1410G	ENGL 115G	Common
ENGL 2130G	ENGL 311G	Common
ENGL 2210G	ENGL 203G	Common
ENGL 2210G	ENGL 218G	Common
ENGL 2215G	ENGL 318G	Unique
ENGL 2221G	ENGL 211G	Unique
ENGL 2280	ENGL 263	Unique
ENGL 2310G	ENGL 220G	Common
ENGL 2381	ENGL 232	Unique
ENGL 2382	ENGL 235	Unique
ENGL 2520G	ENGL 116G	Common
ENGL 2521	ENGL 243	Unique
ENGL 2610	ENGL 251	Common
ENGL 2620	ENGL 252	Common
ENGL 2630	ENGL 271	Common
ENGL 2640	ENGL 272	Common
ENGL 2650G	ENGL 244G	Common
ENGL 2996	ENGL 299	Unique
ENTR-ENTREPRENUERSHIP		
ENTR 1110	BMGT 275	Common
ENVS-ENVIRONMENTAL SCIENCE		
ENVS 1110G	E S 110G	Common
ENVS 1110G ENVS 2111	E S 110G E S 256	Common Unique
ENVS 2111	E S 256	Unique
ENVS 2111 ENVS 2111L	E S 256 E S 256 L	Unique Unique
ENVS 2111 ENVS 2111L ENVS 300	E S 256 E S 256 L E S 300	Unique Unique N/A
ENVS 2111 ENVS 2111L ENVS 300 ENVS 301	E S 256 E S 256 L E S 300 E S 301	Unique Unique N/A N/A
ENVS 2111 ENVS 2111L ENVS 300 ENVS 301 ENVS 312	E S 256 E S 256 L E S 300 E S 301 E S 312	Unique Unique N/A N/A N/A
ENVS 2111 ENVS 2111L ENVS 300 ENVS 301 ENVS 312 ENVS 330	E S 256 E S 256 L E S 300 E S 301 E S 312 E S 330	Unique Unique N/A N/A N/A N/A
ENVS 2111 ENVS 2111L ENVS 300 ENVS 301 ENVS 312 ENVS 330 ENVS 361	E S 256 E S 256 L E S 300 E S 301 E S 312 E S 330 E S 361	Unique Unique N/A N/A N/A N/A N/A N/A
ENVS 2111 ENVS 2111L ENVS 300 ENVS 301 ENVS 312 ENVS 330 ENVS 361 ENVS 370	E S 256 E S 256 L E S 300 E S 301 E S 312 E S 330 E S 361 E S 370	Unique Unique N/A N/A N/A N/A N/A N/A N/A
ENVS 2111 ENVS 2111L ENVS 300 ENVS 301 ENVS 312 ENVS 330 ENVS 361 ENVS 370 ENVS 391 ENVS 422	E S 256 E S 256 L E S 300 E S 301 E S 312 E S 330 E S 361 E S 370 E S 391 E S 422	Unique Unique N/A N/A N/A N/A N/A N/A N/A N/A
ENVS 2111 ENVS 2111L ENVS 300 ENVS 301 ENVS 312 ENVS 330 ENVS 361 ENVS 370 ENVS 391	E S 256 E S 256 L E S 300 E S 301 E S 312 E S 330 E S 361 E S 370 E S 391	Unique Unique N/A N/A N/A N/A N/A N/A N/A
ENVS 2111 ENVS 2111L ENVS 300 ENVS 301 ENVS 301 ENVS 312 ENVS 330 ENVS 361 ENVS 370 ENVS 391 ENVS 422 ENVS 430 ENVS 449	E S 256 E S 256 L E S 300 E S 301 E S 312 E S 330 E S 330 E S 370 E S 391 E S 422 E S 430 E S 449	Unique Unique N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
ENVS 2111 ENVS 2111L ENVS 300 ENVS 301 ENVS 301 ENVS 312 ENVS 330 ENVS 361 ENVS 370 ENVS 391 ENVS 422 ENVS 430	E S 256 E S 256 L E S 300 E S 301 E S 312 E S 330 E S 361 E S 370 E S 391 E S 422 E S 430	Unique         Unique         N/A         N/A
ENVS 21111 ENVS 2111L ENVS 300 ENVS 301 ENVS 312 ENVS 312 ENVS 361 ENVS 361 ENVS 391 ENVS 422 ENVS 422 ENVS 430 ENVS 449 ENVS 449 ENVS 451	E S 256 E S 256 L E S 300 E S 301 E S 312 E S 330 E S 330 E S 361 E S 370 E S 391 E S 422 E S 430 E S 449 E S 449 E S 451 E S 452	Unique         Unique         N/A         N/A
ENVS 21111 ENVS 2111L ENVS 300 ENVS 301 ENVS 301 ENVS 312 ENVS 330 ENVS 361 ENVS 370 ENVS 391 ENVS 422 ENVS 430 ENVS 449 ENVS 451	E S 256 E S 256 L E S 300 E S 301 E S 312 E S 330 E S 330 E S 361 E S 370 E S 391 E S 422 E S 430 E S 430 E S 449 E S 451 E S 452	Unique         Unique         N/A         N/A
ENVS 21111         ENVS 2111L         ENVS 300         ENVS 301         ENVS 301         ENVS 312         ENVS 330         ENVS 361         ENVS 370         ENVS 422         ENVS 430         ENVS 449         ENVS 451         ENVS 452         ENVS 457         ENVS 460	E S 256         E S 256 L         E S 300         E S 301         E S 301         E S 312         E S 330         E S 361         E S 370         E S 391         E S 422         E S 430         E S 449         E S 451         E S 452         E S 457         E S 460	Unique         Unique         N/A         N/A
ENVS 21111         ENVS 2111L         ENVS 300         ENVS 301         ENVS 301         ENVS 312         ENVS 330         ENVS 361         ENVS 370         ENVS 391         ENVS 422         ENVS 430         ENVS 449         ENVS 451         ENVS 452         ENVS 454         ENVS 460	E S 256 E S 256 L E S 300 E S 301 E S 312 E S 312 E S 330 E S 361 E S 370 E S 370 E S 391 E S 422 E S 422 E S 430 E S 449 E S 451 E S 452 E S 457 E S 460 E S 462	Unique         Unique         N/A         N/A
ENVS 21111         ENVS 2111L         ENVS 300         ENVS 301         ENVS 301         ENVS 312         ENVS 330         ENVS 361         ENVS 370         ENVS 391         ENVS 422         ENVS 430         ENVS 449         ENVS 451         ENVS 452         ENVS 457         ENVS 460         ENVS 470	E S 256 E S 256 L E S 300 E S 301 E S 301 E S 312 E S 330 E S 361 E S 370 E S 370 E S 391 E S 422 E S 430 E S 430 E S 449 E S 451 E S 452 E S 451 E S 452 E S 457 E S 460 E S 462 E S 470	Unique         Unique         N/A         N/A
ENVS 21111         ENVS 2111L         ENVS 300         ENVS 301         ENVS 301         ENVS 312         ENVS 330         ENVS 361         ENVS 370         ENVS 422         ENVS 430         ENVS 449         ENVS 451         ENVS 452         ENVS 454         ENVS 457         ENVS 460         ENVS 470         ENVS 471	E S 256         E S 256 L         E S 300         E S 301         E S 301         E S 312         E S 330         E S 330         E S 361         E S 370         E S 391         E S 422         E S 430         E S 449         E S 451         E S 452         E S 457         E S 460         E S 470         E S 471	Unique         Unique         N/A         N/A
ENVS 21111         ENVS 2111L         ENVS 300         ENVS 301         ENVS 301         ENVS 312         ENVS 330         ENVS 361         ENVS 370         ENVS 391         ENVS 422         ENVS 430         ENVS 449         ENVS 451         ENVS 452         ENVS 453         ENVS 454         ENVS 457         ENVS 460         ENVS 470         ENVS 471         ENVS 4557	E S 256         E S 256 L         E S 300         E S 301         E S 312         E S 330         E S 361         E S 370         E S 371         E S 370         E S 422         E S 430         E S 449         E S 451         E S 452         E S 457         E S 460         E S 470         E S 471         E S 557	Unique         Unique         N/A         N/A
ENVS 21111         ENVS 2111L         ENVS 300         ENVS 301         ENVS 301         ENVS 312         ENVS 312         ENVS 330         ENVS 361         ENVS 391         ENVS 422         ENVS 430         ENVS 449         ENVS 451         ENVS 452         ENVS 454         ENVS 457         ENVS 460         ENVS 470         ENVS 557         ENVS 557	E S 256         E S 256 L         E S 300         E S 301         E S 301         E S 312         E S 30         E S 301         E S 422         E S 430         E S 449         E S 451         E S 452         E S 457         E S 460         E S 462         E S 470         E S 471         E S 557         E S 596	Unique         Unique         N/A         N/A
ENVS 21111         ENVS 2111L         ENVS 300         ENVS 301         ENVS 301         ENVS 312         ENVS 312         ENVS 330         ENVS 361         ENVS 370         ENVS 391         ENVS 422         ENVS 430         ENVS 449         ENVS 451         ENVS 452         ENVS 457         ENVS 460         ENVS 470         ENVS 557         ENVS 596         ENVS 599	E S 256         E S 256 L         E S 300         E S 301         E S 301         E S 312         E S 30         E S 30         E S 301         E S 422         E S 430         E S 449         E S 451         E S 452         E S 457         E S 460         E S 462         E S 470         E S 557         E S 596         E S 599	Unique         Unique         N/A         N/A
ENVS 21111         ENVS 2111L         ENVS 300         ENVS 301         ENVS 301         ENVS 312         ENVS 330         ENVS 361         ENVS 370         ENVS 391         ENVS 422         ENVS 430         ENVS 449         ENVS 451         ENVS 452         ENVS 454         ENVS 457         ENVS 460         ENVS 470         ENVS 557         ENVS 596         ENVS 599         ENVS 605	E S 256         E S 256 L         E S 300         E S 301         E S 301         E S 312         E S 330         E S 330         E S 361         E S 370         E S 391         E S 422         E S 430         E S 449         E S 451         E S 452         E S 457         E S 462         E S 470         E S 577         E S 596         E S 599         E S 605	Unique         Unique         N/A         N/A
ENVS 21111         ENVS 2111L         ENVS 300         ENVS 301         ENVS 301         ENVS 312         ENVS 312         ENVS 330         ENVS 361         ENVS 370         ENVS 391         ENVS 422         ENVS 430         ENVS 449         ENVS 451         ENVS 452         ENVS 457         ENVS 460         ENVS 470         ENVS 557         ENVS 596         ENVS 599	E S 256         E S 256 L         E S 300         E S 301         E S 301         E S 312         E S 30         E S 30         E S 301         E S 422         E S 430         E S 449         E S 451         E S 452         E S 457         E S 460         E S 462         E S 470         E S 557         E S 596         E S 599	Unique         Unique         N/A         N/A

#### EPWS-ETMLGY/PLNT PTHLGY/WD SCI

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

FD1/4 1010		
FDMA 1210	CMT 190	Common
FDMA 1220	CMI 216	Common
FDMA 1220	CMT 195	Common
FDMA 1260	CMT 108	Common
FDMA 1260	CMT 120	Common
FDMA 1355	CMT 100	Unique
FDMA 1360	CMT 130	Common
FDMA 1410	CMT 247	Common
FDMA 1415	CMT 206	Unique
FDMA 1510	CMI 260	Common
FDMA 1510	CMT 135	Common
FDMA 1515	CMT 145	Common
FDMA 1531	CMT 151	Unique
FDMA 1535	CMT 142	Common
FDMA 1536	CMT 242	Unique
FDMA 1545	CMT 115	Common
FDMA 1555	CMI 100	Unique
FDMA 1630	CMT 180	Common
FDMA 1710	CMT 150	Unique
FDMA 1715	CMI 245	Unique
FDMA 1720	CMT 175	Unique
FDMA 1725	CMT 185	Unique
FDMA 1996	CMT 155	Unique
FDMA 2111	CMT 220	Unique
FDMA 2112	CMT 182	Unique
FDMA 2120	CMT 126	Common
FDMA 2125	CMT 156	Common
FDMA 2144	CMT 222	Unique
FDMA 2150	CMT 240	Common
FDMA 2210	CMT 210	Unique
FDMA 2235	CMT 248	Unique
FDMA 2241	CMT 258	Unique
FDMA 2285	CMT 215	Common
FDMA 2287	CMT 223	Common
FDMA 2310	CMI 228	Unique
FDMA 2311	CMI 231	Unique
FDMA 2311	CMT 253	Unique
FDMA 2312	CMT 254	Unique
FDMA 2325	CMT 245	Common
FDMA 2326	CMT 216	Unique
FDMA 2360	CMT 230	Common
FDMA 2365	CMT 235	Unique
FDMA 2370	CMT 275	Unique
FDMA 2375	CMT 256	Common
FDMA 2381	CMI 232	Unique
FDMA 2382	CMI 235	Unique
FDMA 2383	CMT 165	Unique
FDMA 2410	CMT 236	Common
FDMA 2510	CMI 200	Common
FDMA 2520	CMI 205	Common
FDMA 2520	CMT 205	Common
FDMA 2530	CMI 280	Common

FDMA 2530	CMT 160	Common
FDMA 2535	CMI 240	Unique
FDMA 2550	CMT 285	Unique
FDMA 2570	CMT 292	Unique
FDMA 2710	CMI 252	Unique
FDMA 2715	CMT 260	Unique
FDMA 2715 FDMA 2720	CMI 200	Unique
FDMA 2725	CMI 270	Unique
FDMA 2730	CMT 227	Unique
FDMA 2735	CMT 290	Unique
FDMA 2740	CMT 291	Unique
FDMA 2745	CMI 233	Unique
FDMA 2750	CMT 229	Unique
FDMA 2755	CMI 220	Unique
FDMA 2760	CMT 265	Unique
FDMA 2765	CMT 225	Unique
FDMA 2770	CMT 200	Unique
FDMA 2775	CMT 252	Unique
FDMA 2780	CMT 251	Unique
FDMA 2785	CMT 228	Unique
FDMA 2993	CMT 276	Unique
FDMA 2994	CMT 295	Unique
FDMA 2995	CMT 226	Unique
FDMA 2996	CMT 255	Unique
FDMA 2997	CMT 298	Unique
FDMA 2998	CMT 221	Unique
FDMA 300	CMI 300	N/A
FDMA 301	CMI 301	N/A
FDMA 303	CMI 303	N/A
FDMA 305	CMI 305	N/A
FDMA 308	CMI 308	N/A
FDMA 309	CMI 309	N/A
FDMA 310	CMI 310	N/A
FDMA 311	CMI 311	N/A
FDMA 312	CMI 312	N/A
FDMA 314	CMI 314	N/A
FDMA 315	CMI 315	N/A
FDMA 316	CMI 316	N/A
FDMA 318	CMI 318	N/A
FDMA 320	CMI 320	N/A
FDMA 325	CMI 325	N/A
FDMA 328	CMI 328	N/A
FDMA 329	CMI 329	N/A
FDMA 330	CMI 330	N/A
FDMA 332	CMI 332	N/A
FDMA 341	CMI 341	N/A
FDMA 348	CMI 348	N/A
FDMA 350	CMI 350	N/A
FDMA 360	CMI 360	N/A
FDMA 362	CMI 362	N/A
FDMA 365	CMI 365	N/A
FDMA 377	CMI 377	N/A
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FDMA 395	CMI 395	N/A
FDMA 396	CMI 396	N/A
FDMA 397	CMI 397	N/A
FDMA 398	CMI 398	N/A
FDMA 400	CMI 400	N/A
FDMA 401	CMI 401	N/A
FDMA 410	CMI 410	N/A
FDMA 412	CMI 412	N/A
FDMA 420	CMI 420	N/A
FDMA 421	CMI 421	N/A
FDMA 425	CMI 425	N/A
FDMA 433	CMI 433	N/A
FDMA 450	CMI 450	N/A
FDMA 470	CMI 470	N/A
FDMA 477	CMI 477	N/A
FDMA 480	CMI 480	N/A
FDMA 490	CMI 490	N/A
FDMA 491	CMI 491	N/A
FDMA 492	CMI 492	N/A
FDMA 493	CMI 493	N/A
FDMA 494	CMI 494	N/A
FDMA 495	CMI 495	N/A
FDMA 496	CMI 496	N/A
FDMA 497	CMI 497	N/A
FREN-FRENCH		
FREN 1110	FREN 111	Common
FREN 1120	FREN 112	Common
FREN 2110	FREN 211	Common
FREN 2110 FREN 2120	FREN 211 FREN 212	Common Common
FREN 2120		
FREN 2120 FSTE-FOOD SCIENCE & TECHNOLOGY	FREN 212	Common Unique
FREN 2120 FSTE-FOOD SCIENCE & TECHNOLOGY FSTE 1110G	FREN 212 FSTE 164G FSTE 175	Common Unique Unique
FREN 2120 FSTE-FOOD SCIENCE & TECHNOLOGY FSTE 1110G FSTE 1120 FSTE 2110G	FREN 212 FSTE 164G FSTE 175 FSTE 263G	Common Unique Unique Unique
FREN 2120 FSTE-FOOD SCIENCE & TECHNOLOGY FSTE 1110G FSTE 1120 FSTE 2110G FSTE 2120	FREN 212 FSTE 164G FSTE 175 FSTE 263G FSTE 275	Common Unique Unique Unique Unique
FREN 2120 FSTE-FOOD SCIENCE & TECHNOLOGY FSTE 1110G FSTE 1120 FSTE 2110G FSTE 2120 FSTE 2130G	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G	Common Unique Unique Unique Unique Unique
FREN 2120 FSTE-FOOD SCIENCE & TECHNOLOGY FSTE 1110G FSTE 1120 FSTE 2110G FSTE 2120 FSTE 2130G FSTE 2996	FREN 212 FSTE 164G FSTE 175 FSTE 263G FSTE 275	Common Unique Unique Unique Unique
FREN 2120 FSTE-FOOD SCIENCE & TECHNOLOGY FSTE 1110G FSTE 1120 FSTE 2110G FSTE 2120 FSTE 2130G FSTE 2996 FWCE-FISH,WILDLF,CONSERV ECOL	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200	Common Unique Unique Unique Unique Unique Unique
FREN 2120 FSTE-FOOD SCIENCE & TECHNOLOGY FSTE 1110G FSTE 1120 FSTE 2110G FSTE 2120 FSTE 2130G FSTE 2996 FWCE-FISH,WILDLF,CONSERV ECOL FWCE 1110G	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200         FWCE 110G	Common Unique Unique Unique Unique Unique Unique Unique
FREN 2120 FSTE-FOOD SCIENCE & TECHNOLOGY FSTE 1110G FSTE 2110G FSTE 2110G FSTE 2120 FSTE 2130G FSTE 2996 FWCE-FISH,WILDLF,CONSERV ECOL FWCE 1110G FWCE 1120	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200         FWCE 110G         FWCE 109	Common Unique Unique Unique Unique Unique Unique Unique
FREN 2120 FSTE-FOOD SCIENCE & TECHNOLOGY FSTE 1110G FSTE 1120 FSTE 2110G FSTE 2120 FSTE 2130G FSTE 2996 FWCE-FISH,WILDLF,CONSERV ECOL FWCE 1110G	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200         FWCE 110G	Common Unique Unique Unique Unique Unique Unique Unique
FREN 2120 FSTE-FOOD SCIENCE & TECHNOLOGY FSTE 1110G FSTE 1120 FSTE 2110G FSTE 2120 FSTE 2130G FSTE 2996 FWCE-FISH,WILDLF,CONSERV ECOL FWCE 1110G FWCE 1110G FWCE 2110 FWCE 2110	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200         FWCE 110G         FWCE 109         FWCE 255	Common Co
FREN 2120FSTE-FOOD SCIENCE & TECHNOLOGYFSTE 1110GFSTE 1120FSTE 2110GFSTE 2120FSTE 2130GFWCE-FISH,WILDLF,CONSERV ECOLFWCE 1110GFWCE 1120FWCE 2110FWCE 2110FWCE 2110FYEXFIRST YEAR EXPERIENCEFYEX 1110	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200         FWCE 110G         FWCE 109	Common Commo Comm Comm
FREN 2120FSTE 120FSTE 1110GFSTE 1120FSTE 2110GFSTE 2120FSTE 2130GFSTE 2996FWCE-FISH,WILDLF,CONSERV ECOLFWCE 1110GFWCE 1120FWCE 1120FWCE 1120FWCE 1120FWCE 1120FWCE 1120FWCE 1120FWCE 1110GFYEX 1110FYEX 1110FYEX 1112	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200         FWCE 110G         FWCE 109         FWCE 255         COLL 101         UNIV 150	Common Common Common Common Cunique Common Common Cunique Cuni
FREN 2120FSTE-FOOD SCIENCE & TECHNOLOGYFSTE 1110GFSTE 1120FSTE 2110GFSTE 2120FSTE 2130GFSTE 2996FWCE-FISH,WILDLF,CONSERV ECOLFWCE 1110GFWCE 1120FWCE 2110FWCE 2110FYEX-FIRST YEAR EXPERIENCEFYEX 1112FYEX 1112FYEX 1115	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200         FWCE 110G         FWCE 109         FWCE 255         COLL 101         UNIV 150         UNIV 115	Common Co
FREN 2120FSTE-FOOD SCIENCE & TECHNOLOGYFSTE 1110GFSTE 1110GFSTE 2110GFSTE 2110GFSTE 2120FSTE 2130GFWCE-FISH,WILDLF,CONSERV ECOLFWCE 1110GFWCE 1110GFWCE 2110FWCE 2110FYEX 1110FYEX 1110FYEX 1112FYEX 1115FYEX 1116	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200         FWCE 110G         FWCE 109         FWCE 255         OLL 101         UNIV 150         UNIV 115         COLL 103	Common Common Common Cunique C
FREN 2120FSTE-FOOD SCIENCE & TECHNOLOGYFSTE 1110GFSTE 1120FSTE 2110GFSTE 2110GFSTE 2120FSTE 2130GFWCE-FISH,WILDLF,CONSERV ECOLFWCE 1110GFWCE 2110FWCE 2110FYEX-FIRST YEAR EXPERIENCEFYEX 1110FYEX 1112FYEX 1115FYEX 1116FYEX 1117	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200         FWCE 110G         FWCE 109         FWCE 255         UNIV 150         UNIV 115         COLL 103         UNIV 114	Common  Unique
FREN 2120         FSTE-FOOD SCIENCE & TECHNOLOGY         FSTE 1110G         FSTE 1120         FSTE 2110G         FSTE 2120         FSTE 2130G         FSTE 2996         FWCE-FISH,WILDLF,CONSERV ECOL         FWCE 1110G         FWCE 1120         FWCE 1110G         FWCE 1110G         FWCE 1110G         FWCE 1110         FWCE 1110         FYEX 1110         FYEX 1110         FYEX 1110         FYEX 1110         FYEX 1115         FYEX 1116         FYEX 1117         FYEX 11130	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200         FWCE 110G         FWCE 109         FWCE 255         COLL 101         UNIV 150         UNIV 115         COLL 103         UNIV 114         COLL 111	Common Unique
FREN 2120FSTE-FOOD SCIENCE & TECHNOLOGYFSTE 1110GFSTE 1120FSTE 2110GFSTE 2120FSTE 2130GFSTE 2996FWCE-FISH,WILDLF,CONSERV ECOLFWCE 1110GFWCE 1110GFWCE 2110FWCE 2110FYEX-FIRST YEAR EXPERIENCEFYEX 1112FYEX 1115FYEX 1116FYEX 1117FYEX 1130FYEX 1131	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200         FWCE 110G         FWCE 109         FWCE 255         OLL 101         UNIV 150         UNIV 115         COLL 103         UNIV 114         COLL 111         UNIV 110	Common Unique
FREN 2120         FSTE-FOOD SCIENCE & TECHNOLOGY         FSTE 1110G         FSTE 1110G         FSTE 2110G         FSTE 2110G         FSTE 2120         FSTE 2130G         FSTE 2996         FWCE-FISH,WILDLF,CONSERV ECOL         FWCE 1110G         FWCE 1110G         FWCE 2110         FWCE 2110         FWCE 2110         FYEX 1112         FYEX 1115         FYEX 1115         FYEX 1116         FYEX 1130         FYEX 1131         FYEX 1132	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200         FWCE 110G         FWCE 109         FWCE 255         OLL 101         UNIV 150         UNIV 115         COLL 103         UNIV 114         COLL 111         UNIV 110         UNIV 112	Common Unique
FREN 2120 <b>FSTE-FOOD SCIENCE &amp; TECHNOLOGY</b> FSTE 1110G         FSTE 1120         FSTE 2110G         FSTE 2110G         FSTE 2130G         FSTE 2996 <b>FWCE-FISH,WILDLF,CONSERV ECOL</b> FWCE 1110G         FWCE 2110         FWCE 2110         FWCE 2110         FYEX-FIRST YEAR EXPERIENCE         FYEX 1112         FYEX 1115         FYEX 1116         FYEX 1117         FYEX 1130         FYEX 1131         FYEX 1132         FYEX 1133	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200         FWCE 110G         FWCE 109         FWCE 255         OLL 101         UNIV 115         COLL 103         UNIV 114         COLL 111         UNIV 110         UNIV 112         COLL 108	Common Unique
FREN 2120         FSTE-FOOD SCIENCE & TECHNOLOGY         FSTE 1110G         FSTE 1110G         FSTE 2110G         FSTE 2110G         FSTE 2120         FSTE 2130G         FSTE 2996         FWCE-FISH,WILDLF,CONSERV ECOL         FWCE 1110G         FWCE 2110         FWCE 2110         FWCE 2110         FWCE 2110         FYEX 1112         FYEX 1115         FYEX 1115         FYEX 1116         FYEX 1130         FYEX 1131         FYEX 1131	FREN 212         FSTE 164G         FSTE 175         FSTE 263G         FSTE 275         FSTE 210G         FSTE 200         FWCE 110G         FWCE 109         FWCE 255         OLL 101         UNIV 150         UNIV 115         COLL 103         UNIV 114         COLL 111         UNIV 110         UNIV 112	Common Unique

FYEX 1141	UNIV 118	Unique
FYEX 1150	UNIV 117	Unique
FYEX 1160	UNIV 101	Unique
FYEX 1170	UNIV 161	Unique
FYEX 1995	UNIV 116	Unique
FYEX 1996	COLL 155	Unique
FYEX 1990	COLL 201	Unique
FYEX 2994	COLL 185	
GENE-GENETICS	COLL 185	Unique
GENE 1110	GENE 110	Unique
GEOG-GEOGRAPHY	GENETTO	Ollique
	0500 1110	0
GEOG 1110G	GEOG 111G	Common
GEOG 1120G	GEOG 112G	Common
GEOG 1130G	GEOG 120G	Common
GEOG 2130	GEOG 281	Unique
GEOG 2610	GEOG 295	Unique
GEOG 2996	GEOG 291	Unique
GEOL-GEOLOGY		2
GEOL 1110G	GEOL 111G	Common
GEOL 2120	GEOG 259	Common
GEOL 2130	GEOG 257	Common
GEOL 2996	GEOL 220	Unique
GNDR-WOMEN'S STUDIES		
GNDR 2110G	W S 201G	Common
GNDR 2120G	HON 218	Unique
GNDR 2120G	W S 202G	Unique
GNDR 316	W S 316	N/A
GNDR 350	W S 350	N/A
GNDR 359	W S 359	N/A
GNDR 360	W S 360	N/A
GNDR 380V	W S 380V	N/A
GNDR 381V	W S 381V	N/A
GNDR 382	W S 382	N/A
GNDR 401	W S 401	N/A
GNDR 402	W S 402	N/A
GNDR 403	W S 403	N/A
GNDR 405	W S 405	N/A
GNDR 406	W S 406	N/A
GNDR 407	W S 407	N/A
GNDR 408	W S 408	N/A
GNDR 411	W S 411	N/A
GNDR 412	W S 412	N/A
GNDR 450	W S 450	N/A
GNDR 451	W S 451	N/A
GNDR 453	W S 453	N/A
GNDR 454	W S 454	N/A
GNDR 455	W S 455	N/A
GNDR 461	W S 461	N/A
GNDR 465	W S 465	N/A
GNDR 468	W S 468	N/A
GNDR 471	W S 471	N/A
GNDR 474	W S 474	N/A

	W 0 400	N1/A
GNDR 482	W S 482	N/A
GNDR 484	W S 484	N/A
GNDR 501	W S 501	N/A
GNDR 502	W S 502	N/A
GNDR 503	W S 503	N/A
GNDR 505	W S 505	N/A
GNDR 506	W S 506	N/A
GNDR 507	W S 507	N/A
GNDR 508	W S 508	N/A
GNDR 511	W S 511	N/A
GNDR 512	W S 512	N/A
GNDR 533	W S 533	N/A
GNDR 550	W S 550	N/A
GNDR 554	W S 554	N/A
GNDR 555	W S 555	N/A
GNDR 561	W S 561	N/A
GNDR 565	W S 565	N/A
GNDR 567	W S 567	N/A
GNDR 571	W S 571	N/A
GNDR 574	W S 574	N/A
GNDR 582	W S 582	N/A
GNDR 584	W S 584	N/A
GRMN-GERMAN		
GRMN 1110	GER 111	Common
GRMN 1120	GER 112	Common
GRMN 2110	GER 211	Common
GRMN 2120	GER 212	Common
GRMN 305	GER 305	N/A
GRMN 313	GER 313	N/A
GRMN 325	GER 325	N/A
GRMN 330	GER 330	N/A
GRMN 333V	GER 333V	N/A
GRMN 340	GER 340	N/A
GRMN 341	GER 341	N/A
GRMN 343	GER 343	N/A
GRMN 350	GER 350	N/A
GRMN 399	GER 399	N/A
GRMN 410	GER 410	N/A
GRMN 413	GER 413	N/A
GRMN 425	GER 524	N/A
GRMN 449	GER 449	N/A
GRMN 451	GER 451	N/A
GRMN 453	GER 453	N/A
GRMN 471	GER 471	N/A
HIST-HISTORY		
HIST 1105G	HIST 110G	Unique
HIST 1110G	HIST 201G	Common
HIST 1120G	HIST 202G	Common
HIST 1130G	HIST 111G	Common
HIST 1140G	HIST 112G	Common
HIST 1150G	HISTIDIG	Common
HIST 1150G HIST 1160G	HIST 101G HIST 102G	Common Common

HIST 2110	HIST 261	Common
HIST 2245G	HIST 221G	Unique
HIST 2246G	HIST 222G	Unique
HIST 2250G	HIST 211G	Unique
HIST 2251G	HIST 212G	Unique
HIST 2996	HIST 269	
HIGT 2990 HLED-HEALTH EDUCATION	HIST 209	Unique
HLED 1154	P E 134	Common
HEED 1154 HMSV-HUMAN SERVICES	P E 134	Common
HMSV-HUMAN SERVICES	S WK 253	Common
HNRS-HONORS	3 WK 233	Common
HNRS 1110		Unique
HNRS 1110 HNRS 2110G	HON 115 HON 210	Unique
		Unique
HNRS 2111	HON 214	Unique
HNRS 2114G	HON 208G	Unique
HNRS 2115G	HON 216G	Unique
HNRS 2116G	HON 219G	Unique
HNRS 2117G	HON 220G	Unique
HNRS 2120G	HON 222G	Unique
HNRS 2140G	HON 227G	Unique
HNRS 2141G	HON 230G	Unique
HNRS 2150G	HON 228G	Unique
HNRS 2160G	HON 229G	Unique
HNRS 2161G	HON 235G	Unique
HNRS 2170G	HON 232G	Unique
HNRS 2171G	HON 234G	Unique
HNRS 2172G	HON 237G	Unique
HNRS 2173G	HON 239G	Unique
HNRS 2174G	HON 249G	Unique
HNRS 2175G	HON 265G	Unique
HNRS 2178G	HON 270G	Unique
HNRS 2180G	HON 248G	Unique
HNRS 2185G	HON 211	Unique
HNRS 2190G	HON 242G	Unique
HNRS 2996	HON 221	Unique
HNRS 304V	HON 304V	N/A
HNRS 306V	HON 306V	N/A
HNRS 308V	HON 308V	N/A
HNRS 313	HON 313	N/A
HNRS 314	HON 314	N/A
HNRS 317V	HON 317V	N/A
HNRS 318V	HON 318V	N/A
HNRS 321V	HON 321V	N/A
HNRS 324V	HON 324V	N/A
HNRS 326V	HON 326V	N/A
HNRS 328V	HON 328V	N/A
HNRS 335V	HON 335V	N/A
HNRS 340V	HON 340V	N/A
HNRS 341V	HON 341V	N/A
HNRS 347V	HON 347V	N/A
HNRS 348V	HON 348V	N/A
HNRS 349V	HON 349V	N/A

	1101105114	
HNRS 351V	HON 351V	N/A
HNRS 353V	HON 353V	N/A
HNRS 362V	HON 362V	N/A
HNRS 365V	HON 365V	N/A
HNRS 366V	HON 366V	N/A
HNRS 370V	HON 370V	N/A
HNRS 371V	HON 371V	N/A
HNRS 374V	HON 374V	N/A
HNRS 375V	HON 375V	N/A
HNRS 378V	HON 378V	N/A
HNRS 379V	HON 379V	N/A
HNRS 380V	HON 380V	N/A
HNRS 381V	HON 381V	N/A
HNRS 384V	HON 384V	N/A
HNRS 387V	HON 387V	N/A
HNRS 388V	HON 388V	N/A
HNRS 390V	HON 390V	N/A
HNRS 394V	HON 394V	N/A
HNRS 400	HON 400	N/A
HNRS 410	HON 410	N/A
HNRS 411V	HON 411	N/A
HNRS 412	HON 412	N/A
HNRS 413	HON 413	N/A
HNRS 420	HON 420	N/A
HNRS 421	HON 421	N/A
HNRS 422	HON 422	N/A
HNRS 425V	HON 425V	N/A
HNRS 450V	HON 450V	N/A
HNRS 521	HON 521	N/A
HORT-HORTICULTURE		
HORT 1115G	HORT 100G	Unique
HORT 2110	HORT 210	Unique
HORT 2120	HORT 211	Unique
HORT 2130	HORT 240	Unique
HORT 2160	HORT 250	Unique
HORT 2990	HORT 241	Unique
HORT 2996	HORT 200	Unique
HRTM-HOTEL/RESTRNT/TOURISM MGT		
HRTM 1110	HRTM 111	Unique
HRTM 1120	HRTM 201	Unique
HRTM 1130	HRTM 221	Unique
HRTM 2110	HRTM 231	Unique
HRTM 2120	HRTM 263	Unique
HRTM 2130	HRTM 235	Unique
HRTM 2996	HRTM 200	Unique
JAPN-JAPANESE		
JAPN 1110	JPNS 111	Common
JAPN 1120	JPNS 112	Common
JAPN 2110	JPNS 211	Common
JAPN 2120	JPNS 212	Common
LIBR-LIBRARY SCIENCE		
LIBR 1110	LIB 101	Unique

LIBR 1111	LIB 111	Unique
LIBR 311V	LIB 311V	N/A
LING-LINGUISTICS		
LING 2110G	LING 200G	Common
MATH-MATHEMATICS		
MATH 1130G	MATH 210G	Common
MATH 1134	MATH 111	Unique
MATH 1215	MATH 120	Common
MATH 1217	MATH 101	Unique
MATH 1220G	MATH 121G	Common
MATH 1221	MATH 102	Unique
MATH 1250G	MATH 190G	Common
MATH 1350G	A ST 251G	Common
MATH 1350G	STAT 251G	Common
MATH 1430G	MATH 142G	Common
MATH 1435	MATH 235	Common
MATH 1440	MATH 236	Common
MATH 1511G	MATH 191G	Unique
MATH 1521G	MATH 192G	Unique
MATH 1521H	MATH 192GH	Unique
MATH 1531	MATH 279	Unique
MATH 1996	MATH 107	Unique
MATH 2134G	MATH 112G	Unique
MATH 2234	MATH 215	Unique
MATH 2350G	STAT 271G	Common
MATH 2415	MATH 280	Unique
MATH 2530G	MATH 291G	Common
MATH 2992	MATH 200	Unique
MGMT-MANAGEMENT		
MGMT 2110	MGT 201	Common
MGMT 309	MGT 309	N/A
MGMT 310V	MGT 310V	N/A
MGMT 315V	MGT 315V	N/A
MGMT 332	MGT 332	N/A
MGMT 333	MGT 333	N/A
MGMT 335V	MGT 335V	N/A
MGMT 344	MGT 344	N/A
MGMT 345V	MGT 345V	N/A
MGMT 347	MGT 347	N/A
MGMT 351	MGT 351	N/A
MGMT 360V	MGT 360V	N/A
MGMT 361	MGT 361	N/A
MGMT 375V	MGT 375V	N/A
MGMT 388V	MGT 388V	N/A
MGMT 391	MGT 391	N/A
MGMT 448	MGT 448	N/A
MGMT 449	MGT 449	N/A
MGMT 451	MGT 451	N/A
MGMT 453	MGT 453	N/A
MGMT 454	MGT 454	N/A
MGMT 458	MGT 458	N/A
MGMT 458 MGMT 460	MGT 458 MGT 460	N/A N/A
#### 72 Common Course Numbering Crosswalk

MGMT 461	MGT 461	N/A
MGMT 465	MGT 465	N/A
MGMT 466	MGT 466	N/A
MGMT 470	MGT 470	N/A
MGMT 490	MGT 490	N/A
MGMT 491	MGT 491	N/A
MGMT 498	MGT 498	N/A
MGMT 502	MGT 502	N/A
MGMT 503	MGT 503	N/A
MGMT 512	MGT 512	N/A
MGMT 527	MGT 527	N/A
MGMT 548	MGT 548	N/A
MGMT 590	MGT 590	N/A
MGMT 591	MGT 591	N/A
MGMT 598	MGT 598	N/A
MGMT 600	MGT 600	N/A
MGMT 601	MGT 601	N/A
MGMT 640	MGT 640	N/A
MGMT 645	MGT 645	N/A
MGMT 650	MGT 650	N/A
MGMT 655	MGT 655	N/A
MGMT 660	MGT 660	N/A
MGMT 661	MGT 661	N/A
MGMT 670	MGT 670	N/A
MGMT 675	MGT 675	N/A
MGMT 685	MGT 685	N/A
MGMT 690	MGT 690	N/A
MGMT 698	MGT 698	N/A
MGMT 700	MGT 700	N/A
MKTG-MARKETING		
MKTG 2110	BMGT 210	Common
MKTG 2110	MKTG 203	Common
MUSC-MUSIC		
MUSC 1110G	MUS 201G	Common
MUSC 1130G	MUS 101G	Common
MUSC 1210	MUS 102	Common
MUSC 1310	MUS 121	Common
MUSC 1410	MUS 250	Common
MUSC 1440	MUS 141	Unique
MUSC 1450	MUS 103	Unique
MUSC 1451	MUS 104	Unique
MUSC 1460	MUS 105	Unique
MUSC 1461	MUS 106	Unique
MUSC 1470	MUS 145	Unique
MUSC 1471	MUS 146	Unique
MUSC 1472	MUS 147	Unique
MUSC 1992	MUS 130	Common
MUSC 2110	MUS 164	Common
MUSC 2110	MUS 171	Common
MUSC 2120	MUS 151	Common
MUSC 2120	MUS 160	Common
MUSC 2120	MUS 161	Common

MUSC 2120	MUS 162	Common
MUSC 2120	MUS 170	Common
MUSC 2120	MUS 172	Common
MUSC 2120	MUS 180	Common
MUSC 2120	MUS 181	Common
MUSC 2130	MUS 163	Common
MUSC 2132	MUS 174	Unique
MUSC 2151	MUS 202	Unique
MUSC 2210	MUS 262	Common
MUSC 2220	MUS 263	Common
MUSC 2240	MUS 207	Unique
MUSC 2310	MUS 273	Common
MUSC 2451	MUS 203	Unique
MUSC 2452	MUS 204	Unique
MUSC 2460	MUS 205	Unique
MUSC 2461	MUS 206	Unique
MUSC 2470	MUS 261	Unique
MUSC 2510	MUS 230	Unique
MUSC 2993	MUS 251	Unique
MUSC 2996	MUS 260	Unique
MUSC 301	MUS 301	N/A
MUSC 302	MUS 302	N/A
MUSC 303	MUS 303	N/A
MUSC 315	MUSC 315	N/A
MUSC 316	MUS 316	N/A
MUSC 317	MUS 317	N/A
MUSC 318	MUS 318	N/A
MUSC 319	MUS 319	N/A
MUSC 320	MUS 320	N/A
MUSC 321	MUS 321	N/A
MUSC 322	MUS 322	N/A
MUSC 323	MUS 323	N/A
MUSC 324	MUS 324	N/A
MUSC 325	MUS 325	N/A
MUSC 326	MUS 326	N/A
MUSC 327	MUS 327	N/A
MUSC 330	MUS 330	N/A
MUSC 339	MUS 339	N/A
MUSC 340	MUS 340	N/A
MUSC 341	MUS 341	N/A
MUSC 346	MUS 346	N/A
MUSC 349	MUS 349	N/A
MUSC 350	MUS 350	N/A
MUSC 351	MUS 351	N/A
MUSC 360	MUS 360	N/A
MUSC 361	MUS 361	N/A
MUSC 362	MUS 362	N/A
MUSC 363	MUS 363	N/A
MUSC 365	MUS 365	N/A
MUSC 368	MUS 368	N/A
MUSC 370	MUS 370	N/A
MUSC 372	MUS 372	N/A

#### 74 Common Course Numbering Crosswalk

MUSC 374	MUS 374	N/A
MUSC 380	MUS 380	N/A
MUSC 381	MUS 381	N/A
MUSC 386	MUSC 386	N/A
MUSC 390	MUS 390	N/A
MUSC 391	MUS 391	N/A
MUSC 392	MUS 392	N/A
MUSC 413	MUS 413	N/A
MUSC 415	MUS 415	N/A
MUSC 417	MUS 417	N/A
MUSC 420	MUS 420	N/A
MUSC 421	MUS 421	N/A
MUSC 422	MUS 422	N/A
MUSC 424	MUS 424	N/A
MUSC 429	MUS 429	N/A
MUSC 430	MUS 430	N/A
MUSC 440	MUS 440	N/A
MUSC 441	MUS 441	N/A
MUSC 450	MUS 450	N/A
MUSC 455	MUS 455	N/A
MUSC 470	MUS 470	N/A
MUSC 471	MUS 471	N/A
MUSC 475	MUS 475	N/A
MUSC 477	MUS 477	N/A
MUSC 486	MUS 486	N/A
MUSC 498	MUS 498	N/A
MUSC 511	MUS 511	N/A
MUSC 513	MUS 513	N/A
MUSC 518	MUS 518	N/A
MUSC 519	MUS 519	N/A
MUSC 521	MUS 521	N/A
MUSC 522	MUS 522	N/A
MUSC 523	MUS 523	N/A
MUSC 527	MUS 527	N/A
MUSC 528	MUS 528	N/A
MUSC 529	MUS 529	N/A
MUSC 530	MUS 530	N/A
MUSC 531	MUS 531	N/A
MUSC 535	MUS 535	N/A
MUSC 540	MUS 540	N/A
MUSC 574	MUS 574	N/A
MUSC 575	MUS 575	N/A
MUSC 576	MUS 576	N/A
MUSC 577	MUS 577	N/A
MUSC 578	MUS 578	N/A
MUSC 579	MUS 579	N/A
MUSC 580	MUS 580	N/A
MUSC 582	MUS 582	N/A
MUSC 586	MUS 586	N/A
MUSC 598	MUS 598	N/A
MUSC 599	MUS 599	N/A
NMNC-NEW MEXICO NURSING EDUCATION CON	SORTIUM	

NMNC 3110	NURS 293	Common
NMNC 3120	NURS 362	Common
NMNC 3135	NURS 294	Common
NMNC 3210	NURS 377	Common
NMNC 3220	NURS 378	Common
NMNC 3230	NURS 379	Common
NMNC 3235	NURS 380	Common
NMNC 4310	NURS 395	Common
NMNC 4320	NURS 396	Common
NMNC 4335	NURS 398	Common
NMNC 4410	NURS 466	Common
NMNC 4435	NURS 467	Common
NMNC 4445	NURS 468	Common
NMNC 4510	NURS 486	Common
NMNC 4520	NURS 487	Common
NMNC 4535	NURS 488	Common
NMNC 4545	NURS 489	Common
NUTR-NUTRITION		
NUTR 2110	HNDS 251	Common
NUTR 2120	HNDS 201	Unique
NUTR 3110	HNDS 350	N/A
NUTR 3120	HNDS 360	N/A
NUTR 3750	HNDS 440	N/A
NUTR 3996	HNDS 450	N/A
NUTR 4110	HNDS 448	N/A
NUTR 4210	HNDS 403	N/A
NUTR 4220	HNDS 430	N/A
NUTR 4230	HNDS 446	N/A
NUTR 4230L	HNDS 446 L	N/A
NUTR 4233	HNDS 420	N/A
NUTR 4235	HNDS 405	N/A
NUTR 4240	HNDS 449	N/A
NUTR 4240L	HNDS 449 L	N/A
NUTR 4550	HNDS 455	N/A
NUTR 4560	HNDS 401	N/A
NUTR 4565	HNDS 407	N/A
NUTR 4911	HNDS 492	N/A
NUTR 5110	HNDS 548	N/A
NUTR 5150	HNDS 500	N/A
NUTR 5210	HNDS 551	N/A
NUTR 5220	HNDS 530	N/A
NUTR 5230	HNDS 546	N/A
NUTR 5230	HNDS 546	N/A
NUTR 5233	HNDS 520	N/A
NUTR 5240	HNDS 549	N/A
NUTR 5610	HNDS 560	N/A
NUTR 5620	HNDS 562	N/A
NUTR 5630	HNDS 563	N/A N/A
NUTR 5640	HNDS 564	N/A N/A
NUTR 5650	HNDS 565	N/A N/A
NUTR 5660	HNDS 566	N/A
NUTR 5680	HNDS 568	N/A N/A
101110000	11120 000	

NUTR 5991	HNDS 598	N/A
NUTR 5996 OATS-OFFICE ADMIN TECH SYSTEMS	HNDS 590	N/A
OATS 101	BOT 101	NI/A
OATS 101 OATS 102		N/A
	BOT 102	N/A
OATS 105	BOT 105	N/A
OATS 106	BOT 106	N/A
OATS 109	BOT 109	N/A
OATS 110	BOT 110	N/A
OATS 120	BOT 120	N/A
OATS 121	BOT 121	N/A
OATS 135	BOT 135	N/A
OATS 140	BOT 140	N/A
OATS 150	BOT 150	N/A
OATS 169	BOT 169	N/A
OATS 170	BOT 170	N/A
OATS 171	BOT 171	N/A
OATS 191	BOT 191	N/A
OATS 202	BOT 202	N/A
OATS 203	BOT 203	N/A
OATS 205	BOT 205	N/A
OATS 206	BOT 206	N/A
OATS 207	BOT 207	N/A
OATS 208	BOT 208	N/A
OATS 209	BOT 209	N/A
OATS 211	BOT 211	N/A
OATS 213	BOT 213	N/A
OATS 214	BOT 214	N/A
OATS 215	BOT 215	N/A
OATS 217	BOT 217	N/A
OATS 218	BOT 218	N/A
OATS 220	BOT 220	N/A
OATS 221	BOT 221	N/A
OATS 222	BOT 222	N/A
OATS 223	BOT 223	N/A
OATS 228	BOT 228	N/A
OATS 233	BOT 233	N/A
OATS 239	BOT 239	N/A
OATS 240	BOT 240	N/A
OATS 241	BOT 241	N/A
OATS 244	BOT 244	N/A
OATS 250	BOT 250	N/A
OATS 255	BOT 255	N/A
OATS 260	BOT 260	N/A
OATS 270	BOT 270	N/A
PHED-PHYSICAL EDUCATION		
PHED 1110	P E 128	Common
PHED 1230	P E 147	Common
PHED 1230	P E 148	Common
PHED 1230	P E 150	Common
PHED 1290	P E 112	Common
PHED 1290	P E 113	Common

PHED 1290	P E 114	Common
PHED 1290	PE115	
PHED 1290 PHED 1290	PE117	Common
		Common
PHED 1290	P E 166	Common
PHED 1310	P E 130	Common
PHED 1320	P E 131	Common
PHED 1410	P E 199	Common
PHED 1430	P E 109	Common
PHED 1510	P E 102	Common
PHED 1510	P E 103	Common
PHED 1510	P E 127	Common
PHED 1620	P E 205	Common
PHED 1630	P E 104	Common
PHED 1670	P E 129	Common
PHED 1710	P E 159	Common
PHED 1710	P E 154	Common
PHED 1830	P E 173	Common
PHED 1910	P E 263	Common
PHED 2996	P E 270	Common
PHIL-PHILOSOPHY		
PHIL 1115G	PHIL 101G	Common
PHIL 1120G	PHIL 211G	Common
PHIL 1140G	PHIL 136G	Unique
PHIL 1145G	PHIL 100G	Unique
PHIL 1155G	PHIL 124G	Unique
PHIL 2110G	PHIL 223G	Common
FRIE 21100	11112 2230	
PHIL 2210G	PHIL 201G	Common
PHIL 2230G		
PHIL 2230G PHLS-PUBLIC HEALTH SCIENCES	PHIL 201G	Common
PHIL 2230G PHLS-PUBLIC HEALTH SCIENCES PHLS 1110G	PHIL 201G PHLS 150G	Common Common
PHIL 2230G PHLS-PUBLIC HEALTH SCIENCES PHLS 1110G PHLS 1111	PHIL 201G PHLS 150G PHLS 100	Common Common Unique
PHIL 2230G PHLS-PUBLIC HEALTH SCIENCES PHLS 1110G PHLS 1111 PHLS 2110	PHIL 201G PHLS 150G PHLS 100 PHLS 275	Common Common Unique Common
PHIL 2230G PHLS-PUBLIC HEALTH SCIENCES PHLS 1110G PHLS 1111 PHLS 2110 PHLS 2120	PHIL 201G PHLS 150G PHLS 100 PHLS 275	Common Common Unique Common
PHIL 2230G PHLS-PUBLIC HEALTH SCIENCES PHLS 1110G PHLS 1111 PHLS 2110 PHLS 2120 PHYS-PHYSICS	PHIL 201G PHLS 150G PHLS 100 PHLS 275 PHLS 295	Common Common Unique Common Common
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1111	PHIL 201G PHLS 150G PHLS 100 PHLS 275 PHLS 295 PHYS 150	Common Common Unique Common Common Unique Unique
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1111         PHYS 1112	PHIL 201G PHLS 150G PHLS 100 PHLS 275 PHLS 295 PHYS 150 PHYS 210	Common Common Unique Common Common Unique
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1111         PHYS 1112         PHYS 1115G         PHYS 1125G	PHIL 201G PHLS 150G PHLS 100 PHLS 275 PHLS 295 PHYS 150 PHYS 110G PHYS 120G	Common Common Unique Common Common Unique Unique Common
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1111         PHYS 1112         PHYS 1115G	PHIL 201G PHLS 150G PHLS 100 PHLS 275 PHLS 295 PHYS 150 PHYS 210 PHYS 110G	Common Common Unique Common Common Unique Unique Common Common
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1112         PHYS 1115G         PHYS 1230G         PHYS 1230L	PHIL 201G         PHLS 150G         PHLS 100         PHLS 275         PHLS 295         PHYS 150         PHYS 150         PHYS 110G         PHYS 110G         PHYS 211G         PHYS 211GL	Common Common Unique Common Unique Unique Unique Common Common Common Common Common
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1112         PHYS 1115G         PHYS 1125G         PHYS 1230G	PHIL 201G         PHLS 150G         PHLS 100         PHLS 275         PHLS 295         PHYS 150         PHYS 150         PHYS 110G         PHYS 120G         PHYS 211G	Common Common Unique Common Unique Unique Unique Common Common Common Common Common
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1112         PHYS 1115G         PHYS 1125G         PHYS 1230G         PHYS 1230G         PHYS 1240G	PHIL 201G         PHLS 150G         PHLS 100         PHLS 275         PHLS 295         PHYS 150         PHYS 150         PHYS 110G         PHYS 120G         PHYS 211G         PHYS 212G         PHYS 212GL	Common Common Unique Common Unique Unique Unique Common Common Common Common Common Common Common
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1112         PHYS 1115G         PHYS 1230G         PHYS 1230G         PHYS 1230L         PHYS 1240D         PHYS 1310G	PHIL 201G         PHLS 150G         PHLS 100         PHLS 275         PHLS 295         PHYS 150         PHYS 150         PHYS 110G         PHYS 110G         PHYS 211G         PHYS 211GL         PHYS 212G         PHYS 215G	Common Common Unique Common Unique Unique Unique Common Common Common Common Common Common Common Common Common
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1112         PHYS 1115G         PHYS 1230G         PHYS 1230G         PHYS 1230G         PHYS 1230L         PHYS 1240L         PHYS 1310G         PHYS 1310L	PHIL 201G         PHLS 150G         PHLS 100         PHLS 275         PHLS 295         PHYS 295         PHYS 150         PHYS 110G         PHYS 110G         PHYS 211G         PHYS 212G         PHYS 215G         PHYS 215GL	Common Co
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1112         PHYS 1115G         PHYS 1125G         PHYS 1230G         PHYS 1240G         PHYS 1310G	PHIL 201G         PHLS 150G         PHLS 100         PHLS 275         PHLS 275         PHLS 295         PHYS 150         PHYS 110G         PHYS 110G         PHYS 211G         PHYS 211GL         PHYS 212G         PHYS 215G         PHYS 215GL         PHYS 205	Common Co
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1111         PHYS 1112         PHYS 1115G         PHYS 1230G         PHYS 1230G         PHYS 1230L         PHYS 1240L         PHYS 1310G         PHYS 1311         PHYS 1310L         PHYS 1320G	PHIL 201G         PHLS 150G         PHLS 100         PHLS 275         PHLS 275         PHLS 295         PHYS 150         PHYS 110G         PHYS 110G         PHYS 211G         PHYS 211G         PHYS 212G         PHYS 212G         PHYS 215G         PHYS 215G         PHYS 215G         PHYS 205         PHYS 216G	Common Co
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1111         PHYS 1115G         PHYS 1125G         PHYS 1230L         PHYS 1240L         PHYS 1310G         PHYS 1310L         PHYS 1320G         PHYS 1310L         PHYS 1320L	PHIL 201G         PHLS 150G         PHLS 100         PHLS 275         PHLS 295         PHYS 295         PHYS 150         PHYS 110G         PHYS 110G         PHYS 211G         PHYS 211GL         PHYS 212G         PHYS 215G         PHYS 215GL         PHYS 216G         PHYS 216GL	Common Co
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1112         PHYS 1115G         PHYS 1230G         PHYS 1230G         PHYS 1230G         PHYS 1230G         PHYS 1310G         PHYS 1310L         PHYS 1320G         PHYS 1310         PHYS 1310         PHYS 1320G         PHYS 1311         PHYS 1320G         PHYS 1320L	PHIL 201G         PHLS 150G         PHLS 100         PHLS 275         PHLS 295         PHYS 295         PHYS 150         PHYS 110G         PHYS 110G         PHYS 211G         PHYS 211GL         PHYS 212GL         PHYS 215G         PHYS 215GL         PHYS 216GL         PHYS 216GL         PHYS 206	Common Co
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1112         PHYS 1115G         PHYS 1230G         PHYS 1230G         PHYS 1230G         PHYS 1230G         PHYS 1230G         PHYS 1310G         PHYS 1310G         PHYS 1310L         PHYS 1320G         PHYS 1310L         PHYS 1310L         PHYS 1310L         PHYS 1320G         PHYS 1310L         PHYS 1310L         PHYS 1310L         PHYS 1310L         PHYS 1320L         PHYS 1320L         PHYS 1321         PHYS 1321	PHIL 201G         PHLS 150G         PHLS 100         PHLS 275         PHLS 275         PHLS 295         PHYS 150         PHYS 110G         PHYS 110G         PHYS 110G         PHYS 211G         PHYS 211G         PHYS 211GL         PHYS 212G         PHYS 215G         PHYS 215G         PHYS 215GL         PHYS 216G         PHYS 216G         PHYS 216G         PHYS 216         PHYS 213	Common Co
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1111         PHYS 1115G         PHYS 1125G         PHYS 12300         PHYS 12301         PHYS 12302         PHYS 12301         PHYS 1310G         PHYS 13101         PHYS 13102         PHYS 13101         PHYS 13202         PHYS 13201         PHYS 13201         PHYS 1321         PHYS 1321         PHYS 21101	PHIL 201G         PHLS 150G         PHLS 100         PHLS 275         PHLS 275         PHLS 295         PHYS 150         PHYS 110G         PHYS 110G         PHYS 210         PHYS 110G         PHYS 211G         PHYS 211GL         PHYS 211GL         PHYS 212G         PHYS 215G         PHYS 215G         PHYS 205         PHYS 216GL         PHYS 213         PHYS 213 L	Common Co
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1111         PHYS 1112         PHYS 1115G         PHYS 1230G         PHYS 1230G         PHYS 1230G         PHYS 1240L         PHYS 1310G         PHYS 1310L         PHYS 1320G         PHYS 1320G         PHYS 1310L         PHYS 1320G         PHYS 1320G         PHYS 1310L         PHYS 1320G         PHYS 1320L         PHYS 13211         PHYS 2110L         PHYS 2110L         PHYS 2111	PHIL 201G         PHLS 150G         PHLS 100         PHLS 275         PHLS 295         PHYS 295         PHYS 150         PHYS 110G         PHYS 110G         PHYS 210         PHYS 120G         PHYS 211G         PHYS 211G         PHYS 215G         PHYS 215G         PHYS 215G         PHYS 216G         PHYS 213         PHYS 213 L         PHYS 203	Common Co
PHIL 2230G         PHLS-PUBLIC HEALTH SCIENCES         PHLS 1110G         PHLS 1111         PHLS 2110         PHLS 2120         PHYS-PHYSICS         PHYS 1111         PHYS 1115G         PHYS 1125G         PHYS 12300         PHYS 12301         PHYS 12302         PHYS 12301         PHYS 1310G         PHYS 13101         PHYS 13102         PHYS 13101         PHYS 13102         PHYS 13101         PHYS 13102         PHYS 13101         PHYS 13101         PHYS 13101         PHYS 13101         PHYS 13101         PHYS 13101         PHYS 13201         PHYS 1321         PHYS 21101	PHIL 201G         PHLS 150G         PHLS 100         PHLS 275         PHLS 275         PHLS 295         PHYS 150         PHYS 110G         PHYS 110G         PHYS 210         PHYS 110G         PHYS 211G         PHYS 211GL         PHYS 211GL         PHYS 212G         PHYS 215G         PHYS 215G         PHYS 205         PHYS 216GL         PHYS 213         PHYS 213 L	Common Co

PHYS 2121PHYS 214UniquePHYS 2140PHYS 2141UniquePHYS 2141PHYS 2141UniquePHYS 2141PHYS 22161UniquePHYS 22306PHYS 22161UniquePHYS 22301PHYS 2217UniquePHYS 22301PHYS 22181UniquePHYS 22301PHYS 2230UniquePHYS 22301GOVT 1016CommonPOLS-PUTCAL SCIENCECommonPOLS 11101GOVT 1006CommonPOLS 11202GOVT 201UniquePOLS 2017GOVT 201N/APOLS 2014GOVT 201 <t< th=""><th>PHYS 2121</th><th>PHYS 218</th><th>Unique</th></t<>	PHYS 2121	PHYS 218	Unique
PHYS 214LPHYS 214LUniquePHYS 2214PHYS 2216UniquePHYS 2216PHYS 2216UniquePHYS 2230LPHYS 2216CommonPHYS 2230LPHYS 2230LCommonPHYS 2240GPHYS 2230LUniquePHYS 2240GPHYS 2230LUniquePHYS 2240GPHYS 2230LUniquePHYS 2240GPHYS 2230LUniquePHYS 2340LPHYS 2230LUniquePHYS 2340LPHYS 2340LCommonPHYS 2340LPHYS 2340LUniquePHYS 2340LPHYS 2340LCommonPHYS 2340LGOVT 100GCommonPUS 2110LGOVT 100GCommonPOLS 1110LGOVT 100GCommonPOLS 1110LGOVT 100GCommonPOLS 230GGOVT 201UniquePOLS 230GGOVT 201N/APOLS 230GGOVT 301N/APOLS 230GGOVT 314N/APOLS 230GGOVT 324N/APOLS 230GGOVT 345N/APOLS 230CGOVT 345N/APOLS 230CGOVT 345N/APOLS 230CGOVT 345N/APOLS 230CGOVT 356N/APOLS 230CGOVT 360 <t< td=""><td></td><td></td><td></td></t<>			
PHYS 2141PHYS 2141UniquePHYS 2230GPHYS 221GUniquePHYS 2230LPHYS 2231CommonPHYS 2240LPHYS 2240UniquePHYS 2240LPHYS 2240LUniquePHYS 2240LPHYS 2240LCommonPHYS 2240LGOVT 101UniquePHYS 2240LGOVT 101UniquePUS-POLITICAL SCIENCECommonCommonPUS 1120GGOVT 100GCommonPUS 1120GGOVT 100GCommonPUS 1120GGOVT 100GCommonPUS 1120GGOVT 301NAPUS 301GOVT 301NAPUS 303GOVT 301NAPUS 314GOVT 315NAPUS 315GOVT 324NAPUS 325GOVT 324NAPUS 331GOVT 331NAPUS 334GOVT 344NAPUS 334GOVT 345NAPUS 344GOVT 344NAPUS 344GOVT 345NAPUS 344GOVT 345NAPUS 344GOVT 345NAPUS 344GOVT 345NAPUS 344GOVT 350NAPUS 344GOVT 361NAPUS 344 <td></td> <td></td> <td></td>			
PHYS 22306PHYS 2216UniquePHYS 2231PHYS 2216UniquePHYS 22306PHYS 2236UniquePHYS 22306PHYS 2236UniquePHYS 22307PHYS 22308UniquePHYS 22308PHYS 22308UniquePHYS 22309PHYS 22308UniquePHYS 2997PHYS 2909UniquePUS 29097PHYS 2909UniquePUS 29101GOVT 1006CommonPOLS 11102GOVT 1007CommonPOLS 11103GOVT 1007CommonPOLS 11203GOVT 1006CommonPOLS 21204GOVT 1006CommonPOLS 21205GOVT 201UniquePOLS 21205GOVT 201NAPOLS 2130GOVT 201NAPOLS 2130GOVT 201NAPOLS 2131GOVT 201NAPOLS 2132GOVT 201NAPOLS 2133GOVT 211NAPOLS 2134GOVT 224NAPOLS 235GOVT 230NAPOLS 235GOVT 231NAPOLS 234GOVT 331NAPOLS 234GOVT 344NAPOLS 234GOVT 345NAPOLS 235GOVT 350NAPOLS 236GOVT 350NAPOLS 2370GOVT 360 <td></td> <td></td> <td></td>			
PHYS 2230LPHYS 2216LUnquePHYS 2230LPHYS 2231CommonPHYS 2240CPHYS 2231UniquePHYS 2240LPHYS 2231UniquePHYS 2240LPHYS 2241UniquePHYS 2240LPHYS 2241UniquePHYS 2299PHYS 2241UniquePHYS 2297PHYS 2240UniquePOLS-POLITICAL SCIENCECommonPOLS-POLITICAL SCIENCECommonPOLS 1110GGOVT 100CommonPOLS 11130GGOVT 101GCommonPOLS 11130GGOVT 101GCommonPOLS 1120GGOVT 101GCommonPOLS 2120GGOVT 100GCommonPOLS 2120GGOVT 100GCommonPOLS 2120GGOVT 201N/APOLS 308GOVT 301N/APOLS 313GOVT 314N/APOLS 314GOVT 315N/APOLS 321GOVT 321N/APOLS 321GOVT 321N/APOLS 323GOVT 323N/APOLS 324GOVT 324N/APOLS 325GOVT 325N/APOLS 324GOVT 324N/APOLS 324GOVT 324N/APOLS 324GOVT 324N/APOLS 324GOVT 324N/APOLS 324GOVT 324N/APOLS 325GOVT 324N/APOLS 326GOVT 324N/APOLS 327GOVT 324N/APOLS 328GOVT 324N/APOLS 326GOVT 326N/APOLS 326GOV			
PHYS 2231PHYS 2231CommonPHYS 22406PHYS 2226UniquePHYS 22401PHYS 2226CommonPHYS 2297PHYS 230CommonPHYS 2397PHYS 230UniquePOLS-POLTCAL SCIENCECommonPOLS 11106GOVT 106CommonPOLS 11130GOVT 106CommonPOLS 11206GOVT 1060CommonPOLS 11206GOVT 1060CommonPOLS 1206GOVT 1060CommonPOLS 2306GOVT 301UniquePOLS 2306GOVT 301NAPOLS 2306GOVT 301NAPOLS 303GOVT 314NAPOLS 303GOVT 314NAPOLS 304GOVT 314NAPOLS 305GOVT 321NAPOLS 304GOVT 321NAPOLS 331GOVT 321NAPOLS 332GOVT 323NAPOLS 333GOVT 335NAPOLS 334GOVT 335NAPOLS 334GOVT 344NAPOLS 343GOVT 345NAPOLS 343GOVT 345NAPOLS 345GOVT 345NAPOLS 345GOVT 345NAPOLS 346GOVT 360NAPOLS 347GOVT 360NAPOLS 366G			
PHYS 2240GPHYS 222GUniquePHYS 224LPHYS 224LCommonPHYS 224DPHYS 224CCommonPHYS 299GPHYS 280UniquePHYS 299GPHYS 280UniquePOLS-POLITICAL SCIENCEEPOLS 1110GGOVT 10GCommonPOLS 1111GOVT 10GCommonPOLS 11120GGOVT 100GCommonPOLS 1130GGOVT 100GCommonPOLS 2120GGOVT 100GCommonPOLS 2130GGOVT 300N/APOLS 308GOVT 301N/APOLS 313GOVT 303N/APOLS 313GOVT 313N/APOLS 313GOVT 321N/APOLS 324GOVT 322N/APOLS 325GOVT 324N/APOLS 326GOVT 324N/APOLS 327GOVT 330N/APOLS 328GOVT 330N/APOLS 330GOVT 334N/APOLS 335GOVT 344N/APOLS 335GOVT 345N/APOLS 344GOVT 344N/APOLS 345GOVT 345N/APOLS 345GOVT 346N/APOLS 345GOVT 346N/APOLS 346GOVT 360N/APOLS 347GOVT 362N/APOLS 345GOVT 364N/APOLS 345GOVT 364N/APOLS 345GOVT 364N/APOLS 345GOVT 364N/APOLS 345GOVT 364N/APOLS 345GOVT 364N/AP			
PHYS 2240LPHYS 224LUniquePHYS 2241PHYS 224CommonPHYS 2950PHYS 204UniquePHYS 297PHYS 204UniquePDLS-POLITCAL SCIENCECommonPOLS-110CGOVT 110GCommonPOLS 1110GOVT 101GCommonPOLS 11130GGOVT 101GCommonPOLS 1120GGOVT 100GCommonPOLS 120GGOVT 100GCommonPOLS 200GGOVT 201UniquePOLS 200GGOVT 201UniquePOLS 200GGOVT 201N/APOLS 200GGOVT 303N/APOLS 201GGOVT 314NAPOLS 201GGOVT 314NAPOLS 201GGOVT 321N/APOLS 202GGOVT 321N/APOLS 203GGOVT 324N/APOLS 203GGOVT 324N/APOLS 203GGOVT 325N/APOLS 203GGOVT 326N/APOLS 203GGOVT 335N/APOLS 203GGOVT 344N/APOLS 203GGOVT 345N/APOLS 203GGOVT 345N/APOLS 203GGOVT 356N/APOLS 203GGOVT 356N/APOLS 203GGOVT 366N/APOLS 203GGOVT 366N/APOLS 203GGOVT 367N/APOLS 203GGOVT 366N/APOLS 203GGOVT 367N/APOLS 203GGOVT 367N/APOLS 203GGOVT 367N/APOLS 203GGOVT 377<			
PHYS 2241PHYS 224CommonPHYS 2396PHYS 280UniquePHYS 2597PHYS 280UniquePOLS 7010GOVT 101UniquePOLS 11106GOVT 101UniquePOLS 111205GOVT 1006CommonPOLS 111206GOVT 150GCommonPOLS 11205GOVT 150GCommonPOLS 2396GOVT 201UniquePOLS 2396GOVT 300N/APOLS 3136GOVT 314N/APOLS 313GOVT 315N/APOLS 321GOVT 321N/APOLS 325GOVT 323N/APOLS 325GOVT 324N/APOLS 325GOVT 325N/APOLS 325GOVT 333N/APOLS 325GOVT 324N/APOLS 325GOVT 325N/APOLS 324GOVT 334N/APOLS 325GOVT 325N/APOLS 324GOVT 325N/APOLS 325GOVT 325N/APOLS 324GOVT 345N/APOLS 345GOVT 345N/APOLS 345GOVT 345N/APOLS 345GOVT 350N/APOLS 345GOVT 350N/APOLS 346GOVT 360N/APOLS 346GOVT 361N/APOLS 346GOVT 362N/APOLS 346GOVT 364N/APOLS 346GOVT 364N/APOLS 346GOVT 364N/APOLS 347GOVT 377N/APOLS 370GOVT 377N/APOL			
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PHYS 280UniquePOLS-POLTRCAL SCIENCEPOLS 11106GVVT 101UniquePOLS 11106GVVT 100CommonPOLS 11206GVVT 100GCommonPOLS 11206GVVT 100GCommonPOLS 21206GVVT 100GCommonPOLS 21206GVVT 201UniquePOLS 2026GVVT 201N/APOLS 2026GVVT 303N/APOLS 2026GVVT 301N/APOLS 303GVT 303N/APOLS 314GVT 315N/APOLS 315GVT 324N/APOLS 324GVT 324N/APOLS 325GVT 325N/APOLS 330GVT 324N/APOLS 330GVT 330N/APOLS 331GVT 334N/APOLS 334GVT 343N/APOLS 334GVT 343N/APOLS 335GVT 354N/APOLS 334GVT 344N/APOLS 335GVT 354N/APOLS 354GVT 364N/APOLS 354GVT 364N/APOLS 354GVT 364N/APOLS 354GVT 364N/APOLS 357GVT 377N/APOLS 357GVT 377N/APOLS 377GVT 374N/APOLS 376GVT 374N/APOLS 377GVT 374N/APOLS 376GVT 374N/APOLS 377GVT 374N/APOLS 376GVT 374N/APOLS 377GVT 378N/APOLS 376 <t< td=""><td></td><td></td><td></td></t<>			
POLS-POLITICAL SCIENCEPOLS-I11106GVT 10CommonPOLS-111206GOVT 1006CommonPOLS-11206GOVT 1006CommonPOLS-12026GOVT 1006CommonPOLS-22026GOVT 201UniquePOLS-2026GOVT 300N/APOLS-3130GOVT 301N/APOLS-3131GOVT 313N/APOLS-3131GOVT 314N/APOLS-312GOVT 312N/APOLS-313GOVT 314N/APOLS-314GOVT 320N/APOLS-315GOVT 321N/APOLS-325GOVT 325N/APOLS-336GOVT 324N/APOLS-337GOVT 325N/APOLS-338GOVT 334N/APOLS-334GOVT 344N/APOLS-344GOVT 345N/APOLS-345GOVT 345N/APOLS-345GOVT 345N/APOLS-345GOVT 345N/APOLS-345GOVT 345N/APOLS-345GOVT 345N/APOLS-345GOVT 345N/APOLS-345GOVT 361N/APOLS-345GOVT 361N/APOLS-346GOVT 376N/APOLS-347GOVT 377N/APOLS-347GOVT 376N/APOLS-347GOVT 372N/APOLS-347GOVT 376N/APOLS-347GOVT 376N/APOLS-347GOVT 376N/APOLS-347GOVT 376N/A <trr>POLS-347GOVT 376&lt;</trr>			
POLS 1110GOVT 110 GoVT 101UniquePOLS 1120GOVT 100 GoVT 000 CommonPOLS 11306GOVT 100G CommonPOLS 21206GOVT 100G CommonPOLS 21206GOVT 100G CommonPOLS 21206GOVT 201 UniquePOLS 300GOVT 300 N/APOLS 313GOVT 313 N/APOLS 313GOVT 314 N/APOLS 314GOVT 320 N/APOLS 315GOVT 320 N/APOLS 320GOVT 320 N/APOLS 321GOVT 321 N/APOLS 322GOVT 322 N/APOLS 323GOVT 323 N/APOLS 324GOVT 330 N/APOLS 325GOVT 330 N/APOLS 326GOVT 330 N/APOLS 327GOVT 330 N/APOLS 338GOVT 330 N/APOLS 339GOVT 344 N/APOLS 344GOVT 345 N/APOLS 345GOVT 345 N/APOLS 346GOVT 346 N/APOLS 347GOVT 350 N/APOLS 348GOVT 346 N/APOLS 349GOVT 354 N/APOLS 354GOVT 354 N/APOLS 354GOVT 354 N/APOLS 354GOVT 360 N/APOLS 356GOVT 360 N/APOLS 357GOVT 361 N/APOLS 366GOVT 362 N/APOLS 377M/APOLS 377GOVT 377 <n td="">POLS 376GOVT 378 N/APOLS 377GOVT 378 N/APOLS 378GOVT 378 N/APOLS 378GOVT 378 N/APOLS 378GOVT 378<n td="">POLS 379GOVT 378<n td="">POLS 379GOVT 378<n td="">POLS 379GOV</n></n></n></n>		FH13 200	Onique
POLS 1111GOVT 101UniquePOLS 11206GOVT 1006CommonPOLS 21206GOVT 1606CommonPOLS 21207GOVT 201UniquePOLS 22996GOVT 201N/APOLS 308GOVT 300N/APOLS 313GOVT 313N/APOLS 314GOVT 315N/APOLS 315GOVT 320N/APOLS 320GOVT 321N/APOLS 324GOVT 324N/APOLS 325GOVT 325N/APOLS 326GOVT 331N/APOLS 327GOVT 320N/APOLS 328GOVT 323N/APOLS 324GOVT 331N/APOLS 335GOVT 335N/APOLS 336GOVT 335N/APOLS 334GOVT 344N/APOLS 344GOVT 345N/APOLS 345GOVT 350N/APOLS 346GOVT 351N/APOLS 345GOVT 351N/APOLS 346GOVT 361N/APOLS 360GOVT 361N/APOLS 364GOVT 361N/APOLS 366GOVT 367N/APOLS 367GOVT 367N/APOLS 372GOVT 372N/APOLS 374GOVT 373N/APOLS 375GOVT 375N/APOLS 376GOVT 375N/APOLS 376GOVT 378N/APOLS 376GOVT 378N/APOLS 376GOVT 378N/APOLS 376GOVT 378N/APOLS 376GOVT 378 </td <td></td> <td>COVT 110C</td> <td>Common</td>		COVT 110C	Common
POLS 1120GGOVT 100GCommonPOLS 1130GGOVT 150GCommonPOLS 229GGOVT 201UniquePOLS 239AGOVT 300N/APOLS 300GOVT 300N/APOLS 314GOVT 314N/APOLS 315GOVT 321N/APOLS 324GOVT 324N/APOLS 330GOVT 331N/APOLS 324GOVT 324N/APOLS 330GOVT 333N/APOLS 324GOVT 331N/APOLS 325GOVT 325N/APOLS 330GOVT 331N/APOLS 333GOVT 331N/APOLS 334GOVT 335N/APOLS 344GOVT 344N/APOLS 345GOVT 350N/APOLS 346GOVT 350N/APOLS 346GOVT 350N/APOLS 346GOVT 360N/APOLS 345GOVT 360N/APOLS 345GOVT 360N/APOLS 346GOVT 360N/APOLS 346GOVT 360N/APOLS 360GOVT 360N/APOLS 361GOVT 361N/APOLS 362GOVT 362N/APOLS 364GOVT 364N/APOLS 376GOVT 371N/APOLS 376GOVT 372N/APOLS 376GOVT 373N/APOLS 376GOVT 374N/APOLS 376GOVT 374N/APOLS 376GOVT 378N/APOLS 376GOVT 378N/APOLS 376GOVT 378 <td< td=""><td></td><td></td><td></td></td<>			
POLS 11306GOVT 150GCommonPOLS 21206GOVT 160GOmmonPOLS 2996GOVT 300N/APOLS 300GOVT 308N/APOLS 313GOVT 313N/APOLS 314GOVT 314N/APOLS 315GOVT 321N/APOLS 324GOVT 324N/APOLS 335GOVT 335N/APOLS 336GOVT 324N/APOLS 325GOVT 330N/APOLS 336GOVT 331N/APOLS 337GOVT 334N/APOLS 338GOVT 334N/APOLS 339GOVT 334N/APOLS 334GOVT 344N/APOLS 344GOVT 345N/APOLS 345GOVT 345N/APOLS 346GOVT 346N/APOLS 345GOVT 350N/APOLS 346GOVT 354N/APOLS 345GOVT 354N/APOLS 346GOVT 360N/APOLS 356GOVT 360N/APOLS 366GOVT 367N/APOLS 367GOVT 367N/APOLS 366GOVT 367N/APOLS 367GOVT 371N/APOLS 372GOVT 373N/APOLS 374GOVT 374N/APOLS 376GOVT 375N/APOLS 376GOVT 376N/APOLS 376GOVT 378N/APOLS 376GOVT 378N/APOLS 376GOVT 378N/APOLS 376GOVT 378N/APOLS 376GOVT 378N/A<			
POLS 21206GOVT 160GCommonPOLS 2996GOVT 201UniquePOLS 300GOVT 300N/APOLS 308GOVT 308N/APOLS 313GOVT 313N/APOLS 314GOVT 314N/APOLS 315GOVT 315N/APOLS 320GOVT 320N/APOLS 321GOVT 324N/APOLS 325GOVT 325N/APOLS 326GOVT 330N/APOLS 327GOVT 331N/APOLS 328GOVT 332N/APOLS 329GOVT 330N/APOLS 330GOVT 331N/APOLS 334GOVT 344N/APOLS 344GOVT 343N/APOLS 345GOVT 350N/APOLS 346GOVT 353N/APOLS 354GOVT 354N/APOLS 354GOVT 353N/APOLS 356GOVT 360N/APOLS 366GOVT 361N/APOLS 367GOVT 370N/APOLS 367GOVT 371N/APOLS 371GOVT 373N/APOLS 375GOVT 373N/APOLS 376GOVT 373N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/A			
POLS 2996GOVT 201UniquePOLS 300GOVT 300N/APOLS 303GOVT 308N/APOLS 313GOVT 313N/APOLS 314GOVT 314N/APOLS 315GOVT 315N/APOLS 320GOVT 320N/APOLS 321GOVT 321N/APOLS 322GOVT 320N/APOLS 323GOVT 324N/APOLS 324GOVT 330N/APOLS 325GOVT 330N/APOLS 336GOVT 331N/APOLS 337GOVT 344N/APOLS 344GOVT 345N/APOLS 345GOVT 346N/APOLS 346GOVT 350N/APOLS 347GOVT 350N/APOLS 348GOVT 360N/APOLS 354GOVT 360N/APOLS 354GOVT 360N/APOLS 360GOVT 361N/APOLS 362GOVT 362N/APOLS 364GOVT 361N/APOLS 370GOVT 371N/APOLS 371GOVT 372N/APOLS 372GOVT 373N/APOLS 374GOVT 373N/APOLS 375GOVT 374N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 376GOVT 379N/APOLS 376GOVT 379N/A			
POLS 300         GOVT 300         N/A           POLS 308         GOVT 308         N/A           POLS 313         GOVT 308         N/A           POLS 314         GOVT 314         N/A           POLS 315         GOVT 314         N/A           POLS 320         GOVT 321         N/A           POLS 321         GOVT 321         N/A           POLS 324         GOVT 324         N/A           POLS 330         GOVT 330         N/A           POLS 331         GOVT 331         N/A           POLS 335         GOVT 331         N/A           POLS 334         GOVT 343         N/A           POLS 343         GOVT 344         N/A           POLS 344         GOVT 345         N/A           POLS 345         GOVT 350         N/A           POLS 346         GOVT 353         N/A           POLS 347         GOVT 354         N/A           POLS 348         GOVT 353         N/A           POLS 344         GOVT 354         N/A           POLS 356         GOVT 361         N/A           POLS 366         GOVT 361         N/A           POLS 366         GOVT 367         N/A <td< td=""><td></td><td></td><td></td></td<>			
POLS 308GOVT 308N/APOLS 313GOVT 313N/APOLS 314GOVT 314N/APOLS 315N/APOLS 320GOVT 320N/APOLS 321GOVT 321N/APOLS 322GOVT 324N/APOLS 323GOVT 325N/APOLS 330GOVT 330N/APOLS 331GOVT 335N/APOLS 344GOVT 344N/APOLS 345GOVT 345N/APOLS 346GOVT 345N/APOLS 345GOVT 345N/APOLS 345GOVT 348N/APOLS 345GOVT 350N/APOLS 345GOVT 348N/APOLS 345GOVT 360N/APOLS 345GOVT 360N/APOLS 345GOVT 360N/APOLS 345GOVT 360N/APOLS 345GOVT 360N/APOLS 346GOVT 360N/APOLS 361GOVT 360N/APOLS 362GOVT 367N/APOLS 370GOVT 372N/APOLS 371GOVT 372N/APOLS 372GOVT 375N/APOLS 376GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 376GOVT 379N/APOLS 376GOVT 379N/APOLS 376GOVT 379N/APOLS 376GOVT 379N/APOLS 376GOVT 379N/APOLS 376GOVT 379N/APOLS 376 <td></td> <td></td> <td></td>			
POLS 313GOVT 313N/APOLS 314GOVT 314N/APOLS 321GOVT 320N/APOLS 321GOVT 321N/APOLS 324GOVT 324N/APOLS 325GOVT 325N/APOLS 326GOVT 330N/APOLS 335GOVT 330N/APOLS 335GOVT 344N/APOLS 335GOVT 343N/APOLS 344GOVT 344N/APOLS 345GOVT 345N/APOLS 346GOVT 346N/APOLS 347GOVT 350N/APOLS 348GOVT 350N/APOLS 353GOVT 350N/APOLS 354GOVT 360N/APOLS 354GOVT 361N/APOLS 362GOVT 366N/APOLS 366GOVT 367N/APOLS 370GOVT 377N/APOLS 371GOVT 373N/APOLS 373GOVT 373N/APOLS 374GOVT 373N/APOLS 375GOVT 373N/APOLS 376GOVT 379N/APOLS 378GOVT 379N/A <tr< td=""><td></td><td></td><td></td></tr<>			
POLS 314GOVT 314N/APOLS 315GOVT 315N/APOLS 320GOVT 320N/APOLS 321GOVT 321N/APOLS 324GOVT 324N/APOLS 325GOVT 325N/APOLS 330GOVT 330N/APOLS 331GOVT 331N/APOLS 334GOVT 344N/APOLS 344GOVT 345N/APOLS 345GOVT 345N/APOLS 346GOVT 345N/APOLS 345GOVT 345N/APOLS 346GOVT 350N/APOLS 347GOVT 354N/APOLS 348GOVT 354N/APOLS 350GOVT 354N/APOLS 361GOVT 360N/APOLS 362GOVT 360N/APOLS 364GOVT 367N/APOLS 367GOVT 376N/APOLS 367GOVT 377N/APOLS 371GOVT 372N/APOLS 375GOVT 375N/APOLS 375GOVT 375N/APOLS 376GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 380VGOVT 379N/A			
POLS 315GOVT 315N/APOLS 320GOVT 320N/APOLS 321GOVT 321N/APOLS 324GOVT 324N/APOLS 325GOVT 325N/APOLS 330GOVT 330N/APOLS 331GOVT 331N/APOLS 333GOVT 343N/APOLS 344GOVT 344N/APOLS 345GOVT 350N/APOLS 346GOVT 343N/APOLS 347GOVT 350N/APOLS 348GOVT 350N/APOLS 350GOVT 353N/APOLS 354GOVT 354N/APOLS 356GOVT 360N/APOLS 356GOVT 361N/APOLS 362GOVT 366N/APOLS 370GOVT 377N/APOLS 375GOVT 373N/APOLS 375GOVT 373N/APOLS 375GOVT 373N/APOLS 375GOVT 378N/APOLS 378GOVT 378N/APOLS 379GOVT 3780VN/APOLS 379GOVT 3780VN/A			
POLS 320GOVT 320N/APOLS 321GOVT 321N/APOLS 324GOVT 324N/APOLS 325GOVT 325N/APOLS 330GOVT 330N/APOLS 331GOVT 331N/APOLS 335GOVT 343N/APOLS 344GOVT 344N/APOLS 345GOVT 355N/APOLS 346GOVT 345N/APOLS 347GOVT 350N/APOLS 348GOVT 350N/APOLS 350GOVT 350N/APOLS 354GOVT 354N/APOLS 356GOVT 360N/APOLS 360GOVT 361N/APOLS 361GOVT 366N/APOLS 366GOVT 367N/APOLS 367GOVT 370N/APOLS 370GOVT 371N/APOLS 372GOVT 373N/APOLS 375GOVT 373N/APOLS 375GOVT 378N/APOLS 378GOVT 378N/APOLS 378GOVT 378N/APOLS 379GOVT 3780VN/A			
POLS 321GOVT 321N/APOLS 324GOVT 324N/APOLS 325GOVT 325N/APOLS 330GOVT 330N/APOLS 331GOVT 331N/APOLS 335GOVT 335N/APOLS 344GOVT 343N/APOLS 345GOVT 345N/APOLS 346GOVT 350N/APOLS 350GOVT 343N/APOLS 348GOVT 346N/APOLS 350GOVT 350N/APOLS 353GOVT 350N/APOLS 354GOVT 350N/APOLS 354GOVT 350N/APOLS 360GOVT 360N/APOLS 361GOVT 362N/APOLS 365GOVT 362N/APOLS 366GOVT 366N/APOLS 367GOVT 370N/APOLS 370GOVT 371N/APOLS 371GOVT 372N/APOLS 373GOVT 373N/APOLS 374GOVT 374N/APOLS 375GOVT 375N/APOLS 376GOVT 376N/APOLS 377GOVT 378N/APOLS 378GOVT 378N/APOLS 379GOVT 378N/APOLS 380VGOVT 380VN/A			
POLS 324GOVT 324N/APOLS 325GOVT 325N/APOLS 330GOVT 330N/APOLS 331GOVT 331N/APOLS 335GOVT 335N/APOLS 343GOVT 344N/APOLS 345GOVT 345N/APOLS 346GOVT 350N/APOLS 350GOVT 350N/APOLS 354GOVT 350N/APOLS 354GOVT 354N/APOLS 360GOVT 360N/APOLS 361GOVT 361N/APOLS 362GOVT 362N/APOLS 364GOVT 370N/APOLS 367GOVT 370N/APOLS 370GOVT 371N/APOLS 372GOVT 375N/APOLS 375GOVT 375N/APOLS 375GOVT 376N/APOLS 375GOVT 379N/APOLS 375GOVT 379N/APOLS 375GOVT 379N/APOLS 379GOVT 379N/APOLS 379GOVT 379N/APOLS 379GOVT 379N/APOLS 379GOVT 379N/APOLS 379GOVT 379N/APOLS 379GOVT 379N/APOLS 370GOVT 379N/A			
POLS 325GOVT 325N/APOLS 330GOVT 330N/APOLS 331GOVT 331N/APOLS 335GOVT 335N/APOLS 343GOVT 344N/APOLS 344GOVT 345N/APOLS 345GOVT 350N/APOLS 350GOVT 353N/APOLS 354GOVT 353N/APOLS 354GOVT 354N/APOLS 360GOVT 350N/APOLS 361GOVT 360N/APOLS 362GOVT 361N/APOLS 366GOVT 367N/APOLS 367GOVT 367N/APOLS 367GOVT 370N/APOLS 370GOVT 371N/APOLS 373GOVT 375N/APOLS 375GOVT 375N/APOLS 375GOVT 375N/APOLS 375GOVT 379N/APOLS 379GOVT 379N/APOLS 379GOVT 379N/A			
POLS 330GOVT 330N/APOLS 331GOVT 331N/APOLS 335GOVT 335N/APOLS 343GOVT 343N/APOLS 344GOVT 344N/APOLS 345GOVT 345N/APOLS 346GOVT 350N/APOLS 353GOVT 353N/APOLS 354GOVT 354N/APOLS 355GOVT 354N/APOLS 356GOVT 360N/APOLS 360GOVT 361N/APOLS 362GOVT 362N/APOLS 366GOVT 376N/APOLS 370GOVT 371N/APOLS 371GOVT 373N/APOLS 375GOVT 375N/APOLS 378GOVT 378N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 379GOVT 379N/A			
POLS 331GOVT 331N/APOLS 335GOVT 335N/APOLS 343GOVT 343N/APOLS 344GOVT 344N/APOLS 345GOVT 345N/APOLS 346GOVT 350N/APOLS 350GOVT 351N/APOLS 354GOVT 354N/APOLS 354GOVT 354N/APOLS 354GOVT 354N/APOLS 354GOVT 360N/APOLS 360GOVT 361N/APOLS 362GOVT 366N/APOLS 366GOVT 367N/APOLS 370GOVT 370N/APOLS 371GOVT 371N/APOLS 373GOVT 375N/APOLS 378GOVT 378N/APOLS 378GOVT 378N/APOLS 378GOVT 378N/APOLS 379GOVT 378N/A			
POLS 335GOVT 335N/APOLS 343GOVT 343N/APOLS 344GOVT 344N/APOLS 345GOVT 345N/APOLS 348GOVT 350N/APOLS 350GOVT 353N/APOLS 354GOVT 353N/APOLS 350GOVT 360N/APOLS 360GOVT 360N/APOLS 361GOVT 362N/APOLS 362GOVT 362N/APOLS 366GOVT 366N/APOLS 367GOVT 367N/APOLS 370GOVT 370N/APOLS 371GOVT 371N/APOLS 375GOVT 375N/APOLS 375GOVT 375N/APOLS 375GOVT 378N/APOLS 375GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 379N/APOLS 378GOVT 378N/APOLS 379GOVT 379N/APOLS 379GOVT 379N/APOLS 379GOVT 379N/APOLS 379GOVT 379N/APOLS 379GOVT 379N/APOLS 379GOVT 379N/APOLS 380VGOVT 380VN/A			
POLS 343GOVT 343N/APOLS 344GOVT 344N/APOLS 345GOVT 345N/APOLS 348GOVT 350N/APOLS 350GOVT 353N/APOLS 353GOVT 354N/APOLS 354GOVT 360N/APOLS 360GOVT 361N/APOLS 362GOVT 362N/APOLS 366GOVT 367N/APOLS 367GOVT 367N/APOLS 366GOVT 370N/APOLS 370GOVT 371N/APOLS 372GOVT 372N/APOLS 375GOVT 375N/APOLS 376GOVT 378N/APOLS 379GOVT 379N/A			
POLS 344GOVT 344N/APOLS 345GOVT 345N/APOLS 348GOVT 348N/APOLS 350GOVT 350N/APOLS 353GOVT 353N/APOLS 354GOVT 354N/APOLS 360GOVT 360N/APOLS 361GOVT 361N/APOLS 362GOVT 362N/APOLS 366GOVT 367N/APOLS 367GOVT 370N/APOLS 370GOVT 371N/APOLS 372GOVT 372N/APOLS 375GOVT 375N/APOLS 378GOVT 378N/APOLS 378GOVT 378N/APOLS 379GOVT 378N/A			
POLS 345GOVT 345N/APOLS 348GOVT 348N/APOLS 350GOVT 350N/APOLS 353GOVT 353N/APOLS 354GOVT 354N/APOLS 360GOVT 360N/APOLS 361GOVT 362N/APOLS 366GOVT 366N/APOLS 367GOVT 367N/APOLS 370GOVT 370N/APOLS 371GOVT 371N/APOLS 372GOVT 372N/APOLS 375GOVT 375N/APOLS 378GOVT 378N/APOLS 379GOVT 379N/APOLS 379GOVT 379N/A			
POLS 348         GOVT 348         N/A           POLS 350         GOVT 350         N/A           POLS 353         GOVT 353         N/A           POLS 354         GOVT 354         N/A           POLS 360         GOVT 360         N/A           POLS 361         GOVT 361         N/A           POLS 362         GOVT 362         N/A           POLS 366         GOVT 366         N/A           POLS 367         GOVT 366         N/A           POLS 370         GOVT 370         N/A           POLS 371         GOVT 371         N/A           POLS 373         GOVT 373         N/A           POLS 375         GOVT 375         N/A           POLS 378         GOVT 379         N/A			
POLS 350GOVT 350N/APOLS 353GOVT 353N/APOLS 354GOVT 354N/APOLS 360GOVT 360N/APOLS 361GOVT 361N/APOLS 366GOVT 366N/APOLS 367GOVT 367N/APOLS 370GOVT 371N/APOLS 372GOVT 372N/APOLS 375GOVT 375N/APOLS 378GOVT 379N/APOLS 379GOVT 379N/A			
POLS 353GOVT 353N/APOLS 354GOVT 354N/APOLS 360GOVT 360N/APOLS 361GOVT 362N/APOLS 366GOVT 366N/APOLS 367GOVT 367N/APOLS 370GOVT 370N/APOLS 372GOVT 372N/APOLS 375GOVT 375N/APOLS 378GOVT 379N/APOLS 379GOVT 379N/A			
POLS 354GOVT 354N/APOLS 360GOVT 360N/APOLS 361GOVT 361N/APOLS 362GOVT 362N/APOLS 366GOVT 366N/APOLS 370GOVT 370N/APOLS 371GOVT 371N/APOLS 372GOVT 372N/APOLS 375GOVT 375N/APOLS 378GOVT 379N/APOLS 379GOVT 379N/A			
POLS 360GOVT 360N/APOLS 361GOVT 361N/APOLS 362GOVT 362N/APOLS 366GOVT 366N/APOLS 377GOVT 370N/APOLS 370GOVT 371N/APOLS 372GOVT 372N/APOLS 375GOVT 375N/APOLS 378GOVT 379N/APOLS 379GOVT 379N/A			
POLS 361GOVT 361N/APOLS 362GOVT 362N/APOLS 366GOVT 366N/APOLS 367GOVT 367N/APOLS 370GOVT 370N/APOLS 371GOVT 371N/APOLS 372GOVT 372N/APOLS 373GOVT 373N/APOLS 375GOVT 375N/APOLS 378GOVT 379N/APOLS 379GOVT 379N/A			
POLS 362GOVT 362N/APOLS 366GOVT 366N/APOLS 367GOVT 377N/APOLS 370GOVT 370N/APOLS 371GOVT 371N/APOLS 372GOVT 372N/APOLS 373GOVT 375N/APOLS 375GOVT 378N/APOLS 379GOVT 379N/APOLS 380VGOVT 380VN/A			
POLS 366GOVT 366N/APOLS 367GOVT 367N/APOLS 370GOVT 370N/APOLS 371GOVT 371N/APOLS 372GOVT 372N/APOLS 373GOVT 373N/APOLS 375GOVT 375N/APOLS 378GOVT 379N/APOLS 380VGOVT 380VN/A			
POLS 367GOVT 367N/APOLS 370GOVT 370N/APOLS 371GOVT 371N/APOLS 372GOVT 372N/APOLS 373GOVT 373N/APOLS 375GOVT 375N/APOLS 379GOVT 379N/APOLS 380VGOVT 380VN/A			
POLS 370GOVT 370N/APOLS 371GOVT 371N/APOLS 372GOVT 372N/APOLS 373GOVT 373N/APOLS 375GOVT 375N/APOLS 378GOVT 378N/APOLS 379GOVT 380VN/A			
POLS 371         GOVT 371         N/A           POLS 372         GOVT 372         N/A           POLS 373         GOVT 373         N/A           POLS 375         GOVT 375         N/A           POLS 378         GOVT 378         N/A           POLS 379         GOVT 379         N/A           POLS 380V         GOVT 380V         N/A			
POLS 372         GOVT 372         N/A           POLS 373         GOVT 373         N/A           POLS 375         GOVT 375         N/A           POLS 378         GOVT 378         N/A           POLS 379         GOVT 379         N/A           POLS 380V         N/A         MA			
POLS 373         GOVT 373         N/A           POLS 375         GOVT 375         N/A           POLS 378         GOVT 378         N/A           POLS 379         GOVT 379         N/A           POLS 380V         GOVT 380V         N/A			
POLS 375         GOVT 375         N/A           POLS 378         GOVT 378         N/A           POLS 379         GOVT 379         N/A           POLS 380V         GOVT 380V         N/A			
POLS 378         GOVT 378         N/A           POLS 379         GOVT 379         N/A           POLS 380V         GOVT 380V         N/A			
POLS 379         GOVT 379         N/A           POLS 380V         GOVT 380V         N/A			
POLS 380V GOVT 380V N/A			
POLS 382 GOVT 382 N/A			
	PULS 382	GUVT 382	N/A

POLS 383	GOVT 383	N/A
POLS 384	GOVT 384	N/A
POLS 385	GOVT 385	N/A
POLS 386	GOVT 386	N/A
POLS 387	GOVT 387	N/A
POLS 390	GOVT 390	N/A
POLS 391	GOVT 391	N/A
POLS 392	GOVT 392	N/A
POLS 394	GOVT 392	N/A
POLS 395	GOVT 395	N/A
POLS 396	GOVT 396	N/A
POLS 399	GOVT 399	N/A
POLS 405	GOVT 405	N/A
POLS 406	GOVT 405	N/A N/A
POLS 400 POLS 407	GOVT 400 GOVT 407	N/A N/A
POLS 410 POLS 411	GOVT 410 GOVT 411	N/A
POLS 411	GOVT 412	N/A
POLS 412 POLS 415	GOVT 412 GOVT 415	N/A N/A
POLS 468	GOVT 468	N/A
POLS 469	GOVT 469	N/A
POLS 474	GOVT 474	N/A
POLS 493	GOVT 493	N/A
POLS 502	GOVT 502	N/A
POLS 503	GOVT 503	N/A
POLS 505	GOVT 505	N/A
POLS 510	GOVT 510	N/A
POLS 517	GOVT 517	N/A
POLS 519	GOVT 519	N/A
POLS 522	GOVT 522	N/A
POLS 523	GOVT 523	N/A
POLS 527	GOVT 527	N/A
POLS 530	GOVT 530	N/A
POLS 535	GOVT 535	N/A
POLS 536	GOVT 536	N/A
POLS 537	GOVT 537	N/A
POLS 540	GOVT 540	N/A
POLS 541	GOVT 541	N/A
POLS 542	GOVT 542	N/A
POLS 543	GOVT 543	N/A
POLS 544	GOVT 544	N/A
POLS 547	GOVT 547	N/A
POLS 548	GOVT 548	N/A
POLS 549	GOVT 549	N/A
POLS 550	GOVT 550	N/A
POLS 560	GOVT 560	N/A
POLS 561	GOVT 561	N/A
POLS 563	GOVT 563	N/A
POLS 564	GOVT 564	N/A
POLS 569	GOVT 569	N/A
POLS 570	GOVT 570	N/A
POLS 574	GOVT 574	N/A

POLS 578	GOVT 578	N/A
POLS 578 POLS 579	GOVT 578 GOVT 579	
		N/A
POLS 580	GOVT 580	N/A
POLS 587	GOVT 587	N/A
POLS 590	GOVT 590	N/A
POLS 591	GOVT 591	N/A
POLS 593	GOVT 593	N/A
POLS 596	GOVT 596	N/A
POLS 598	GOVT 598	N/A
POLS 599	GOVT 599	N/A
PORT-PORTUGUESE		
PORT 1110	PORT 213	Common
PORT 1120	PORT 214	Common
PSYC-PSYCHOLOGY		
PSYC 1110G	PSY 201G	Common
PSYC 1120	PSY 211	Unique
PSYC 2221	PSY 266	Unique
PSYC 2230	PSY 290	Common
PSYC 2311	PSY 274	Unique
PSYC 301	PSY 301	N/A
PSYC 302	PSY 302	N/A
PSYC 310	PSY 310	N/A
PSYC 311	PSY 311	N/A
PSYC 315	PSY 315	N/A
PSYC 317	PSY 317	N/A
PSYC 320	PSY 320	N/A
PSYC 321	PSY 321	N/A
PSYC 324	PSY 324	N/A
PSYC 325	PSY 325	N/A
PSYC 330	PSY 330	N/A
PSYC 340	PSY 340	N/A
PSYC 342	PSY 342	N/A
PSYC 350	PSY 350	N/A
PSYC 351	PSY 351	N/A
PSYC 359	PSY 359	N/A
PSYC 370	PSY 370	N/A
PSYC 375	PSY 375	N/A
PSYC 376	PSY 376	N/A
PSYC 380	PSY 380	N/A
PSYC 383	PSY 383	N/A
PSYC 385	PSY 385	N/A
PSYC 400	PSY 400	N/A
PSYC 401	PSY 401	N/A
PSYC 402	PSY 402	N/A
PSYC 417V	PSY 417V	N/A
PSYC 430	PSY 430	N/A
PSYC 440	PSY 440	N/A
PSYC 442	PSY 442	N/A
PSYC 442 PSYC 445	PSY 445	N/A
PSYC 450	PSY 450	N/A
PSYC 450 PSYC 470	PSY 470	N/A N/A
PSYC 507	PSY 507	N/A N/A
1010001	101001	11/7

PSYC 508	PSY 508	N/A
PSYC 509	PSY 509	N/A
PSYC 510	PSY 510	N/A
PSYC 520	PSY 520	N/A
PSYC 522	PSY 522	N/A
PSYC 523	PSY 523	N/A
PSYC 524	PSY 524	N/A
PSYC 525	PSY 525	N/A N/A
PSYC 525	PSY 525	N/A N/A
PSYC 529		
	PSY 529	N/A
PSYC 530	PSY 530	N/A
PSYC 531	PSY 531	N/A
PSYC 540	PSY 540	N/A
PSYC 543	PSY 543	N/A
PSYC 547	PSY 547	N/A
PSYC 548	PSY 548	N/A
PSYC 550	PSY 550	N/A
PSYC 570	PSY 570	N/A
PSYC 590	PSY 590	N/A
PSYC 598	PSY 598	N/A
PSYC 599	PSY 599	N/A
PSYC 600	PSY 600	N/A
PSYC 698	PSY 698	N/A
PSYC 700	PSY 700	N/A
RGSC-RANGE SCIENCE		
RGSC 1110	RGSC 150	Unique
RGSC 2110	RGSC 294	Common
RGSC 2996	RGSC 250	Unique
SIGN-SIGN LANGUAGE		
SIGN 1110	C D 374	Common
SIGN 1120	C D 375	Common
SIGN 2110	C D 476	Common
SIGN 574	C S 574	N/A
SOCI-SOCIOLOGY		
SOCI 1110G	SOC 101G	Common
SOCI 2220	SOC 273	Common
SOCI 2230	SOC 263	Common
SOCI 2230	SOC 269	Common
SOCI 2240	SOC 258	Common
SOCI 2261	SOC 262	Unique
SOCI 2310G	SOC 201G	Common
SOCI 330V	SOC 330V	N/A
SOCI 336V	SOC 336V	N/A
SOCI 350	SOC 350	N/A
SOCI 351	SOC 351	N/A
SOCI 352	SOC 352	N/A
SOCI 353	SOC 353	N/A
SOCI 357	SOC 357	N/A
SOCI 359	SOC 359	N/A
SOCI 360V	SOC 360V	N/A
00010611/		N1/A
SOCI 361V	SOC 361V	N/A
SOCI 361V	SOC 361V SOC 362	N/A N/A

Jack BabBab BabNASOCI 371SOC 371N/ASOCI 374SOC 374N/ASOCI 375SOC 376N/ASOCI 376SOC 377N/ASOCI 374SOC 376N/ASOCI 379SOC 391N/ASOCI 391SOC 392N/ASOCI 392SOC 392N/ASOCI 393SOC 394N/ASOCI 393SOC 394N/ASOCI 394SOC 401N/ASOCI 401SOC 402N/ASOCI 403SOC 404N/ASOCI 449SOC 449N/ASOCI 449SOC 449N/ASOCI 449SOC 440N/ASOCI 440SOC 440N/ASOCI 445SOC 440N/ASOCI 445SOC 4464N/ASOCI 445SOC 4464N/ASOCI 447SOC 477N/ASOCI 447SOC 477N/ASOCI 447SOC 477N/ASOCI 448SOC 448N/ASOCI 449SOC 449N/ASOCI 449SOC 449N/ASOCI 449SOC 449N/ASOCI 441SOC 447N/ASOCI 442SOC 448N/ASOCI 444SOC 449N/ASOCI 445SOC 449N/ASOCI 446SOC 449N/ASOCI 447SOC 449N/ASOCI 449SOC 449N/ASOCI 449SOC 449N/ASOCI 449SOC 449N/ASOCI 449SOC 449 <t< th=""><th>SOCI 365</th><th>SOC 365</th><th>N/A</th></t<>	SOCI 365	SOC 365	N/A
SQCI 37AVSQC 374N/ASQCI 376VSQC 376VN/ASQCI 376VSQC 376VN/ASQCI 370SQC 391N/ASQCI 391SQC 392N/ASQCI 392SQC 393N/ASQCI 393SQC 393N/ASQCI 400SQC 401N/ASQCI 401SQC 401N/ASQCI 402SQC 402N/ASQCI 403SQC 403N/ASQCI 404SQC 404N/ASQCI 405SQC 407N/ASQCI 470SQC 473N/ASQCI 471SQC 473N/ASQCI 472SQC 473N/ASQCI 474SQC 489N/ASQCI 480SQC 481N/ASQCI 481SQC 482N/ASQCI 482SQC 482N/ASQCI 491SQC 491N/ASQCI 492SQC 492N/ASQCI 493SQC 493N/ASQCI 494SQC 495N/ASQCI 495SQC 495N/ASQCI 495SQC 495N/ASQCI 495SQC 495N/ASQCI 495SQC 495N/ASQCI 495SQC 495N/ASQCI 495SQC 495 <td></td> <td></td> <td></td>			
SOCI 375SOCI 375N.ASOCI 376VSOC 376VN.ASOCI 390SOC 391N.ASOCI 391SOC 392N.ASOCI 392SOC 393N.ASOCI 393SOC 393N.ASOCI 401SOC 401N.ASOCI 401SOC 401N.ASOCI 402SOC 403N.ASOCI 403SOC 403N.ASOCI 404SOC 404N.ASOCI 405SOC 404N.ASOCI 406SOC 404N.ASOCI 407SOC 404N.ASOCI 408SOC 404N.ASOCI 409SOC 404N.ASOCI 404SOC 404N.ASOCI 405SOC 404N.ASOCI 405SOC 404N.ASOCI 406SOC 404N.ASOCI 407SOC 471N.ASOCI 407SOC 472N.ASOCI 473SOC 473N.ASOCI 474SOC 474N.ASOCI 480SOC 480N.ASOCI 481SOC 481N.ASOCI 482SOC 482N.ASOCI 481SOC 483N.ASOCI 491SOC 591N.ASOCI 492SOC 591N.ASOCI 494SOC 591N.ASOCI 495SOC 591N.ASOCI 591SOC 591N.ASOCI 591SOC 591N.ASOCI 591SOC 591N.ASOCI 591SOC 591N.ASOCI 591SOC 591N.ASOCI 591SOC 591			
SOCI 376VSOCI 376VN.ASOCI 390SOC 390N/ASOCI 391SOC 392SOC 392SOCI 392SOC 392N/ASOCI 393SOCI 393N/ASOCI 401SOCI 401N/ASOCI 401SOC 401N/ASOCI 402SOC 402N/ASOCI 403SOC 403N/ASOCI 404SOC 404N/ASOCI 405SOC 404N/ASOCI 406SOC 404N/ASOCI 407SOC 404N/ASOCI 408SOC 404N/ASOCI 409SOC 404N/ASOCI 405SOC 405N/ASOCI 405SOC 405N/ASOCI 407SOC 470N/ASOCI 407SOC 471N/ASOCI 477SOC 471N/ASOCI 474SOC 472N/ASOCI 475SOC 473N/ASOCI 486SOC 480N/ASOCI 481SOC 481N/ASOCI 482SOC 482N/ASOCI 483SOC 486N/ASOCI 484SOC 481N/ASOCI 485SOC 482N/ASOCI 591N/ASOCI 592SOC 593N/ASOCI 593SOC 593N/ASOCI 594SOC 594N/ASOCI 595SOC 594N/ASOCI 595SOC 595N/ASOCI 595SOC 595N/ASOCI 595SOC 595N/ASOCI 595SOC 595N/ASOCI 595SOC 595N/A <td></td> <td></td> <td></td>			
SOCI 390SOCI 390NASOCI 391SOCI 391N/ASOCI 393SOCI 393N/ASOCI 393SOCI 393N/ASOCI 401SOCI 401N/ASOCI 401SOCI 401N/ASOCI 402SOCI 402N/ASOCI 403SOCI 403N/ASOCI 404SOCI 404N/ASOCI 448SOCI 448N/ASOCI 459SOCI 450N/ASOCI 450SOCI 460N/ASOCI 450SOCI 461N/ASOCI 450SOCI 462N/ASOCI 450SOCI 462N/ASOCI 450SOCI 463N/ASOCI 450SOCI 463N/ASOCI 470N/ASOCI 470SOCI 471SOCI 471N/ASOCI 472SOCI 472N/ASOCI 473SOCI 473N/ASOCI 474SOCI 471N/ASOCI 473SOCI 472N/ASOCI 474SOCI 473N/ASOCI 474SOCI 474N/ASOCI 474SOCI 474N/ASOCI 474SOCI 474N/ASOCI 475SOCI 473N/ASOCI 474SOCI 474N/ASOCI 475SOCI 475N/ASOCI 476SOCI 476N/ASOCI 477SOCI 477N/ASOCI 478SOCI 478N/ASOCI 479SOCI 478N/ASOCI 470SOCI 478N/ASOCI 471SOCI 478N/ASOCI 472SOCI 479N/A			
SQCI 391SQCI 391NASQCI 392SQCI 392N/ASQCI 393SQCI 393N/ASQCI 394/SQCI 394/N/ASQCI 401SQC 401N/ASQCI 402SQC 402N/ASQCI 403SQC 403N/ASQCI 404SQC 403N/ASQCI 405SQC 404N/ASQCI 404SQC 403N/ASQCI 405SQC 404N/ASQCI 405SQC 405N/ASQCI 405SQC 406N/ASQCI 405SQC 406N/ASQCI 405SQC 407N/ASQCI 407SQC 470N/ASQCI 470SQC 471N/ASQCI 474SQC 473N/ASQCI 474SQC 481N/ASQCI 481SQC 481N/ASQCI 482SQC 482N/ASQCI 484SQC 483N/ASQCI 484SQC 484N/ASQCI 484SQC 484N/ASQCI 484SQC 484N/ASQCI 484SQC 484N/ASQCI 484SQC 581N/ASQCI 591SQC 591N/ASQCI 592SQC 593N/ASQCI 594SQC 593N/ASQCI 594SQC 594N/ASQCI 594SQC 594N/ASQCI 594SQC 594N/ASQCI 595SQC 594N/ASQCI 594SQC 594N/ASQCI 595SQC 594N/ASQCI 594SQC 594N/ASQCI 595SQC 594 <td></td> <td></td> <td></td>			
SOCI 392N/ASOCI 393SOC 393N/ASOCI 394SOC 393N/ASOCI 401SOC 409N/ASOCI 402SOC 409N/ASOCI 430SOC 430N/ASOCI 448SOC 449N/ASOCI 449SOC 450N/ASOCI 449SOC 450N/ASOCI 450SOC 450N/ASOCI 450SOC 450N/ASOCI 450SOC 450N/ASOCI 451SOC 452N/ASOCI 452SOC 452N/ASOCI 453SOC 454N/ASOCI 454SOC 457N/ASOCI 457SOC 473N/ASOCI 473SOC 473N/ASOCI 474SOC 477N/ASOCI 480SOC 480N/ASOCI 481SOC 481N/ASOCI 482SOC 482N/ASOCI 484SOC 483N/ASOCI 485SOC 485N/ASOCI 486SOC 486N/ASOCI 501N/ASOCI 502SOC 503N/ASOCI 513SOC 551N/ASOCI 552SOC 552N/ASOCI 554SOC 553N/ASOCI 555N/ASOCI 556SOC 556N/ASOCI 557N/ASOCI 556SOC 556N/ASOCI 557SOC 557N/ASOCI 556SOC 556N/ASOCI 557SOC 577N/ASOCI 574N/ASOCI 574SOCSOCSOCI 574			
SOCI 393SOC 393N/ASOCI 394VSOC 394VN/ASOCI 401SOC 401N/ASOCI 409SOC 403N/ASOCI 430SOC 430N/ASOCI 449SOC 449N/ASOCI 459N/ASOCI 459N/ASOCI 450SOC 458VN/ASOCI 450SOC 460N/ASOCI 450SOC 460N/ASOCI 450SOC 460N/ASOCI 450SOC 470N/ASOCI 470SOC 477N/ASOCI 477SOC 477N/ASOCI 481SOC 482N/ASOCI 482SOC 482N/ASOCI 481SOC 481N/ASOCI 482SOC 482N/ASOCI 483SOC 481N/ASOCI 484SOC 482N/ASOCI 489SOC 482N/ASOCI 481SOC 481N/ASOCI 482SOC 482N/ASOCI 484SOC 501N/ASOCI 495SOC 503N/ASOCI 501SOC 503N/ASOCI 551SOC 551N/ASOCI 551SOC 553N/ASOCI 553SOC 553N/ASOCI 554SOC 555N/ASOCI 555SOC 556N/ASOCI 557SOC 574N/ASOCI 570SOC 575N/ASOCI 574SOC 575N/ASOCI 575SOC 575N/ASOCI 575SOC 575N/ASOCI 575SOC 575N/ASOCI 57			
SOCI 394VSOC 394VN/ASOCI 499SOC 409N/ASOCI 409SOC 409N/ASOCI 430SOC 430N/ASOCI 449SOC 449N/ASOCI 449SOC 449N/ASOCI 450SOC 450N/ASOCI 464SOC 460N/ASOCI 465VSOC 465VN/ASOCI 473SOC 474N/ASOCI 474SOC 474N/ASOCI 477SOC 477N/ASOCI 478SOC 474N/ASOCI 477SOC 477N/ASOCI 478SOC 474N/ASOCI 479SOC 474N/ASOCI 474SOC 474N/ASOCI 475SOC 474N/ASOCI 476SOC 480N/ASOCI 481SOC 481N/ASOCI 482SOC 482N/ASOCI 484SOC 489N/ASOCI 501SOC 509N/ASOCI 511SOC 509N/ASOCI 552SOC 553N/ASOCI 553SOC 553N/ASOCI 554SOC 553N/ASOCI 555SOC 555N/ASOCI 556SOC 555N/ASOCI 557SOC 557N/ASOCI 556SOC 557N/ASOCI 557SOC 557N/ASOCI 556SOC 557N/ASOCI 557SOC 577N/ASOCI 571SOC 575N/ASOCI 574SOC 575N/ASOCI 575SOC 575N/ASOCI 576SOC 575 <td></td> <td></td> <td></td>			
SOCI 401SOC 400N/ASOCI 409SOC 400N/ASOCI 430SOC 430N/ASOCI 448SOC 448N/ASOCI 448SOC 448N/ASOCI 448SOC 446N/ASOCI 450SOC 450N/ASOCI 460SOC 460N/ASOCI 461SOC 461N/ASOCI 462SOC 462N/ASOCI 473SOC 473N/ASOCI 474SOC 474N/ASOCI 473SOC 477N/ASOCI 474SOC 474N/ASOCI 473SOC 473N/ASOCI 474SOC 474N/ASOCI 475SOC 473N/ASOCI 481SOC 481N/ASOCI 482SOC 482N/ASOCI 484SOC 481N/ASOCI 485SOC 486N/ASOCI 486SOC 486N/ASOCI 487SOC 501N/ASOCI 501SOC 503N/ASOCI 502SOC 503N/ASOCI 549SOC 543N/ASOCI 551SOC 553N/ASOCI 552SOC 553N/ASOCI 553SOC 553N/ASOCI 554SOC 554N/ASOCI 555SOC 556N/ASOCI 557SOC 557N/ASOCI 557SOC 557N/ASOCI 557SOC 557N/ASOCI 557SOC 557N/ASOCI 557SOC 557N/ASOCI 557SOC 557N/ASOCI 557SOC 557 <td< td=""><td></td><td></td><td></td></td<>			
SOCI 449SOC 449NASOCI 443SOC 443N/ASOCI 444SOC 445N/ASOCI 445SOC 446N/ASOCI 455VSOC 456VN/ASOCI 460SOC 460N/ASOCI 461SOC 462N/ASOCI 462SOC 465VN/ASOCI 464SOC 464N/ASOCI 473SOC 473N/ASOCI 474SOC 474N/ASOCI 477SOC 473N/ASOCI 478SOC 474N/ASOCI 479SOC 473N/ASOCI 470SOC 473N/ASOCI 471SOC 473N/ASOCI 472SOC 473N/ASOCI 474SOC 480N/ASOCI 480SOC 481N/ASOCI 481SOC 482N/ASOCI 482SOC 482N/ASOCI 491SOC 491N/ASOCI 593SOC 599N/ASOCI 594SOC 599N/ASOCI 595SOC 599N/ASOCI 592SOC 591N/ASOCI 593SOC 593N/ASOCI 593SOC 593N/ASOCI 594SOC 594N/ASOCI 595SOC 595N/ASOCI 595SOC 595N/ASOCI 595SOC 595N/ASOCI 595SOC 595N/ASOCI 595SOC 595N/ASOCI 595SOC 595N/ASOCI 595SOC 596N/ASOCI 595SOC 597N/ASOCI 595SOC 596<			
SOCI 430SOC 430N/ASOCI 448SOC 449N/ASOCI 449SOC 449N/ASOCI 450SOC 456VN/ASOCI 450SOC 456VN/ASOCI 450SOC 457N/ASOCI 470SOC 470N/ASOCI 471SOC 471N/ASOCI 472SOC 472N/ASOCI 473SOC 473N/ASOCI 474SOC 474N/ASOCI 475SOC 472N/ASOCI 474SOC 473N/ASOCI 474SOC 474N/ASOCI 475SOC 472N/ASOCI 476SOC 480N/ASOCI 480SOC 481N/ASOCI 481SOC 482N/ASOCI 482SOC 486N/ASOCI 484SOC 509N/ASOCI 500SOC 509N/ASOCI 501SOC 509N/ASOCI 542SOC 543N/ASOCI 543SOC 553N/ASOCI 551SOC 553N/ASOCI 552SOC 553N/ASOCI 554SOC 555N/ASOCI 555SOC 556N/ASOCI 555SOC 556N/ASOCI 556SOC 556N/ASOCI 557N/ASOCI 557SOC 557N/A			
SOCI 448SOC 448N/ASOCI 458VN/ASOCI 458VN/ASOCI 460SOC 460N/ASOCI 460SOC 460N/ASOCI 460SOC 460N/ASOCI 460SOC 461N/ASOCI 467SOC 470N/ASOCI 470SOC 473N/ASOCI 471SOC 477N/ASOCI 472SOC 477N/ASOCI 473SOC 477N/ASOCI 474SOC 473N/ASOCI 475SOC 474N/ASOCI 482SOC 482N/ASOCI 482SOC 482N/ASOCI 482SOC 482N/ASOCI 484SOC 491N/ASOCI 501SOC 509N/ASOCI 505SOC 509N/ASOCI 505SOC 509N/ASOCI 531SOC 532N/ASOCI 552SOC 552N/ASOCI 553SOC 553N/ASOCI 554SOC 554N/ASOCI 555SOC 556N/ASOCI 556SOC 556N/ASOCI 557SOC 557N/ASOCI 556SOC 569N/ASOCI 557SOC 574N/ASOCI 557SOC 574N/ASOCI 574SOC 575N/ASOCI 574SOC 577N/A			
SOCI 449SOC 449N/ASOCI 460SOC 460N/ASOCI 464SOC 464N/ASOCI 465VSOC 465VN/ASOCI 470SOC 470N/ASOCI 471SOC 473N/ASOCI 473SOC 473N/ASOCI 474SOC 474N/ASOCI 475SOC 473N/ASOCI 476SOC 474N/ASOCI 477SOC 477N/ASOCI 478SOC 474N/ASOCI 479SOC 480N/ASOCI 480SOC 481N/ASOCI 481SOC 482N/ASOCI 485SOC 482N/ASOCI 486SOC 489N/ASOCI 495SOC 501N/ASOCI 501SOC 503N/ASOCI 530SOC 530N/ASOCI 548SOC 552N/ASOCI 552SOC 552N/ASOCI 553SOC 553N/ASOCI 554SOC 554N/ASOCI 555SOC 556N/ASOCI 556SOC 556N/ASOCI 557SOC 557N/ASOCI 556SOC 556N/ASOCI 557SOC 557N/ASOCI 557SOC 557N/ASOCI 557SOC 557N/ASOCI 557SOC 557N/ASOCI 557SOC 574N/ASOCI 557SOC 574N/ASOCI 574SOC 575N/ASOCI 574SOC 576N/ASOCI 574SOC 577N/ASOCI 574SOC 576<			
SOCI 458VSOC 458VN/ASOCI 460SOC 460N/ASOCI 461SOC 464N/ASOCI 462VSOC 470N/ASOCI 470SOC 470N/ASOCI 473SOC 473N/ASOCI 474SOC 477N/ASOCI 475SOC 477N/ASOCI 476SOC 477N/ASOCI 471SOC 477N/ASOCI 482SOC 482N/ASOCI 482SOC 482N/ASOCI 484SOC 486N/ASOCI 491SOC 491N/ASOCI 501SOC 509N/ASOCI 502SOC 509N/ASOCI 503SOC 509N/ASOCI 510SOC 511N/ASOCI 551SOC 552N/ASOCI 552SOC 553N/ASOCI 553SOC 553N/ASOCI 554SOC 556N/ASOCI 555SOC 556N/ASOCI 556SOC 556N/ASOCI 557SOC 567N/ASOCI 556SOC 562N/ASOCI 557SOC 563N/ASOCI 556SOC 565N/ASOCI 557SOC 566N/ASOCI 556SOC 567N/ASOCI 557SOC 574N/ASOCI 574SOC 575N/ASOCI 575SOC 575N/ASOCI 574SOC 575N/ASOCI 574SOC 575N/ASOCI 575SOC 575N/ASOCI 576SOC 576N/ASOCI 576SOC 576	SOCI 448	SOC 448	
SOC 460N/ASOC 464N/ASOC 465VN/ASOC 470N/ASOC 473SOC 473SOC 473N/ASOC 474N/ASOC 477N/ASOC 473SOC 473SOC 474N/ASOC 474N/ASOC 475N/ASOC 476N/ASOC 477N/ASOC 480SOC 481SOC 482N/ASOC 484SOC 482SOC 485N/ASOC 486SOC 486SOC 489N/ASOC 489SOC 481SOC 489SOC 481SOC 489SOC 481SOC 491N/ASOC 501SOC 501SOC 502N/ASOC 503N/ASOC 513SOC 520SOC 549N/ASOC 551SOC 551SOC 552SOC 552SOC 552SOC 553SOC 553N/ASOC 554SOC 554SOC 555N/ASOC 556N/ASOC 557N/ASOC 556N/ASOC 556N/ASOC 557N/ASOC 556N/ASOC 557N/ASOC 556N/ASOC 557N/ASOC 557	SOCI 449		N/A
SOCI 464SOC 464N/ASOCI 470SOC 470N/ASOCI 470SOC 473N/ASOCI 473SOC 473N/ASOCI 474SOC 474N/ASOCI 475SOC 476N/ASOCI 480SOC 480N/ASOCI 481SOC 482N/ASOCI 482SOC 482N/ASOCI 489SOC 486N/ASOCI 489SOC 486N/ASOCI 489SOC 486N/ASOCI 480SOC 486N/ASOCI 481SOC 501N/ASOCI 482SOC 502N/ASOCI 501SOC 501N/ASOCI 502SOC 509N/ASOCI 503SOC 509N/ASOCI 544SOC 548N/ASOCI 551SOC 552N/ASOCI 552SOC 552N/ASOCI 553SOC 553N/ASOCI 554SOC 554N/ASOCI 555SOC 555N/ASOCI 556SOC 566N/ASOCI 556SOC 567N/ASOCI 557SOC 557N/ASOCI 557SOC 557N/ASOCI 557SOC 557N/ASOCI 557SOC 557N/ASOCI 557SOC 575N/ASOCI 574SOC 575N/ASOCI 575SOC 575N/ASOCI 576SOC 575N/ASOCI 576SOC 576N/ASOCI 577SOC 577N/ASOCI 577SOC 577N/ASOCI 576SOC 576 <td< td=""><td>SOCI 458V</td><td>SOC 458V</td><td>N/A</td></td<>	SOCI 458V	SOC 458V	N/A
S0C 465VS0C 465VN/AS0C 470S0C 470N/AS0C 473N/AS0C 474N/AS0C 477S0C 477N/AS0C 480S0C 481N/AS0C 482S0C 482N/AS0C 483S0C 483N/AS0C 484S0C 484N/AS0C 485S0C 486N/AS0C 486S0C 489N/AS0C 491S0C 501N/AS0C 501S0C 503N/AS0C 503S0C 503N/AS0C 504S0C 504N/AS0C 505S0C 503N/AS0C 510S0C 514N/AS0C 551S0C 553N/AS0C 552N/AS0C 553S0C 553S0C 553N/AS0C 554S0C 554N/AS0C 555S0C 554N/AS0C 556S0C 556N/AS0C 556S0C 556N/AS0C 557S0C 556N/AS0C 556S0C 556N/AS0C 557S0C 556N/AS0C 556S0C 556N/AS0C 557S0C 557N/AS0C 557S0C 557N/AS0C 557S0C 576N/AS0C 575S0C 576N/AS0C 576S0C 576N/A<	SOCI 460	SOC 460	N/A
SOCI 470         SOC 470         N/A           SOCI 473         SOC 473         N/A           SOCI 474         SOC 477         N/A           SOCI 477         SOC 477         N/A           SOCI 480         SOC 480         N/A           SOCI 481         SOC 482         N/A           SOCI 482         SOC 482         N/A           SOCI 485         SOC 482         N/A           SOCI 489         SOC 499         N/A           SOCI 489         SOC 490         N/A           SOCI 489         SOC 490         N/A           SOCI 489         SOC 490         N/A           SOCI 491         SOC 490         N/A           SOCI 501         SOC 501         N/A           SOCI 503         SOC 503         N/A           SOCI 549         SOC 548         N/A           SOCI 551         N/A         SOCI 552           SOCI 552         SOC 553         N/A           SOCI 553         SOC 555         N/A           SOCI 554         SOC 555         N/A           SOCI 555         SOC 556         N/A           SOCI 556         SOC 557         N/A           SOCI 556	SOCI 464	SOC 464	N/A
SOCI 473         SOC 473         N/A           SOCI 474         SOC 474         N/A           SOCI 477         SOC 470         N/A           SOCI 480         N/A         SOCI 481         SOC 480           SOCI 481         SOC 482         N/A           SOCI 482         SOC 482         N/A           SOCI 482         SOC 482         N/A           SOCI 484         SOC 489         N/A           SOCI 491         SOC 496         N/A           SOCI 501         N/A         SOCI 501           SOCI 502         SOC 501         N/A           SOCI 503         SOC 503         N/A           SOCI 504         SOC 5049         N/A           SOCI 505         SOC 502         N/A           SOCI 551         SOC 552         N/A           SOCI 552         SOC 553         N/A           SOCI 553         SOC 553         N/A           SOCI 554         SOC 555         N/A           SOCI 555         SOC 564         N/A           SOCI 556         SOC 565         N/A           SOCI 557         SOC 565         N/A           SOCI 556         SOC 565         N/A	SOCI 465V	SOC 465V	N/A
SOCI 474         SOC 474         N/A           SOCI 477         SOC 477         N/A           SOCI 480         SOC 480         N/A           SOCI 480         SOC 481         N/A           SOCI 482         SOC 482         N/A           SOCI 482         SOC 482         N/A           SOCI 486         SOC 489         N/A           SOCI 491         N/A         SOCI 491           SOCI 501         SOC 509         N/A           SOCI 503         SOC 509         N/A           SOCI 530         SOC 530         N/A           SOCI 548         SOC 551         N/A           SOCI 552         SOC 553         N/A           SOCI 553         SOC 555         N/A           SOCI 552         SOC 556         N/A           SOCI 553         SOC 556         N/A           SOCI 551         SOC 556         N/A           SOCI 552         SOC 556         N/A           SOCI 551         SOC 556         N/A           SOCI 552         SOC 556         N/A           SOCI 551         SOC 556         N/A           SOCI 552         SOC 556         N/A           SOCI 556	SOCI 470	SOC 470	N/A
S0C1477         S0C 477         N/A           S0C1480         S0C 480         N/A           S0C1481         S0C 481         N/A           S0C1482         S0C 482         N/A           S0C1489         S0C 482         N/A           S0C1489         S0C 496         N/A           S0C1491         S0C 496         N/A           S0C1501         S0C 501         N/A           S0C1502         S0C 509         N/A           S0C1530         S0C 548         N/A           S0C1549         S0C 548         N/A           S0C1551         S0C 553         N/A           S0C1552         S0C 553         N/A           S0C1553         S0C 553         N/A           S0C1554         S0C 553         N/A           S0C1555         S0C 553         N/A           S0C1554         S0C 553         N/A           S0C1555         S0C 554         N/A           S0C1554         S0C 561         N/A           S0C1555         S0C 561         N/A           S0C1564         S0C 565         N/A           S0C1565         S0C 565         N/A           S0C1564         S0C 565	SOCI 473	SOC 473	N/A
SOCI 480         SOC 480         N/A           SOCI 481         SOC 481         N/A           SOCI 482         SOC 482         N/A           SOCI 484         SOC 486         N/A           SOCI 489         SOC 489         N/A           SOCI 491         SOC 491         N/A           SOCI 501         SOC 501         N/A           SOCI 503         SOC 509         N/A           SOCI 530         SOC 509         N/A           SOCI 548         SOC 509         N/A           SOCI 551         SOC 551         N/A           SOCI 552         SOC 552         N/A           SOCI 553         SOC 553         N/A           SOCI 554         SOC 555         N/A           SOCI 555         SOC 550         N/A           SOCI 555         SOC 550         N/A           SOCI 555         SOC 550         N/A           SOCI 551         SOC 560         N/A           SOCI 555         SOC 560         N/A           SOCI 561         SOC 560         N/A           SOCI 565         SOC 560         N/A           SOCI 565         SOC 560         N/A           SOCI 565	SOCI 474	SOC 474	N/A
SOCI 481         SOC 481         N/A           SOCI 482         SOC 482         N/A           SOCI 486         SOC 483         N/A           SOCI 489         SOC 483         N/A           SOCI 491         SOC 491         N/A           SOCI 501         SOC 501         N/A           SOCI 501         SOC 503         N/A           SOCI 503         SOC 503         N/A           SOCI 548         SOC 548         N/A           SOCI 549         SOC 548         N/A           SOCI 549         SOC 548         N/A           SOCI 549         SOC 548         N/A           SOCI 551         SOC 552         N/A           SOCI 552         SOC 553         N/A           SOCI 553         SOC 558         N/A           SOCI 554         SOC 556         N/A           SOCI 555         SOC 556         N/A           SOCI 561         SOC 564         N/A           SOCI 565         SOC 565         N/A           SOCI 566         SOC 565         N/A           SOCI 566         SOC 567         N/A           SOCI 567         SOC 567         N/A           SOCI 567	SOCI 477	SOC 477	N/A
SOCI 482         SOC 482         N/A           SOCI 486         SOC 486         N/A           SOCI 489         SOC 489         N/A           SOCI 491         SOC 491         N/A           SOCI 496         SOC 496         N/A           SOCI 501         SOC 501         N/A           SOCI 509         SOC 509         N/A           SOCI 530         SOC 548         N/A           SOCI 548         SOC 549         N/A           SOCI 551         SOC 552         N/A           SOCI 552         SOC 552         N/A           SOCI 553         SOC 552         N/A           SOCI 554         SOC 555         N/A           SOCI 555         SOC 556         N/A           SOCI 556         SOC 551         N/A           SOCI 557         SOC 558         N/A           SOCI 550         SOC 551         N/A           SOCI 564         SOC 565         N/A           SOCI 565         SOC 565         N/A           SOCI 565         SOC 565         N/A           SOCI 564         SOC 565         N/A           SOCI 565         SOC 565         N/A           SOCI 570	SOCI 480	SOC 480	N/A
SOCI 486         SOC 486         N/A           SOCI 489         SOC 489         N/A           SOCI 491         SOC 491         N/A           SOCI 496         SOC 496         N/A           SOCI 501         SOC 501         N/A           SOCI 503         SOC 503         N/A           SOCI 548         SOC 548         N/A           SOCI 549         SOC 549         N/A           SOCI 551         SOC 551         N/A           SOCI 552         SOC 552         N/A           SOCI 553         SOC 553         N/A           SOCI 554         SOC 555         N/A           SOCI 555         SOC 558         N/A           SOCI 556         SOC 559         N/A           SOCI 550         SOC 550         N/A           SOCI 551         SOC 555         N/A           SOCI 550         SOC 551         N/A           SOCI 551         SOC 555         N/A           SOCI 552         SOC 555         N/A           SOCI 554         SOC 555         N/A           SOCI 555         SOC 561         N/A           SOCI 556         SOC 565         N/A           SOCI 570	SOCI 481	SOC 481	N/A
SOCI 489         SOC 489         N/A           SOCI 491         SOC 491         N/A           SOCI 496         SOC 496         N/A           SOCI 501         SOC 501         N/A           SOCI 509         SOC 509         N/A           SOCI 509         SOC 509         N/A           SOCI 548         SOC 548         N/A           SOCI 551         SOC 551         N/A           SOCI 552         SOC 552         N/A           SOCI 553         SOC 552         N/A           SOCI 554         SOC 555         N/A           SOCI 555         SOC 552         N/A           SOCI 556         SOC 557         N/A           SOCI 558         SOC 558         N/A           SOCI 560         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 562         SOC 564         N/A           SOCI 564         SOC 565         N/A           SOCI 565         SOC 569         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 571         N/A           SOCI 572         N/A         SOCI 572           SOCI 572	SOCI 482	SOC 482	N/A
SOCI 489         SOC 489         N/A           SOCI 491         SOC 491         N/A           SOCI 496         SOC 496         N/A           SOCI 501         SOC 501         N/A           SOCI 509         SOC 509         N/A           SOCI 509         SOC 509         N/A           SOCI 548         SOC 548         N/A           SOCI 551         SOC 551         N/A           SOCI 552         SOC 552         N/A           SOCI 553         SOC 552         N/A           SOCI 554         SOC 555         N/A           SOCI 555         SOC 552         N/A           SOCI 556         SOC 557         N/A           SOCI 558         SOC 558         N/A           SOCI 560         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 562         SOC 564         N/A           SOCI 564         SOC 565         N/A           SOCI 565         SOC 569         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 571         N/A           SOCI 572         N/A         SOCI 572           SOCI 572	SOCI 486	SOC 486	N/A
SOCI 496         SOC 496         N/A           SOCI 501         SOC 501         N/A           SOCI 509         SOC 509         N/A           SOCI 530         SOC 530         N/A           SOCI 548         SOC 548         N/A           SOCI 551         SOC 551         N/A           SOCI 552         SOC 552         N/A           SOCI 553         SOC 553         N/A           SOCI 554         SOC 555         N/A           SOCI 555         SOC 558         N/A           SOCI 559         SOC 560         N/A           SOCI 550         SOC 561         N/A           SOCI 550         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 562         SOC 564         N/A           SOCI 565         SOC 569         N/A           SOCI 564         SOC 569         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 571         N/A           SOCI 572         SOC 574         N/A           SOCI 574         SOC 574         N/A           SOCI 575         SOC 575         SOC 574	SOCI 489	SOC 489	
SOCI 496         SOC 496         N/A           SOCI 501         SOC 501         N/A           SOCI 509         SOC 509         N/A           SOCI 530         SOC 530         N/A           SOCI 548         SOC 548         N/A           SOCI 551         SOC 551         N/A           SOCI 552         SOC 552         N/A           SOCI 553         SOC 553         N/A           SOCI 554         SOC 555         N/A           SOCI 555         SOC 558         N/A           SOCI 559         SOC 560         N/A           SOCI 550         SOC 561         N/A           SOCI 550         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 562         SOC 564         N/A           SOCI 565         SOC 569         N/A           SOCI 564         SOC 569         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 571         N/A           SOCI 572         SOC 574         N/A           SOCI 574         SOC 574         N/A           SOCI 575         SOC 575         SOC 574	SOCI 491	SOC 491	N/A
SOCI 501         SOC 501         N/A           SOCI 509         SOC 509         N/A           SOCI 530         SOC 530         N/A           SOCI 548         SOC 548         N/A           SOCI 549         SOC 549         N/A           SOCI 551         SOC 551         N/A           SOCI 552         SOC 552         N/A           SOCI 553         SOC 553         N/A           SOCI 554         SOC 555         N/A           SOCI 555         SOC 556         N/A           SOCI 556         SOC 557         N/A           SOCI 558         SOC 558         N/A           SOCI 550         SOC 550         N/A           SOCI 560         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 565         SOC 565         N/A           SOCI 566         SOC 569         N/A           SOCI 570         SOC 571         N/A           SOCI 572         SOC 572         N/A           SOCI 574         SOC 574         N/A           SOCI 575         SOC 575         N/A           SOCI 575         SOC 575         N/A			
SOCI 509         SOC 509         N/A           SOCI 530         SOC 530         N/A           SOCI 548         SOC 548         N/A           SOCI 549         SOC 549         N/A           SOCI 551         SOC 552         N/A           SOCI 552         SOC 552         N/A           SOCI 553         SOC 553         N/A           SOCI 554         SOC 558         N/A           SOCI 559         SOC 559         N/A           SOCI 560         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 562         SOC 565         N/A           SOCI 564         SOC 564         N/A           SOCI 565         SOC 565         N/A           SOCI 564         SOC 565         N/A           SOCI 565         SOC 569         N/A           SOCI 569         SOC 569         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 572         N/A           SOCI 572         SOC 574         N/A           SOCI 574         SOC 575         N/A           SOCI 575         SOC 575         N/A			
SOCI 530         SOC 530         N/A           SOCI 548         SOC 548         N/A           SOCI 549         SOC 549         N/A           SOCI 551         SOC 551         N/A           SOCI 552         SOC 552         N/A           SOCI 553         SOC 553         N/A           SOCI 554         SOC 553         N/A           SOCI 555         SOC 556         N/A           SOCI 558         SOC 559         N/A           SOCI 559         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 565         SOC 565         N/A           SOCI 564         SOC 565         N/A           SOCI 565         SOC 569         N/A           SOCI 564         SOC 570         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 572         N/A           SOCI 572         SOC 574         N/A           SOCI 574         SOC 575         N/A           SOCI 575         SOC 575         N/A			
SOCI 548         SOC 548         N/A           SOCI 549         SOC 549         N/A           SOCI 551         SOC 551         N/A           SOCI 552         SOC 552         N/A           SOCI 553         SOC 553         N/A           SOCI 558         SOC 558         N/A           SOCI 559         SOC 559         N/A           SOCI 560         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 564         SOC 565         N/A           SOCI 565         SOC 565         N/A           SOCI 564         SOC 565         N/A           SOCI 565         SOC 569         N/A           SOCI 569         SOC 569         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 572         N/A           SOCI 574         SOC 574         N/A           SOCI 575         SOC 575         N/A			
SOCI 549         SOC 549         N/A           SOCI 551         SOC 551         N/A           SOCI 552         SOC 552         N/A           SOCI 553         SOC 553         N/A           SOCI 558         SOC 559         N/A           SOCI 559         SOC 550         N/A           SOCI 560         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 564         SOC 565         N/A           SOCI 565         SOC 566         N/A           SOCI 564         SOC 565         N/A           SOCI 565         SOC 569         N/A           SOCI 560         SOC 570         N/A           SOCI 571         SOC 572         N/A           SOCI 572         SOC 574         N/A           SOCI 575         SOC 575         N/A			
SOCI 551         SOC 551         N/A           SOCI 552         SOC 552         N/A           SOCI 553         SOC 553         N/A           SOCI 558         SOC 558         N/A           SOCI 559         SOC 559         N/A           SOCI 560         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 564         SOC 564         N/A           SOCI 565         SOC 569         N/A           SOCI 564         SOC 569         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 571         N/A           SOCI 572         SOC 574         N/A           SOCI 575         SOC 575         N/A			
SOCI 552         SOC 552         N/A           SOCI 553         SOC 553         N/A           SOCI 558         SOC 558         N/A           SOCI 559         SOC 559         N/A           SOCI 560         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 564         SOC 564         N/A           SOCI 565         SOC 565         N/A           SOCI 569         SOC 569         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 572         N/A           SOCI 574         SOC 574         N/A           SOCI 575         SOC 575         N/A			
SOCI 553         SOC 553         N/A           SOCI 558         SOC 558         N/A           SOCI 559         SOC 559         N/A           SOCI 560         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 564         SOC 565         N/A           SOCI 565         SOC 565         N/A           SOCI 566         SOC 565         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 572         N/A           SOCI 572         SOC 574         N/A           SOCI 575         SOC 575         N/A			
SOCI 558         SOC 558         N/A           SOCI 559         SOC 559         N/A           SOCI 560         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 564         SOC 564         N/A           SOCI 565         SOC 565         N/A           SOCI 569         SOC 569         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 572         N/A           SOCI 574         SOC 574         N/A           SOCI 575         SOC 575         N/A           SOCI 577         SOC 577         N/A			
SOCI 559         SOC 559         N/A           SOCI 560         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 564         SOC 565         N/A           SOCI 565         SOC 565         N/A           SOCI 569         SOC 569         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 572         N/A           SOCI 574         SOC 575         N/A           SOCI 575         SOC 575         N/A			
SOCI 560         SOC 560         N/A           SOCI 561         SOC 561         N/A           SOCI 564         SOC 565         N/A           SOCI 565         SOC 565         N/A           SOCI 569         SOC 570         N/A           SOCI 571         SOC 571         N/A           SOCI 572         SOC 572         N/A           SOCI 575         SOC 575         N/A           SOCI 575         SOC 575         N/A			
SOCI 561         SOC 561         N/A           SOCI 564         SOC 564         N/A           SOCI 565         SOC 565         N/A           SOCI 569         SOC 569         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 571         N/A           SOCI 572         SOC 572         N/A           SOCI 574         SOC 575         N/A           SOCI 575         SOC 575         N/A			
SOCI 564         SOC 564         N/A           SOCI 565         SOC 565         N/A           SOCI 569         SOC 569         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 571         N/A           SOCI 572         SOC 572         N/A           SOCI 574         SOC 575         N/A           SOCI 575         SOC 575         N/A			
SOCI 565         SOC 565         N/A           SOCI 569         SOC 569         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 571         N/A           SOCI 572         SOC 572         N/A           SOCI 574         SOC 574         N/A           SOCI 575         SOC 575         N/A           SOCI 575         SOC 575         N/A			
SOCI 569         SOC 569         N/A           SOCI 570         SOC 570         N/A           SOCI 571         SOC 571         N/A           SOCI 572         SOC 572         N/A           SOCI 574         SOC 574         N/A           SOCI 575         SOC 575         N/A           SOCI 577         SOC 575         N/A			
SOCI 570         SOC 570         N/A           SOCI 571         SOC 571         N/A           SOCI 572         SOC 572         N/A           SOCI 574         SOC 574         N/A           SOCI 575         SOC 575         N/A           SOCI 577         SOC 577         N/A			
SOCI 571         SOC 571         N/A           SOCI 572         SOC 572         N/A           SOCI 574         SOC 574         N/A           SOCI 575         SOC 575         N/A           SOCI 577         SOC 577         N/A			
SOCI 572         SOC 572         N/A           SOCI 574         SOC 574         N/A           SOCI 575         SOC 575         N/A           SOCI 577         SOC 577         N/A			
SOCI 574         SOC 574         N/A           SOCI 575         SOC 575         N/A           SOCI 577         SOC 577         N/A			
SOCI 575         SOC 575         N/A           SOCI 577         SOC 577         N/A			
SOCI 577 SOC 577 N/A			
SOCI 578 SOC 578 N/A			
	SUCI 578	SUC 578	N/A

SOCI 579	SOC 579	N/A
SOCI 581	SOC 581	N/A
SOCI 582	SOC 582	N/A
SOCI 583	SOC 583	N/A
SOCI 586	SOC 586	Ν/Α
SOCI 587	SOC 587	N/A
SOCI 589	SOC 589	N/A
SOCI 596	SOC 596	N/A
SOCI 599	SOC 599	N/A
SOIL-SOIL		
SOIL 2110	SOIL 252	Common
SOIL 2110L	SOIL 252 L	Common
SOIL 2996	SOIL 200	Unique
SOWK-SOCIAL WORK		
SOWK 2110G	S WK 221G	Common
SOWK 2111	S WK 251	Unique
SOWK 300	S WK 300	N/A
SOWK 301	S WK 301	N/A
SOWK 309	S WK 309	N/A
SOWK 311	S WK 311	N/A
SOWK 312	S WK 312	N/A
SOWK 313	S WK 313	N/A
SOWK 315	S WK 315	N/A
SOWK 316	S WK 316	N/A
SOWK 331V	S WK 331V	N/A
SOWK 401	S WK 401	N/A
SOWK 403	S WK 403	N/A
SOWK 405	S WK 405	N/A
SOWK 412	S WK 412	N/A
SOWK 415	S WK 412	N/A
SOWK 416	S WK 416	N/A
SOWK 417	S WK 417	N/A
SOWK 417	S WK 418	N/A N/A
SOWK 418 SOWK 419		
	S WK 419	N/A
SOWK 443	S WK 443	N/A
SOWK 447	S WK 447	N/A
SOWK 449	S WK 449	N/A
SOWK 490	S WK 490	N/A
SOWK 497	S WK 497	N/A
SPAN-SPANISH		-
SPAN 1110	SPAN 111	Common
SPAN 1120	SPAN 112	Common
SPAN 1210	SPAN 113	Common
SPAN 1220	SPAN 213	Common
SPAN 2110	SPAN 211	Common
SPAN 2120	SPAN 212	Common
SPAN 2210	SPAN 214	Common
SPED-SPECIAL EDUCATION		
SPED 2120	SPED 210	Unique
SPED 2130	SPED 202	Unique
SPED 2996	SPED 201	Unique
SPHS-SPEECH & HEARING SCIENCE		

NYADescriptionDescriptionSPHS 301C 9301N/ASPHS 322C 932N/ASPHS 323C 932N/ASPHS 324C 932N/ASPHS 325C 932N/ASPHS 325C 932N/ASPHS 325C 932N/ASPHS 325C 932N/ASPHS 325C 9422N/ASPHS 422C 0 423N/ASPHS 424C 0 424N/ASPHS 425C 9501N/ASPHS 501C 9501N/ASPHS 502C 9502N/ASPHS 503C 9503N/ASPHS 504C 9504N/ASPHS 505C 9505N/ASPHS 506C 9505N/ASPHS 506C 9501N/ASPHS 507C 9502N/ASPHS 508C 9502N/ASPHS 509C 9503N/ASPHS 509C 9503N/ASPHS 501C 9503N/ASPHS 501C 9502N/ASPHS 501C 9502N/ASPHS 501C 9502N/ASPHS 501C 9503N/ASPHS 501C 9504N/ASPHS 501C 9543N/ASPHS 502 <th>SPHS 2110</th> <th>C D 221</th> <th>Common</th>	SPHS 2110	C D 221	Common
SPH5 322C 0 322NASPH5 323C 0 323NASPH5 326C 0 324NASPH5 326C 0 325NASPH5 326C 0 421NASPH5 326C 0 422NASPH5 421C 0 422NASPH5 423C 0 423NASPH5 424C 0 424NASPH5 425C 0 425NASPH5 426C 0 502NASPH5 427C 0 502NASPH5 503C 0 502NASPH5 503C 0 503NASPH5 503C 0 506NASPH5 503C 0 506NASPH5 506C 0 506NASPH5 507C 0 507NASPH5 508C 0 508NASPH5 509C 0 509NASPH5 509C 0 502NASPH5 509C 0 502NASPH5 509C 0 502NASPH5 503C 0 502NASPH5 523C 0 521NASPH5 523C 0 522NASPH5 523C 0 552NASPH5 541C 0 542NASPH5 542C 0 542NASPH5 543C 0 543NASPH5 544C 0 544NASPH5 545C 0 545NASPH5 547C 0 547NASPH5 547C 0 547NASPH5 547C 0 547NASPH5 547C 0 549NASPH5 547C 0 549NASPH5 549C 0 549NASPH5 559 <td< td=""><td></td><td></td><td></td></td<>			
SPH8 328C D 232N ASPH8 324C D 325N/ASPH8 325C D 325N/ASPH8 326C D 326N/ASPH8 421C D 421N/ASPH8 422C D 422N/ASPH8 422C D 424N/ASPH8 423C D 424N/ASPH8 424C D 424N/ASPH8 425C D 425N/ASPH8 426C D 501N/ASPH8 502C D 502N/ASPH8 503C D 504N/ASPH5 504C D 505N/ASPH5 505C D 506N/ASPH5 506C D 506N/ASPH5 507C D 507N/ASPH5 508C D 500N/ASPH5 509C D 501N/ASPH5 509C D 502N/ASPH5 509C D 502N/ASPH5 509C D 521N/ASPH5 509C D 522N/ASPH5 501C D 521N/ASPH5 505C D 522N/ASPH5 505C D 524N/ASPH5 505C D 542N/ASPH5 515C D 542N/ASPH5 514C D 542N/ASPH5 514C D 542N/ASPH5 515C D 542N/ASPH5 514C D 541N/ASPH5 514C D 542N/ASPH5 514C D 541N/ASPH5 515C D 542N/ASPH5 515C D 541N/ASPH5 515C D 541N/ASPH5 515C D 541 <t< td=""><td></td><td></td><td></td></t<>			
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SPHS 548C D 548N/ASPHS 583C D 583N/ASPHS 584C D 584N/ASPHS 585C D 585N/ASPHS 586C D 586N/ASPHS 587C D 587N/ASPHS 589C D 589N/ASPHS 590C D 590N/ASPHS 591C D 591N/ASPHS 540C D 599N/ASPHS 540C D 590N/ASPHS 591C D 591N/ASPHS 540C D 599N/ASPHS 540S P190N/ASPHS 540S P191UniqueSPHD 1110S P M 190UniqueSPMD 1120S P M 191UniqueSPMD 1190S P M 272UniqueSPMD 1191S P M 273UniqueSPMD 1300P P 185UniqueSPMD 1300S P M 250Unique			
SPHS 583C D 583N/ASPHS 584C D 584N/ASPHS 585C D 585N/ASPHS 586C D 586N/ASPHS 587C D 587N/ASPHS 589C D 589N/ASPHS 590C D 590N/ASPHS 591C D 591N/ASPHS 599C D 640N/ASPHS 590SP M 190UniqueSPMD 1110S P M 190UniqueSPMD 1120S P M 191UniqueSPMD 1190S P M 272UniqueSPMD 1195S P M 175UniqueSPMD 1300P N 195UniqueSPMD 1350P M 250Unique			
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SPHS 586C D 586N/ASPHS 587C D 587N/ASPHS 589C D 589N/ASPHS 590C D 590N/ASPHS 591C D 591N/ASPHS 640C D 640N/ASPMD SPORTS MEDICINEVSPMD 1110SP M 190UniqueSPMD 1120SP M 191UniqueSPMD 1190SP M 272UniqueSPMD 1195SP M 175UniqueSPMD 1310SP M 175UniqueSPMD 1350PE P 185UniqueSPMD 2130SP M 250Unique			
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SPHS 590C D 590N/ASPHS 591C D 591N/ASPHS 599C D 599N/ASPHS 640C D 640N/ASPMD-SPORTS MEDICINEUniqueSPMD 1110SP M 190UniqueSPMD 1120SP M 191UniqueSPMD 1195SP M 272UniqueSPMD 1310SP M 175UniqueSPMD 1350PE P 185UniqueSPMD 2130SP M 250Unique			
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SPMD 1190         SP M 272         Unique           SPMD 1195         SP M 273         Unique           SPMD 1310         SP M 175         Unique           SPMD 1350         PE P 185         Unique           SPMD 2130         SP M 250         Unique			
SPMD 1195         SP M 273         Unique           SPMD 1310         SP M 175         Unique           SPMD 1350         PE P 185         Unique           SPMD 2130         SP M 250         Unique			
SPMD 1310         SP M 175         Unique           SPMD 1350         PE P 185         Unique           SPMD 2130         SP M 250         Unique			
SPMD 1350         PE P 185         Unique           SPMD 2130         SP M 250         Unique			
SPMD 2130 SP M 250 Unique			
SPMD 2210 SP M 271 Unique			
	SPMD 2210	SP M 271	Unique

SPMD 2210L	SP M 271 L	Unique
SPMD 2250	PE P 208	Unique
SPMD 2310	SP M 200	Unique
SPMD 3010	SP M 310	N/A
SPMD 3050	SP M 375	N/A
SPMD 3090	SP M 372	N/A
SPMD 3093	SP M 373	N/A
SPMD 3093	PE P 323	N/A
SPMD 3120	PE P 363	N/A N/A
SPMD 3120	PE P 392	N/A N/A
SPMD 3130	PE P 394	N/A N/A
SPMD 3150 SPMD 3160	PE P 393	N/A
	PE P 315	N/A
SPMD 3210	SP M 371	N/A
SPMD 3210L	SP M 371 L	N/A
SPMD 3250	SP M 324	N/A
SPMD 3310	PE P 319	N/A
SPMD 3350	SP M 412	N/A
SPMD 3410	SP M 308	N/A
SPMD 3450	SP M 305	N/A
SPMD 3450L	SP M 305 L	N/A
SPMD 3550	SP M 304	N/A
SPMD 3610	SP M 303	N/A
SPMD 3650	SP M 341	N/A
SPMD 3710	SP M 342	N/A
SPMD 4010	SP M 410	N/A
SPMD 4015	SP M 415	N/A
SPMD 4020	SP M 420	N/A
SPMD 4025	SP M 411	N/A
SPMD 4030	SP M 425	N/A
SPMD 4090	SP M 422	N/A
SPMD 4093	SP M 423	N/A
SPMD 4095	SP M 424	N/A
SPMD 4098	SP M 498	N/A
SPMD 4110	PE P 455	N/A
SPMD 4130	PE P 466	N/A
SPMD 4210	SP M 451	N/A
SPMD 4250	SP M 460	N/A
SPMD 4250L	SP M 460 L	N/A
SPMD 4350	SP M 330	N/A
SPMD 4410	SP M 456	N/A
SPMD 4450	SP M 307	N/A
SPMD 4510	SP M 309	N/A
SPMD 4550	SP M 223	N/A
SPMD 4610	PE P 465	N/A
SPMD 4997	SP M 499	N/A
SPMD 4998	SP M 445	N/A
SPMD 5010	SP M 510	N/A
SPMD 5015	SP M 513	N/A
SPMD 5020	SP M 514	N/A
SPMD 5025	SP M 511	N/A
SPMD 5030	SP M 515	N/A

SPMD 5310	SP M 512	N/A
SPMD 5350	SP M 560	N/A
SPMD 5410	SP M 509	N/A
SPMD 5450	SP M 556	N/A
SPMD 5510	SP M 504	N/A
SPMD 5550	SP M 545	N/A
SPMD 6310	PE P 624	N/A
SPMD 6350	SP M 551	N/A
SPMD 6410	SP M 608	N/A
SPMD 6450	SP M 665	N/A
SPMD 6510	SP M 660	N/A
SPMD 6710	SP M 597	N/A
SPMD 6750	SP M 600	N/A
SPMD 6996	PE P 501	N/A
SPMD 7000	SP M 700	N/A
THEA-THEATRE		
THEA 1110G	THTR 101G	Common
THEA 1210G	THTR 105	Common
THEA 1221	THTR 110	Unique
THEA 1222	THTR 120	Unique
THEA 1223	THTR 130	Unique
THEA 1310	THTR 142	Common
THEA 1310L	THTR 142 L	Unique
THEA 1415	THTR 149	Unique
THEA 2221	THTR 210	Unique
THEA 2310	THTR 141	Common
THEA 2310L	THTR 141 L	Unique
THEA 2340	THTR 250	Unique
THEA 2415	THTR 249	Unique
THEA 2421	THTR 220	Unique
THEA 2993	THTR 200	Unique
THEA 2996	THTR 222	Unique
THEA 300	THTR 300	N/A
THEA 303	THTR 303	N/A
THEA 304	THTR 304	N/A
THEA 305	THTR 305	N/A
THEA 307V	THTR 307V	N/A
THEA 308	THTR 308	N/A
THEA 310	THTR 310	N/A
THEA 311	THTR 311	N/A
THEA 312	THTR 312	N/A
THEA 313	THTR 313	N/A
THEA 314	THTR 314	N/A
THEA 315	THTR 315	N/A
THEA 317	THTR 317	N/A
THEA 320	THTR 320	N/A
THEA 321V	THTR 321V	N/A
THEA 322	THTR 322	N/A
THEA 323	THTR 323	N/A
THEA 329	THTR 329	N/A
THEA 330	THTR 330	N/A
THEA 334	THTR 334	N/A

THEA 337	THTR 337	N/A
THEA 341	THTR 341	N/A
THEA 343	THTR 343	N/A
THEA 345	THTR 345	N/A
THEA 346	THTR 346	N/A
THEA 347	THTR 347	N/A
THEA 348	THTR 348	N/A
THEA 349	THTR 349	N/A
THEA 352	THTR 352	N/A
THEA 353	THTR 353	N/A
THEA 354	THTR 354	N/A
THEA 355	THTR 355	N/A
THEA 356	THTR 356	N/A
THEA 357	THTR 357	N/A
THEA 360	THTR 360	N/A
THEA 366	THTR 366	N/A
THEA 384	THTR 395	N/A
THEA 395	THTR 395	N/A
THEA 396	THTR 396	N/A
THEA 408	THTR 408	N/A
THEA 409	THTR 409	N/A
THEA 410	THTR 410	N/A
THEA 414	THTR 414	N/A
THEA 417	THTR 417	N/A
THEA 430	THTR 430	N/A
THEA 435	THTR 435	N/A
THEA 439	THTR 439	N/A
THEA 440	THTR 440	N/A
THEA 450	THTR 450	N/A
THEA 457	THTR 457	N/A
THEA 535	THTR 535	N/A

# **Degrees & Certificates**

### **Academic Programs**

The following degrees and certificates are offered at NMSU Alamogordo.

**Note:** The degree/certificate plans in this catalog are effective Summer, 2020 and are in effect through the spring semester 2028.

### **Associate Degree Programs**

- Allied Health (p. 88)
- <u>Arts</u> (p. 93)
- Criminal Justice (p. 103)
- Early Childhood (p. 105)
- <u>Education</u> (p. 107)
  - <u>Education Elementary Concentration</u> (p. 108)
  - Education Secondary Math Concentration (p. 110)
  - Education Secondary Science Concentration (p. 112)
- Fine Arts (p. 118)
- General Engineering (p. 120)
- Prebusiness (p. 129)

- <u>Science</u> (p. 133)
- Social Work (p. 135)

### **Associate of Applied Science Degree Programs**

- Automotive and Hybrid Technology (p. 95)
- Business Management (p. 97)
  - <u>Business Management Accounting/Bookkeeping Concentration</u> (p. 97)
  - <u>Business Management Administrative Support Concentration</u> (p. 98)
  - <u>Business Management General Management Concentration</u> (p. 99)
- Computer Science (p. 102)
- Engineering Technology (p. 115)
   Engineering Technology Biomedical Equipment Concentration (p. 117)
  - Engineering Technology Electronics Concentration (p. 116)
- Emergency Medical Services, Intermediate (p. 113)
- Graphic Design (p. 122)
- Information Technology (p. 123)
- Medical Assistant (p. 91)

- Paralegal Studies (p. 126)
- Renewable Energy Systems Technology (p. 130)

### **Certificate Programs**

- <u>Accounting/Bookkeeping</u> (p. 97)
- Advanced Renewable Energy Systems (p. 130)
- Automotive Diagnostic Specialist (p. 95)
- Electrocardiogram Technician (p. 91)
- Engine Performance and Transmission Specialist (p. 96)
- General Management (p. 97)
- Graphic Design (p. 122)
- Leadership Skills (p. 97)
- Legal Assistant (p. 126)
- Nursing Assistant (p. 92)
- Phlebotomist Technician (p. 92)
- <u>Photographic Technology</u> (p. 128)
- Photo Voltaic Entry Level (p. 130)
- Welding

### Online Degrees/Certificates (p. 125) Allied Health

The **Associate of Science Degree in Allied Health** (ASAH) prepares students by offering and providing two healthcare career pathways. Pathway one (Option 1) prepares students for a Nursing Assistant and a career as a Phlebotomist Technician or an Electrocardiogram Technician. Pathway two (Option 2) prepares students for entry into the NMSU School of Nursing (NMSU SON) 4-year Bachelor of Nursing program. The ASAH degree plan follows the New Mexico Board of Nursing Education Consortium (NMNEC) common curriculum. NMSU SON accepts a cohort of students each Fall semester. Upon successful completion of core degree requirements included in Option 1 (Healthcare Field) or Option 2 (BSN Program) courses, a ASAH degree can be awarded.

**Option 1 (Health Care Fields)** is designed for students interested in alternative healthcare career paths in the fields of Nursing Assistant and Phlebotomist Technician or Electrocardiogram Technician. Option 1 also provides an associate degree completion for individuals awaiting acceptance into a BSN level program and for 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 choosing to meet pre-requisites for application to the NMSU SON BSN program at the New Mexico State University – Alamogordo campus.

The **Associate of Applied Science Medical Assistant** (AASMA) prepares students to be workforce ready by offering and providing a health career pathway that prepares students to work as medical assistants in healthcare provider offices, hospitals, outpatient clinics and other healthcare facilities. The program of study includes knowledge, skills, and 332 hours of clinical practice in phlebotomy, electrocardiogram, medical office management, and medical assisting. Students successfully completing courses in phlebotomy, electrocardiogram, medical office management are qualified to take the National Healthcareer Association certification exam at the end of each course to earn a certification in each field.

The **San Juan College(SJC) Surgical Technology program** is a collaborative effort to offer the Surgical Technologist program of study

to students in Southern New Mexico. Prerequisite work for application to the SJC Surgical Technology program can be completed at the NMSU-A campus. After acceptance and admission to the SJC Surgical Technology program, courses will be completed online, in an NMSUA classroom, and at clinical sites located in southern New Mexico. A small amount of travel to SJC is required.

Allied Health - Associate of Science (p. 89)

Medical Assistant - Associate of Applied Science (p. 91)

Electrocardiogram Technician - Certificate of Achievement (p. 91)

Nursing Aide Theory & Lab - Certificate of Achievement (p. 92)

Phlebotomist Technician - Certificate of Achievement (p. 92)

San Juan Surgical Technology Program (p. 92)

Graduates of this program will:

#### **Allied Health**

- 1. Describe the role and responsibilities related to the health care professionals including Medical Assistant, Phlebotomist Technician, Electrocardiogram Technician, and Nursing Assistant.
- 2. Evaluate occupational exposures, environmental safety hazards, high-risk situations, and emergency responses related to health care professions.
- 3. Apply anatomy and physiology principles to patient care across the lifespan and in a variety of health care settings.
- Demonstrate soft skills related to assisting with patient assessment, screenings, and informed consent.
- Demonstrate professionalism when interacting with patient populations across the lifespan; including, patient education, office management, and emergency situations.
- 6. Explain legal and ethical considerations, including HIPAA, informed consent, and scope of practice related to health care settings.
- Demonstrate an understanding of health care professions and how their personal knowledge and skills will contribute to the health care field.

#### **Medical Assistant**

- 1. Describe the role and responsibilities related to the Medical Assistant profession.
- 2. Apply knowledge of health care systems, legal and ethical considerations, body systems, disease processes, and patient care to health care settings.
- 3. Demonstrate skills related to assisting with patient assessment in a variety of health care settings.
- 4. Demonstrate professionalism and soft skills when interacting with patient populations across the lifespan; including difficult conversations, patient education, and patient consent.
- 5. Practice collaboration with the health care team related to patient care.

#### **Career & Technology Division**

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

**Division Head:** 

**Cathy Aguilar-Morgan** 

Allied Health Director: Becky Ross email: <u>bross@nmsu.edu</u> Phone: <u>575.439.3873</u>

Administrative Assistant: Michelle Nelson

Office Location: Science CenterMap Icon

Phone: 575.439.3761

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

#### Website:

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

### **Allied Health - Associate of Science**

The **Associate of Science Degree in Allied Health** (ASAH) prepares students by offering and providing two healthcare career pathways. Pathway one (Option 1) prepares students for a Nursing Assistant and a career as a Phlebotomist Technician or an Electrocardiogram Technician. Pathway two (Option 2) prepares students for entry into the NMSU School of Nursing (NMSU SON) 4-year Bachelor of Nursing program. The ASAH degree plan follows the New Mexico Board of Nursing Education Consortium (NMNEC) common curriculum. NMSU SON accepts a cohort of students each Fall semester. Upon successful completion of core degree requirements included in Option 1 (Healthcare Field) or Option 2 (BSN Program) courses, a ASAH degree can be awarded.

**Option 1 (Health Care Fields)** is designed for students interested in alternative healthcare career paths in the fields of Nursing Assistant and Phlebotomist Technician or Electrocardiogram Technician. Option 1 also provides an associate degree completion for individuals awaiting acceptance into a BSN level program and for 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 choosing to meet pre-requisites for application to the NMSU SON BSN program at the New Mexico State University – Alamogordo campus.

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 Re	quirements	
Area I: Communications		
English Composition - Level 1		
ENGL 1110G	Composition I	4

English Composition -	Level 2	
ENGL 2210G	Professional & Technical Communication	3
or ENGL 2221G	Writing in the Humanities and Social Science	
Oral Communication		
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
Area II: Mathematics		
MATH 1220G	College Algebra <sup>1</sup>	3
Areas III/IV: Laborato	ry Science and Social/Behavioral Sciences	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	4
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	4
CEPY 1120G	Human Growth and Behavior	3
Area V: Humanities		
Select one course fro	om Area V: Humanities <sup>2</sup>	3
Area VI: Creative/Fine	Arts	
Select one course fro	om Area VI: Creative/Fine Arts <sup>2</sup>	3
General Education Ele	ctive	
PSYC 1110G	Introduction to Psychology	3
Core Degree Require	ments	
BIOL 2310 & 2310L	Microbiology and Microbiology Lab	4
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
BIOL 2225	Human Anatomy and Physiology II	4
MATH 1350G	Introduction to Statistics	3
Option Area		
Select Option 1 (Hea	Ith Care Fields) or Option 2 (BSN Program)	13-17
Total Credits		61-65

<sup>1</sup> MATH 1220G College Algebra is required for the degree but students may need to take prerequisites to enter the course.

<sup>2</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.

### **Option 1 - Health Care Fields**

Prefix	Title	Credits
NUTR 2110	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
NUTR 2110	Human Nutrition	3
NMNC 3110	Introduction to Nursing Concepts <sup>1</sup>	3
NMNC 3135	Principles of Nursing Practice <sup>1</sup>	4
NMNC 3120	Evidence-Based Practice <sup>1</sup>	3
Select one from the f	ollowing:	4-6
NURS 328	Human Pathophysiology Foundation for Nursing	

BIOL 2511	Human Pathophysiology
& BIOL 2512	and Human Pathophysiology I

**Total Credits** 

1

Open only to students admitted to the Nursing major.

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

17-19

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 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and	4
	Molecular Biology Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	4
ENGL 1110G	Composition I	4
PSYC 1110G	Introduction to Psychology	3
Select one course from	n Area V: Humanities <sup>1</sup>	3
	Credits	18
Spring		
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
CEPY 1120G	Human Growth and Behavior	3
ENGL 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science	3
NUTR 2110	Human Nutrition	3
MATH 1220G	College Algebra	3
	Credits	16
Second Year Fall		
BIOL 2310 & 2310L	Microbiology and Microbiology Lab	4
BIOL 2225	Human Anatomy and Physiology II	4
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
MATH 1350G	Introduction to Statistics	3
	Credits	14
Spring		
Select one course from	m Area VI: Creative/Fine Arts <sup>1</sup>	3
NA 101	Nursing Assistant Theory and Lab	6
NA 110 or NA 115	Electrocardiogram Technician Basic or Phlebotomist Technician	4-6
	Credits	13
	Total Credits	61

### 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	Title	Credits
First Year		
Fall		
BIOL 2110G	Principles of Biology: Cellular and Molecular	4
& BIOL 2110L	Biology	
	and Principles of Biology: Cellular and	
	Molecular Biology Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	4
ENGL 1110G	Composition I	4
PSYC 1110G	Introduction to Psychology	3
Select one course from	n Area V: Humanities <sup>1</sup>	3
	Credits	18
Spring		
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
CEPY 1120G	Human Growth and Behavior	3
ENGL 2210G	Professional & Technical Communication	3
or ENGL 2221G	or Writing in the Humanities and Social	
	Science	
NUTR 2110	Human Nutrition	3
MATH 1220G	College Algebra	3
	Credits	16
Second Year		
Fall		
BIOL 2310	Microbiology	4
& 2310L	and Microbiology Lab	
BIOL 2225	Human Anatomy and Physiology II	4
COMM 1130G	Public Speaking	3
or COMM 1115G	or Introduction to Communication	
MATH 1350G	Introduction to Statistics	3
	Credits	14
Spring		
Select one course from	n Area VI: Creative/Fine Arts <sup>1</sup>	3
NMNC 3110	Introduction to Nursing Concepts	3
NMNC 3135	Principles of Nursing Practice	4
NMNC 3120	Evidence-Based Practice	3
Select one from the fol	llowing:	4-6
NURS 328	Human Pathophysiology Foundation for Nursing	
BIOL 2511	Human Pathophysiology	
& BIOL 2512	and Human Pathophysiology I	
	Credits	17
	Total Credits	65

See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.

1

<sup>1</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.

### Electrocardiogram Technician -Certificate of Achievement

The Electrocardiogram Technician Certificate of Achievement prepares students for employment as an Electrocardiogram Technician and includes basic theory of the cardiovascular system, cardiac rhythm interpretation, 12 lead ECG lead placement, and ECG equipment trouble shooting. **The certificate requires successful completion of** NA 110 Electrocardiogram Technician Basic. Coursework includes an advanced skills laboratory for 'hands on' practice with ECG testing. Attendance to the class, lab, and clinical must be 100%. Clinical time consists of 40 hours in the clinical setting and is completed in addition to the time spent in class and lab. Successful clinical pass consists of 10 successful EKG readings (1 pediatric, adults, 2 stress tests). Successful coursework completion requires a grade of 'C' (grade score of 80%) or better to pass, and a grade of pass on all skills check-lists. Upon successful completion, a student has the opportunity to test for National Health career Certification as an EKG Technician.

#### **Course Description:**

## NA 110. Electrocardiogram Technician Basic 4 Credits (3+3P)

Prepares students for employment as an Electrocardiogram Technician. Includes basic theory of the cardiovascular system, cardiac rhythm interpretation, 12 lead ECG lead placement, and ECG equipment trouble shooting. The course includes an advanced skills laboratory for 'handson' practice and 16 hours of supervised clinical in the work environment assisting with ECG testing. Attendance is mandatory. Course requires a grade of 'C' or better to pass. Upon successful completion of course, student has the opportunity to test for National Healthcareer Certification. Restricted to Community Colleges campuses only. **Prerequisite(s):** BIOL 1130 OR BIOL 2210 & BIOL 2225.

Note: A Certificate of Achievement is a program of study less than 16 credits. The certificate provides employment related and/or career enhancing skills necessary to succeed in a job or chose field of study. Please see an advisor concerning financial aid eligibility for Certificates of Achievement.

### 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.

ł	Prefix	Title	Credits
(	General Education R	equirements	
	Select one course fro 12-14 credits. <sup>1, 2</sup>	m four of the following six content areas for a total of	12-14
This degree requires courses from Areas I, II, III, and IV; students do not need to take an additional courses to meet the General Education Requirements.			
	Area I: Communi	cations	
	ENGL 1110G	Composition I (Core Requirement)	

Area II: Mathematic	-	
MATH 1220G	College Algebra (Core Requirement) <sup>3</sup>	
Area III: Laboratory	Science	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) (Core Requirement)	
or CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
Area IV: Social/Beha	avioral Sciences	
CEPY 1120G	Human Growth and Behavior (Core Requirement)	
General Education Elect	ive	
PHLS 1110G	Personal Health & Wellness	3
Core Degree Requirem	ents	
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 2210	Human Anatomy and Physiology I for the Health Sciences	4
BIOL 2225	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

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

- <sup>2</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.
- <sup>3</sup> MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G 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.

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

Course First Year	Title	Credits
Fall		
AHS 280	Medical Office Administration & Management	4
CHEM 1120G or CHEM 1215G	Introduction to Chemistry Lecture and Laboratory (non majors) or General Chemistry I Lecture and Laboratory for STEM Majors	4
ENGL 1110G	Composition I	4
MATH 1220G	College Algebra <sup>1</sup>	3
Spring	Credits	15
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	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 2225	Human Anatomy and Physiology II	4
-	Credits	14
Spring		
AHS 115	Dietary Guidelines & Meal Planning	4
AHS 290	Clincial Skills & Concepts for Medical Assisting II	6
CEPY 1120G	Human Growth and Behavior	3
PHLS 1110G	Personal Health & Wellness	3
	Credits	16
	Total Credits	61

MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.

### Nurse Aide Theory & Lab - Certificate of Achievement

The Nursing Aide Theory & Lab Certificate of Achievement prepares students for employment as a nursing assistant/nurse aide and includes nurse aide skills with a bio-psychosocial-cultural approach to client care. **The certificate requires successful completion of** NA 101 Nursing Assistant Theory and Lab . Coursework includes 45 hours of nursing theory, 125 hours of 'hands-on' practice in the lab, and 24 hours of supervised clinical time in a long-term healthcare facility. Successful coursework completion requires a grade of 'C' (grade score of 80%) or better, a grade of pass on all skills checklists, a final exam grade of 80% or better, 80% average of clinical/lab, and completion of all assignments. Successful completion includes 100% attendance for class, lab, and clinical time. Upon successful completion of all coursework, a student has met all requirements to take the NACES certification examination.

#### **Course Description:**

#### 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).

Note: A Certificate of Achievement is a program of study less than 16 credits. The certificate provides employment related and/or career enhancing skills necessary to succeed in a job or chose field of study. Please see an advisor concerning financial aid eligibility for Certificates of Achievement.

### Phlebotomist Technician - Certificate of Achievement

The Certificate of Achievement in Phlebotomy prepares students for employment as a Phlebotomist Technician and includes skills with a bio-psychosocial-cultural approach to client care. The coursework includes class and lab practice prior to practice in the clinical setting consisting of phlebotomy, pre and post analytical considerations, safety and lab maintenance, basic point of care testing and the associated specimen testing. The certificate requires successful completion of NA 115 Phlebotomist Technician. Clinical requirements for successful completion of the course consists of 100 hours of "hands-on" practice, 100 successful venipunctures, 20 capillary punctures in a healthcare facility laboratory. In order to be eligible to participate in the clinical setting, students are required to successfully pass a background check through the New Mexico Department of Health Caregivers Criminal History Screening Act and be granted employment clearance prior to clinical assignment and participation. Successful coursework completion requires a grade of "C" (grade score of 80%) or better, a grade of pass on all skills checklists, a final exam grade of 84% or better, 80% average of clinical/lab, and completion of all assignments. Successful completion includes 100% attendance for class, lab, and clinical time. Upon successful completion of all coursework, a student has met all requirements for eligibility to test through the National Healthcareer Association (NHA) for certification as a Phlebotomist Technician

#### **Course Description:**

#### 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.

Note: A Certificate of Achievement is a program of study less than 16 credits. The certificate provides employment related and/or career enhancing skills necessary to succeed in a job or chose field of study. Please see an advisor concerning financial aid eligibility for Certificates of Achievement.

### 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 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 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	4
BIOL 2310 & 2310L	Microbiology and Microbiology Lab	4
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
BIOL 2225	Human Anatomy and Physiology II	4
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	4
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
ENGL 1110G	Composition I	4
ENGL 2210G	Professional & Technical Communication	3
or ENGL 2221G	Writing in the Humanities and Social Science	
OEEM 101	CPR for the Health Care Professional	1
PSYC 1110G	Introduction to Psychology	3
Choose one from the	following:	3
MATH 1215	Intermediate Algebra	
MATH 1220G	College Algebra	
AHS 116	Math for Health Occupations	
Total Credits		40

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	Title	Credits
First Year		
Spring		
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	4
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	4
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
ENGL 1110G	Composition I	4
	Credits	15
Second Year		
Fall		
BIOL 2310 & 2310L	Microbiology and Microbiology Lab	4
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
ENGL 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science	3
PSYC 1110G	Introduction to Psychology	3
	Credits	14

Spring		
AHS 120	Medical Terminology	3
BIOL 2225	Human Anatomy and Physiology II	4
OEEM 101	CPR for the Health Care Professional	1
Choose one from the following:		3
MATH 1215	Intermediate Algebra	
MATH 1220G	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.

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. 94)

#### Graduates of this program will:

- 1. Analyze data and arguments from multiple perspectives as part of critical thinking skills.
- 2. Demonstrate ability to speak effectively in front of groups.
- 3. Use appropriate technology for research, including basic laboratory equipment and including computers with current industry-standard productivity software such as the Microsoft Office Suite platform.
- 4. Competently perform computations and communicate results in written and spoken forms.
- 5. Articulate and apply the scientific method.
- 6. Express an awareness of current ethical and diversity issues.

#### 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.

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#### 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 Requirements		
Area I: Communication	s	
English Composition - I	Level 1	
ENGL 1110G	Composition I	4
English Composition - I	Level 2	
ENGL 2210G	Professional & Technical Communication	3
or ENGL 2221G	Writing in the Humanities and Social Science	
Oral Communication		
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
Area II: Mathematics		
Select one course from	m Area II: Mathematics <sup>1, 2, 3</sup>	3-4
Areas III/IV: Laboratory	Science and Social/Behavioral Sciences	10-11
Select one course	from Area III: Laboratory Science (4 credits) <sup>1</sup>	
Select one course credits) <sup>1</sup>	from Area IV: Social/Behavioral Sciences (3	
Select one course	from either Area III or Area IV. (3-4 credits) <sup>1</sup>	
Area V: Humanities		
Select one course from	m Area V: Humanities <sup>1</sup>	3
Area VI: Creative/Fine	Arts	
Select one course from	m Area VI: Creative/Fine Arts <sup>1</sup>	3
General Education Elec	tive	
Select one course from	m any General Education area. <sup>1</sup>	3-4
Core Degree Requiren	nents	
FYEX 1110	First-year Seminar	1
BCIS 1110	Introduction to Information Systems	3
or OECS 105	Introduction to Information Technology	
Electives to bring total credits to 60. <sup>5</sup>		22-24
Recommended Second Language Elective		
Select any 1110-11 campuses. <sup>4</sup>	20 Second Language sequence offered at NMSU	
Total Credits		60

- <sup>1</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.
- <sup>2</sup> Student's subsequent transfer degree major should guide the selection of the math course.
- <sup>3</sup> A Mathematics course is required for the degree but students may need to take prerequisites first.
- <sup>4</sup> 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 <u>College of Arts and Sciences</u> section of the NMSU catalog.
- <sup>5</sup> 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

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		
FYEX 1110	First-year Seminar	1
BCIS 1110 or OECS 105	Introduction to Information Systems or Introduction to Information Technology	3
ENGL 1110G	Composition I	4
Area V: Humanities Co	burse <sup>1</sup>	3
Recommended Secor	nd Language Elective <sup>2</sup>	4
	Credits	15
Spring		
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
ENGL 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science	3
Area II: Mathematics	Course <sup>1</sup>	3
Area IV: Social/Behav	ioral Science Course <sup>1</sup>	3
Recommended Secor	nd Language Elective <sup>2</sup>	4
	Credits	16
Second Year		
Fall		
Area III: Laboratory So	cience Course <sup>1</sup>	4
Area VI: Creative/Fine	Arts Course <sup>1</sup>	3
Elective <sup>3</sup>		3
Elective <sup>3</sup>		3
Elective <sup>3</sup>		3
	Credits	16
Spring		

3-4

General Education Elective (choose from any area) <sup>1</sup>

Either an Area III: Labortory Science or Area IV: Social/Behavioral Sciences Course <sup>1</sup>	
Elective <sup>3</sup>	3
Elective <sup>3</sup>	3
Credits	13
Total Credits	60

- <sup>1</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.
- <sup>2</sup> 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 <u>College of Arts and Sciences</u> section of the NMSU catalog.
- <sup>3</sup> 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. 95)

Automotive Diagnostic Specialist - Certificate (p. 96)

Engine Performance and Transmission Specialist - Certificate (p. 96)

#### Graduates of this program will:

- 1. Communicate clearly and accurately, verbally and written, information about automotive technology.
- 2. Complete the ASE student certification exam and perform the handson diagnostic test for engine repair.
- 3. Complete the ASE student certification exam and perform the handson diagnostic test and repair for engine performance.
- Complete the ASE student certification exam and perform the handson diagnostic test and repair for automotive transmission/transaxles.
- 5. Complete the ASE student certification exam and perform the handson diagnostic test and repair for manual transmission/transaxles.
- Complete the ASE student certification exam and perform the handson diagnostic test and repair for brakes.
- 7. Complete the ASE student certification exam and perform the handson diagnostic test and repair for steering and suspension.
- 8. Complete the ASE student certification exam and perform the handson diagnostic test and repair for electricity and electronics.
- 9. Complete the ASE student certification exam and perform the handson diagnostic test and repair for heating and air conditioning.

**Career & Technology Division** 

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

Division Head: Cathy Aguilar-Morgan

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#### 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
<b>General Education Req</b>	uirements	
Select one course from a 12-14 credits. <sup>1, 2</sup>	four of the following six content areas for a total of	12-14
5 1	ourses from Areas I and II; students must select emaining areas to complete General Education	
Area I: Communicat	ions	
COMM 1130G	Public Speaking (Core Requirement)	
or COMM 1115G	Introduction to Communication	
Area II: Mathematic	s	
MATH 1220G	College Algebra (Core Requirement)	
or MATH 1130G	Survey of Mathematics	
Area III: Laboratory	Science	
Area IV: Social/Beha	avioral Sciences	
Area V: Humanities		
Area VI: Creative/Fi	ne Arts	
General Education Elect	ive	
Select one course from	n any General Education area. <sup>2</sup>	3-4
Core Degree Requirem	ents	
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

**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. 9) of the catalog for a full list of courses.
- 3 MATH 1220G College Algebra or MATH 1130G Survey of Mathematics 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 AUTO 114	Automotive Electricity and Electronics PT I	4
	Automotive Electricity and Electronics PT II	-
AUTO 115	Automotive Engine Repair	5
MATH 1220G or MATH 1130G	College Algebra or Survey of Mathematics	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	Introduction to Alternative Fueled Vehicles	3
or AUTO 209	or Hybrid Vehicle Service Techniques	
Select one course from	n Area III, IV, V, or VI (an area not already chosen)	3-4
Select one course from	n any General Education area. <sup>1</sup>	3-4
	Credits	17
Spring		
AUTO 205	Manual Drive Train and Axles	4
AUTO 206	Automatic Transmissions	5
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3

Select one course from Area III, IV, V, or VI (an area not already chosen)	3-4
Credits	15
Total Credits	63

See the General Education Section (p. 9) 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.

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

### **Total Credits Required for Certificate: 25**

Prefix	Title	Credits
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
Total Credits		25

#### Total Credits

1

### 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.

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

Course First Year Fall	Title	Credits
AUTO 113	Automotive Electricity and Electronics PT I	4
AUTO 114	Automotive Electricity and Electronics PT II $^{ m 1}$	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.

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 <sup>1</sup>	3
or AUTO 209	Hybrid Vehicle Service Techniques	
Total Credits		20

Total Credits

<sup>1</sup> 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.

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

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

<sup>1</sup> 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 (Accounting/Bookkeeping) - Associate of Applied Science (p. 97)

Business Management (General Management) - Associate of Applied Science (p. 99)

Business Management (Administrative Support) - Associate of Applied Science (p. 98)

Accounting/Bookkeeping - Certificate (p. 100)

General Management - Certificate (p. 101)

Leadership Skills - Certificate (p. 101)

#### Graduates of this program will:

- 1. Communicate effectively and professionally, both orally and in writing.
- 2. Evaluate legal and ethical principles in business and apply them to organizational decision making in a socially responsible manner.
- 3. Explain relevant theories and principles associated within the business environment.
- Explain the principal concepts, theories, and practices in the functional areas of business, including accounting, marketing, finance, economics, and management.
- 5. Analyze information using critical thinking and decision-making skills to make informed business decisions.
- 6. Utilize business computer applications to produce business documents and for quantitative business analysis.
- 7. Apply your knowledge, skills, and abilities to a work environment.

#### **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/

### Business Management (Accounting/ Bookkeeping) - Associate of Applied Science

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 Educat	ion Requirements		
Select one cours 12-14 credits. <sup>1,</sup>		owing six content areas for a total of	12-14

This degree requires courses from Areas I and IV; students must select two other courses from the remaining areas to complete General

Education requirem	ents.	
Area I: Communi	cations	
ENGL 1110G	Composition I (Core Requirement)	
Area II: Mathema	atics	
Area III: Laborato	bry Science	
Area IV: Social/B	ehavioral Sciences	
Choose one from	n the following (Core Requirement):	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
Area V: Humaniti	es	
Area VI: Creative	/Fine arts	
General Education El	ective	
ENGL 2210G	Professional & Technical Communication	3
Core Degree Require	ements	
BCIS 1110	Introduction to Information Systems	3
BMGT 205	Customer Service in Business	3
BMGT 216	Business Math	3
BMGT 240	Human Relations	3
BUSA 1110	Intro to Business	3
MGMT 2110	Principles of Management	3
OATS 213	Word Processing I	3
OECS 215	Spreadsheet Applications	3
Accounting/Bookke	eping Concentration Courses	
ACCT 2110	Principles of Accounting I	3
ACCT 2120	Principles of Accounting II	3
BMGT 208	Business Ethics	3
BLAW 2110	Business Law I	3
BMGT 221	Internship I	2
OATS 140	Payroll Accounting	3
OATS 205	Accounting Software 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. 9) of the catalog for a full list of courses.

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

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

Course	Title	Credits
First Year		
Fall		
BCIS 1110	Introduction to Information Systems	3
ENGL 1110G	Composition I	4
MGMT 2110	Principles of Management	3
Select one course from	n Area II, III, V, or VI (an area not already chosen)	3-4

Choose one from the	following:	3
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
	Credits	16
Spring		
ACCT 2110	Principles of Accounting I	3
BMGT 216	Business Math	3
BUSA 1110	Intro to Business	3
ENGL 2210G	Professional & Technical Communication	3
OATS 213	Word Processing I	3
	Credits	15
Second Year		
Fall		
ACCT 2120	Principles of Accounting II	3
BMGT 205	Customer Service in Business	3
BMGT 208	Business Ethics	3
OATS 205	Accounting Software I	3
Select one course fro	m Area II, III, V, or VI (an area not already chosen)	3-4
	Credits	15
Spring		
BLAW 2110	Business Law I	3
BMGT 221	Internship I	2
BMGT 240	Human Relations	3
OATS 140	Payroll Accounting	3
OECS 215	Spreadsheet Applications	3
	Credits	14
	Total Credits	60
1 See the Conora	Education Section (n. 9) of the catalog for a	full list

See the General Education Section (p. 9) of the catalog for a full list of courses.

### **Business Management** (Administrative Support) - Associate of Applied Science

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 Educatio	n Requirements	
Select one course 12-14 credits. <sup>1, 2</sup>	from four of the following six content areas for a total of	12-14
5 1	ires courses from Areas I and IV; students must select s from the remaining areas to complete General ements.	
Area I: Comm	unications	
ENGL 1110G	Composition I (Core Requirement)	
Area II: Mathe	ematics	
Area III: Labor	ratory Science	

Area IV: Social/I	Behavioral Sciences	
Choose one from	m the following (Core Requirement):	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
Area V: Humanit	ties	
Area VI: Creative	e/Fine Arts	
General Education E	Elective	
ENGL 2210G	Professional & Technical Communication	3
Core Degree Requi	rements	
BCIS 1110	Introduction to Information Systems	3
BMGT 205	Customer Service in Business	3
BMGT 216	Business Math	3
BMGT 240	Human Relations	3
BUSA 1110	Intro to Business	3
MGMT 2110	Principles of Management	3
OATS 213	Word Processing I	3
OECS 215	Spreadsheet Applications	3
Administrative Sup	port Concentration Courses	
ACCT 200	A Survey of Accounting	3
OATS 101	Keyboarding Basics	3
OATS 105	Business English	3
OATS 110	Records Management	3
OATS 202	Keyboarding Document Production	3
OATS 220	Internship in Business Office Technology	2
OECS 280	Desktop Publishing I	3
Total Credits		60

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

<sup>2</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.

### A Suggested Plan of Study - Business Management, Administrative Support 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.

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

Course	Title	Credits
First Year		
Fall		
BCIS 1110	Introduction to Information Systems	3
ENGL 1110G	Composition I	4
MGMT 2110	Principles of Management	3
OATS 101	Keyboarding Basics	3
OATS 105	Business English	3
	Credits	16
Spring		
ACCT 200	A Survey of Accounting	3
BMGT 216	Business Math	3
BUSA 1110	Intro to Business	3
ENGL 2210G	Professional & Technical Communication	3

OATS 213	Word Processing I	3
	Credits	15
Second Year		
Fall		
BMGT 205	Customer Service in Business	3
OATS 202	Keyboarding Document Production	3
Choose one from th	e following:	3
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
Select one course f	rom Area II, III, V, or VI (an area not already chosen)	3-4
Select one course f	rom Area II, III, V, or VI (an area not already chosen)	3-4
	Credits	15
Spring		
BMGT 240	Human Relations	3
OATS 110	Records Management	3
OATS 220	Internship in Business Office Technology	2
OECS 215	Spreadsheet Applications	3
OECS 280	Desktop Publishing I	3
	Credits	14
	Total Credits	60

<sup>1</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.

### **Business Management (General Management) - Associate of Applied Science**

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	n Requirements	
Select one course 12-14 credits. <sup>1, 2</sup>	from four of the following six content areas for a total of	12-14
5 1	res courses from Areas I and IV; students must select s from the remaining areas to complete General ements.	
Area I: Commu	unications	
ENGL 1110G	Composition I (Core Requirement)	
Area II: Mather	matics	
Area III: Labora	atory Science	
Area IV: Social	/Behavioral Sciences	
Choose one fro	om the following (Core Requirement):	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
Area V: Humar	nities	

Core Degree RequirementsBCIS 1110Introduction to Information Systems3BMGT 205Customer Service in Business3BMGT 216Business Math3BMGT 240Human Relations3BUSA 1110Intro to Business3MGMT 2110Principles of Management3OATS 213Word Processing I3OECS 215Spreadsheet Applications3BFIN 2110Principles of Accounting I3BEIN 2110Introduction to Finance3BLAW 2110Business Law I3BMGT 221Internship I2BMGT 280Introduction to Human Resources3ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3			
ENGL 2210GProfessional & Technical Communication3Core Degree RequirementsBCIS 1110Introduction to Information Systems3BMGT 205Customer Service in Business3BMGT 216Business Math3BMGT 240Human Relations3BUSA 1110Intro to Business3BMGT 2110Principles of Management3OATS 213Word Processing I3OECS 215Spreadsheet Applications3BFIN 2110Introduction to Finance3BLAW 2110Business Law I3BMGT 221Internship I2BMGT 280Introduction to Human Resources3ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3	Area VI: Creative	e/Fine Arts	
Core Degree RequirementsBCIS 1110Introduction to Information Systems3BMGT 205Customer Service in Business3BMGT 216Business Math3BMGT 240Human Relations3BUSA 1110Intro to Business3MGMT 2110Principles of Management3OATS 213Word Processing I3OECS 215Spreadsheet Applications3BFIN 2110Principles of Accounting I3BFIN 2110Introduction to Finance3BLAW 2110Business Law I3BMGT 221Internship I2BMGT 280Introduction to Human Resources3ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3	General Education E	lective	
BCIS 1110Introduction to Information Systems3BGIS 1110Introduction to Information Systems3BMGT 205Customer Service in Business3BMGT 216Business Math3BMGT 240Human Relations3BUSA 1110Intro to Business3MGMT 2110Principles of Management3OATS 213Word Processing I3OECS 215Spreadsheet Applications3General Management Concentration Courses3ACCT 2110Principles of Accounting I3BFIN 2110Introduction to Finance3BLAW 2110Business Law I3BMGT 280Introduction to Human Resources3ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3	ENGL 2210G	Professional & Technical Communication	3
BMGT 205Customer Service in Business3BMGT 216Business Math3BMGT 240Human Relations3BUSA 1110Intro to Business3BMGT 2110Principles of Management3OATS 213Word Processing I3OECS 215Spreadsheet Applications3General Management Concentration Courses3ACCT 2110Principles of Accounting I3BFIN 2110Introduction to Finance3BLAW 2110Business Law I3BMGT 280Introduction to Human Resources3ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3	Core Degree Requir	rements	
BMGT 216Business Math3BMGT 240Human Relations3BUSA 1110Intro to Business3BUSA 1110Principles of Management3OATS 213Word Processing I3OECS 215Spreadsheet Applications3General Management Concentration Courses3ACCT 2110Principles of Accounting I3BFIN 2110Introduction to Finance3BLAW 2110Business Law I3BMGT 221Internship I2BMGT 280Introduction to Human Resources3ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3	BCIS 1110	Introduction to Information Systems	3
BMGT 240Human Relations3BMGT 240Intro to Business3BUSA 1110Intro to Business3MGMT 2110Principles of Management3OATS 213Word Processing I3OECS 215Spreadsheet Applications3General Management Concentration Courses3ACCT 2110Principles of Accounting I3BFIN 2110Introduction to Finance3BLAW 2110Business Law I3BMGT 221Internship I2BMGT 280Introduction to Human Resources3ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3	BMGT 205	Customer Service in Business	3
BUSA 1110Intro to Business3BUSA 1110Principles of Management3OATS 213Word Processing I3OECS 215Spreadsheet Applications3General Management Concentration Courses3ACCT 2110Principles of Accounting I3BFIN 2110Introduction to Finance3BLAW 2110Business Law I3BMGT 221Internship I2BMGT 280Introduction to Human Resources3ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3	BMGT 216	Business Math	3
MGMT 2110Principles of Management3OATS 213Word Processing I3OECS 215Spreadsheet Applications3General Management Concentration Courses3ACCT 2110Principles of Accounting I3BFIN 2110Introduction to Finance3BLAW 2110Business Law I3BMGT 221Internship I2BMGT 280Introduction to Human Resources3ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3	BMGT 240	Human Relations	3
OATS 213Word Processing I3OECS 215Spreadsheet Applications3General Management Concentration Courses3ACCT 2110Principles of Accounting I3BFIN 2110Introduction to Finance3BLAW 2110Business Law I3BMGT 221Internship I2BMGT 280Introduction to Human Resources3ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3	BUSA 1110	Intro to Business	3
OECS 215       Spreadsheet Applications       3         General Management Concentration Courses       3         ACCT 2110       Principles of Accounting I       3         BFIN 2110       Introduction to Finance       3         BLAW 2110       Business Law I       3         BMGT 221       Internship I       2         BMGT 280       Introduction to Human Resources       3         ENTR 1110       Entrepreneurship       3         MKTG 2110       Principles of Marketing       3	MGMT 2110	Principles of Management	3
General Management Concentration Courses       3         ACCT 2110       Principles of Accounting I       3         BFIN 2110       Introduction to Finance       3         BLAW 2110       Business Law I       3         BMGT 221       Internship I       2         BMGT 280       Introduction to Human Resources       3         ENTR 1110       Entrepreneurship       3         MKTG 2110       Principles of Marketing       3	OATS 213	Word Processing I	3
ACCT 2110Principles of Accounting I3BFIN 2110Introduction to Finance3BLAW 2110Business Law I3BMGT 221Internship I2BMGT 280Introduction to Human Resources3ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3	OECS 215	Spreadsheet Applications	3
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BLAW 2110Business Law I3BMGT 221Internship I2BMGT 280Introduction to Human Resources3ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3	ACCT 2110	Principles of Accounting I	3
BMGT 221Internship I2BMGT 280Introduction to Human Resources3ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3	BFIN 2110	Introduction to Finance	3
BMGT 280Introduction to Human Resources3ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3	BLAW 2110	Business Law I	3
ENTR 1110Entrepreneurship3MKTG 2110Principles of Marketing3	BMGT 221	Internship I	2
MKTG 2110 Principles of Marketing 3	BMGT 280	Introduction to Human Resources	3
······································	ENTR 1110	Entrepreneurship	3
Total Cradita 60	MKTG 2110	Principles of Marketing	3
	Total Credits		60

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

<sup>2</sup> See the <u>General Education Section</u> (p. 9) 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.

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

Course First Year	Title	Credits
Fall		
BCIS 1110	Introduction to Information Systems	3
BUSA 1110	Intro to Business	3
ENGL 1110G	Composition I	4
MGMT 2110	Principles of Management	3
Choose one from the	following:	3
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
	Credits	16
Spring		
ACCT 2110	Principles of Accounting I	3
BMGT 216	Business Math	3
ENTR 1110	Entrepreneurship	3
OATS 213	Word Processing I	3
Select one course fro 1	m Area II, III, V, or VI (an area not already chosen)	3-4
	Credits	15

Second	Year
Fall	

Fall		
BMGT 205	Customer Service in Business	3
BFIN 2110	Introduction to Finance	3
ENGL 2210G	Professional & Technical Communication	3
MKTG 2110	Principles of Marketing	3
Select one course	from Area II, III, V, or VI (an area not already chosen)	3-4
	Credits	15
Spring		
BLAW 2110	Business Law I	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

<sup>1</sup> See the <u>General Education Section</u> (p. 9) 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.

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

### **Total Credits Required for Certificate: 30**

Prefix	Title	Credits
ACCT 2110	Principles of Accounting I	3
ACCT 2120	Principles of Accounting II	3
BCIS 1110	Introduction to Information Systems	3
BLAW 2110	Business Law I	3
BMGT 208	Business Ethics	3
BUSA 1110	Intro to Business	3
MGMT 2110	Principles of Management	3
OATS 140	Payroll Accounting	3
OATS 205	Accounting Software I	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.

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

Course	Title	Credits
First Year		
Fall		
ACCT 2110	Principles of Accounting I	3
BCIS 1110	Introduction to Information Systems	3

BMGT 208	Business Ethics	3
MGMT 2110	Principles of Management	3
OATS 205	Accounting Software I	3
	Credits	15
Spring		
ACCT 2120	Principles of Accounting II	3
BLAW 2110	Business Law I	3
BUSA 1110	Intro to Business	3
OATS 140	Payroll Accounting	3
OECS 215	Spreadsheet Applications	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.

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

### **Total Credits Required for Certificate: 30**

Prefix	Title	Credits
ACCT 2110	Principles of Accounting I	3
BCIS 1110	Introduction to Information Systems	3
BMGT 240	Human Relations	3
BMGT 280	Introduction to Human Resources	3
BUSA 1110	Intro to Business	3
ECON 2110G	Macroeconomic Principles	3
or ECON 2120G	Microeconomics Principles	
ENTR 1110	Entrepreneurship	3
MGMT 2110	Principles of Management	3
MKTG 2110	Principles of Marketing	3
OECS 215	Spreadsheet Applications	3
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.

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

Course	Title	Credits
First Year		
Fall		
BCIS 1110	Introduction to Information Systems	3
BUSA 1110	Intro to Business	3
ECON 2110G or ECON 2120G	Macroeconomic Principles or Microeconomics Principles	3
MGMT 2110	Principles of Management	3
MKTG 2110	Principles of Marketing	3
	Credits	15
Spring		
ACCT 2110	Principles of Accounting I	3
BMGT 240	Human Relations	3

	Total Credits	30
	Credits	15
OECS 215	Spreadsheet Applications	3
ENTR 1110	Entrepreneurship	3
BMGT 280	Introduction to Human Resources	3

### Leadership Skills - Certificate

The Leadership Skills Certificate prepares students in leadership roles in the workplace or in community organizations.

### **Total Credits Required for Certificate: 16**

Prefix	Title	Credits
BMGT 140	Principles of Supervision I	3
or BMGT 240	Human Relations	
COMM 1130G	Public Speaking	3
ENGL 1110G	Composition I	4
MGMT 2110	Principles of Management	3
Select one from the	following:	3
ECON 1110G	Survey of Economics	
POLS 1120G	American National Government	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
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 1130G	Public Speaking	3
ENGL 1110G	Composition I	4
MGMT 2110	Principles of Management	3
Choose one from the	following:	3
ECON 1110G	Survey of Economics	
POLS 1120G	American National Government	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
	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. 102)

#### Graduates of this program will:

- 1. Apply the fundamental principles and methods of Computer Science to a wide range of applications and synthesize solutions for computational applications and strategies.
- Analyze and implement computer structure, instruction execution, and memory addressing techniques.
- 3. Develop computer programs in machine, assembly, and high-level programming languages.
- Apply advanced algorithmic and mathematical concepts to the design and analysis of computational problems and software.
- Design solutions and logical plans for the development of a software and implement all stages of a software design cycle, including documentation.
- Demonstrate how the ethical use of computers can promote accessibility and enhance outcomes for underserved communities.

#### 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

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#### Website:

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

### **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.

Prefix	Title	Credits
General Education	Requirements	
Select one course fro 12-14 credits. <sup>1, 2</sup>	om four of the following six content areas for a total of	12-14
5 1	s courses from Area I, II, and III; students must rom the remaining areas to complete General eents.	

Area I: Communica	tions	
ENGL 1110G	Composition I	
Area II: Mathemati		
MATH 1220G	College Algebra <sup>3</sup>	
Area III: Laboratory	Science	
Select one course	from the following:	
ASTR 1115G	Introduction Astro (lec+lab)	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution	
	and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
ENVS 1110G	Environmental Science I	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	
PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab	
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
Area IV: Social/Beh	avioral Sciences	
Area V: Humanities	;	
Area VI: Creative/F	ine Arts	
General Education Elec	tive	
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
Core Degree Requirem	ients	
C S 111	Computer Science Principles	4
C S 117	Introduction to Computer Animation	3
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.	
ET 182	Digital Logic	3
ENGL 2210G	Professional & Technical Communication	3
ENGR 100G	Introduction to Engineering	3
MATH 1430G	Applications of Calculus I	3
or MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1511G	Calculus and Analytic Geometry I	3-4
or MATH 1350G	Introduction to Statistics	

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

<sup>2</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.

<sup>3</sup> MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.

# A Suggested Plan of Study - Computer 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.

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

Course	Title	Credits
First Year		
Fall		
CS111	Computer Science Principles	4
C S 117	Introduction to Computer Animation	3
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
ENGR 100G	Introduction to Engineering	3
MATH 1220G	College Algebra <sup>1</sup>	3
	Credits	16
Spring		
C S 151	C++ Programming	3
C S 172	Computer Science I	4
MATH 1430G	Applications of Calculus I	3-4
or MATH 1250G	or Trigonometry & Pre-Calculus	
Select one Laboratory	Science course from degree list <sup>2</sup>	4
	Credits	14
Second Year		
Fall		
C S 153	Python Programming I	3
C S 271	Object Oriented Programming	4
ET 182	Digital Logic	3
ENGL 1110G	Composition I	4
MATH 1511G or MATH 1350G	Calculus and Analytic Geometry I or Introduction to Statistics	3-4
	Credits	17
Spring		
C S 272	Introduction to Data Structures	4
C S 273	Machine Programming and Organization	3-4
or C S 209	or Special Topics.	
ENGL 2210G	Professional & Technical Communication	3
Select one course from	n Area IV, V, or VI <sup>3</sup>	3
	Credits	13
	Total Credits	60

<sup>1</sup> MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.

#### Area III: Laboratory Science Courses

- ASTR 1115G Introduction Astro (lec+lab)
- BIOL 2110G Principles of Biology. Cellular and Molecular Biology/BIOL 2110L Principles of Biology. Cellular and Molecular Biology Laboratory
- BIOL 2610G Principles of Biology. Biodiversity, Ecology, and Evolution/BIOL 2610L Principles of Biology. Biodiversity, Ecology, and Evolution Laboratory
- CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors
- CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors
- ENVS 1110G Environmental Science I
- GEOG 1110G Physical Geography
- GEOL 1110G Physical Geology
- PHYS 1230G Algebra-Based Physics IPHYS 1230L Algebra-Based Physics I Lab
- PHYS 1240G Algebra-Based Physics IIPHYS 1240L Algebra-Based Physics
   II Lab
- PHYS 1310G Calculus -Based Physics IPHYS 1310L Calculus -Based Physics I Lab
- PHYS 1320G Calculus -Based Physics IIPHYS 1320L Calculus -Based Physics II Lab
- <sup>3</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.

### **Criminal Justice**

#### What do criminal justice graduates do?

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.

Criminal Justice - Associate Degree (p. 104)

#### Graduates of this program will:

- 1. Explain basic terms and concepts related to criminal justice systems, including law enforcement, courts and corrections.
- 2. Evaluate and express the role of law enforcement officers and other participants in the criminal justice systems from investigation through corrections in the context of given fact patterns or real-world scenarios.
- 3. Apply the rules and responsibilities of law enforcement officers, prosecutors, defense attorneys and other participants in the criminal justice system to given fact patterns or real-world scenarios.
- Analyze given fact patterns or real-world scenarios from the perspectives of defendants, victims, law enforcement officers and other participants in the criminal justice systems.
- 5. Demonstrate an awareness of how issues such as race, gender, sexual orientation and mental health arise in the criminal justice system.

#### Arts and Science Division

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## **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.

		Credits
General Education Req	uirements	
Area I: Communications		
English Composition - Lo	evel 1	
ENGL 1110G	Composition I	4
English Composition - Lo	evel 2	
ENGL 2210G	Professional & Technical Communication	3
or ENGL 2221G	Writing in the Humanities and Social Science	
Oral Communication		
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
Area II: Mathematics		
MATH 1220G	College Algebra <sup>1</sup>	3
or MATH 1350G	Introduction to Statistics	
Area III/IV: Laboratory S	cience and Social/Behavioral Sciences	10-11
CJUS 1110G	Introduction to Criminal Justice (Core Requirement)	
Select one course f	rom Area III: Laboratory Science (4 credits) <sup>2</sup>	
	rom either Area III or Area IV (3-4 credits) <sup>2</sup>	
Area V: Humanities		
Choose one from the fo	ollowing:	3
PHIL 1145G	Philosophy, Law, and Ethics (Core Requirement)	
PHIL 1120G	Logic, Reasoning, & Critical Thinking (Core Requirement)	

PHIL 2230G	Philosophical Thought (Core Requirement)	
Area VI: Creative/Fi	ne Arts	
Select one course	from Area VI: Creative/Fine Arts <sup>2</sup>	3
General Education	Elective	
Select one course	from any General Education area <sup>2</sup>	3-4
Core Degree Requi	rements	
CJUS 1120	Criminal Law	3
CJUS 2150	Corrections System	3
CJUS 2120	Criminal Courts and Procedure	3
CJUS 2220	The American Law Enforcement System	3
Second Language Requirements for Associate Degree <sup>3</sup>		6-8
FYEX 1110	First-year Seminar	1
Electives to bring total credits to 60 <sup>4, 5, 6</sup>		3-6
Total Credits		60

Total Credits

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

<sup>2</sup> MATH 1220G College Algebra or MATH 1350G Introduction to Statistics is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G or MATH 1350G first.

<sup>3</sup> Completion of a second language through the 1110-1120 level. See an advisor for specifics. More information is available in the Las Cruces catalog in the Bachelor of Criminal Justice degree section.

<sup>4</sup> Recommended electives are:

- CJUS 2140 Criminal Investigations
- CJUS 2160 Field Experience in Criminal Justice
- PSYC 2221 Applied Psychology
- POLS 1120G American National Government
- ENGL 2210G Professional & Technical Communication
- ENGL 2221G Writing in the Humanities and Social Science (Choose English class not previously taken).

<sup>6</sup> 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.

## A grade of C- or better is required in all Criminal Justice courses and second language courses.

Course	Title	Credits
First Year		
Fall		
CJUS 1110G	Introduction to Criminal Justice	3
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
ENGL 1110G	Composition I	4

<sup>&</sup>lt;sup>5</sup> 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.

FYEX 1110	First-year Seminar	1
MATH 1220G	College Algebra <sup>1</sup>	3
or MATH 1350G	or Introduction to Statistics	
	Credits	14
Spring		
CJUS 2220	The American Law Enforcement System	3
ENGL 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science	3
Choose one from the	following:	3
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 2230G	Philosophical Thought	
Area III: Laboratory S	cience Course <sup>2</sup>	4
General Education El	ective <sup>2</sup>	3-4
	Credits	16
Second Year		
Fall		
CJUS 1120	Criminal Law	3
Elective <sup>3, 4, 5</sup>		3
Second Language (1	st of 2 consecutive levels) <sup>6</sup>	4
Area III: Laboratory S Course <sup>2</sup>	cience or Area IV: Social/Behavioral Science	3-4
	Credits	14
Spring		
CJUS 2120	Criminal Courts and Procedure	3
CJUS 2150	Corrections System	3
Second Language (2)	nd of 2 consecutive levels) <sup>6</sup>	4
Area VI: Creative/Fine	e Arts Course <sup>2</sup>	3
Elective <sup>3,4</sup> , <sup>5</sup>		3
	Credits	16
	Total Credits	60

<sup>1</sup> MATH 1220G College Algebra or MATH 1350G Introduction to Statistics is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G or MATH 1350G first.

- <sup>2</sup> See the General Education Section of the catalog for a full list of courses.
- <sup>3</sup> Recommended electives are:
  - <u>CJUS 2140</u> Criminal Investigations
  - CJUS 2160 Field Experience in Criminal Justice
  - PSYC 2221 Applied Psychology
  - POLS 1120G American National Government
  - ENGL 2210G Professional & Technical Communication
  - <u>ENGL 2221G</u> Writing in the Humanities and Social Science (Choose English class not previously taken).
- <sup>4</sup> 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.

<sup>5</sup> 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.

<sup>6</sup> Completion of a second language through the 1110-1120 level. 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 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 1110G Composition I
- · ENGL 2221G Writing in the Humanities and Social Science
- · MATH 1134 Fundamentals of Elementary Mathematics I
- MATH 2134G Fundamentals of Elementary Math II
- EDLT 2110 Integrating Technology with Teaching
- · ECED 1110 Child Growth, Development, and Learning
- · ECED 1115 Health, Safety, and Nutrition
- ECED 1120 Guiding Young Children
- · ECED 1125 Assessment of Children and Evaluation of Programs
- · ECED 1130 Family and Community Collaboration
- ECED 2110 Professionalism
- ECED 2115 Introduction to Language, Literacy, and Reading
- ECED 2120 Curriculum Development through Play Birth through Age 4 (PreK)
- ECED 2121 Curriculum Development through Play Birth through Age 4 (PreK) Practicum
- ECED 2130 Curriculum Development and Implementation Age 3 (PreK) through Grade 3
- ECED 2131 Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum

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. 106)

#### Graduates of this program will:

- 1. Discuss and apply the major theories of early childhood development and learning.
- 2. Define principles of child guidance and assessment and the practical application of each.
- 3. Describe the involvement of families and communities from diverse cultural backgrounds in early childhood education.
- Articulate a personal philosophy of early childhood education that addresses children's physical and mental well-being in diverse contexts.
- 5. Apply effective writing and speaking skills in presentations, documents, and reports.
- 6. Search and identify appropriate technology for use in the educational environment for both personal use and in a classroom setting.
- Identify age appropriate activities for numeracy, literacy, and scientific inquiry.

#### **Career & Technology Division**

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## 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 <u>TEP</u> prerequisites (p. 105).

### **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 Rec	juirements	
Area I: Communications	3	
English Composition - L	evel 1	
ENGL 1110G	Composition I <sup>1</sup>	4
English Composition - L	evel 2	
ENGL 2221G	Writing in the Humanities and Social Science <sup>1</sup>	3
Oral Communication		
COMM 1115G	Introduction to Communication	3
or COMM 1130G	Public Speaking	
Area II: Mathematics		
MATH 2134G	Fundamentals of Elementary Math II <sup>1</sup>	3
Areas III/IV: Laboratory	Science and Social/Behavioral Sciences	
CEPY 1120G	Human Growth and Behavior	3
Select two different su	bjects with labs from the following (8 credits):	8
ASTR 1115G	Introduction Astro (lec+lab)	
or ASTR 1120G	The Planets	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
BIOL 1190G	Contemporary Problems in Biology	
BIOL 2110G	Principles of Biology: Cellular and Molecular	
& BIOL 2110L	Biology and Principles of Biology: Cellular and	
	Molecular Biology Laboratory	
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and	
& BIOL 2610L	Evolution	
	and Principles of Biology: Biodiversity, Ecology,	
	and Evolution Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
or CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	1
ENVS 1110G	Environmental Science I	
GEOG 1110G	Physical Geography	
or GEOL 1110G	Physical Geology	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab	
Area V: Humanities		
HIST 1130G	World History I	3
or HIST 1140G	World History II	
Area VI: Creative/Fine A	rts	
Choose one from the f	ollowing:	3
ARTH 1115G	Orientation in Art	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
General Education Elect	tive	
HIST 1110G	United States History I	3
or HIST 1120G	United States History II	
Core Degree Requirem	ents	

ECED 1110	Child Growth, Development, and Learning <sup>1</sup>	3
ECED 1115	Health, Safety, and Nutrition <sup>1</sup>	2
ECED 1120	Guiding Young Children <sup>1</sup>	3
ECED 1125	Assessment of Children and Evaluation of Programs <sup>1</sup>	3
ECED 1130	Family and Community Collaboration <sup>1</sup>	3
ECED 2110	Professionalism	2
ECED 2115	Introduction to Language, Literacy, and Reading <sup>1</sup>	3
ECED 2120	Curriculum Development through Play Birth through Age 4 (PreK) <sup>1,2</sup>	3
ECED 2121	Curriculum Development through Play Birth through Age 4 (PreK) Practicum <sup>1,2</sup>	2
ECED 2130	Curriculum Development and Implementation Age 3 (PreK) through Grade 3 <sup>2</sup>	3
ECED 2131	Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum <sup>2</sup>	2
EDLT 2110	Integrating Technology with Teaching <sup>1</sup>	3
MATH 1134	Fundamentals of Elementary Mathematics I $^{1, 3}$	3
Total Credits		68

<sup>1</sup> Pre/co-requisites for Teacher Education Program (TEP). A grade of C- or better is required for course.

- <sup>2</sup> Courses are available online from NMSU Grants. Check with Advisor.
- <sup>3</sup> Note: Prerequisite for MATH 1134 Fundamentals of Elementary Mathematics I is MATH 1215 Intermediate Algebra and ENGL 1110G Composition I.

### A Suggested Plan of Study - Early Childhood

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		
CEPY 1120G	Human Growth and Behavior	3
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
ECED 1110	Child Growth, Development, and Learning	3
ENGL 1110G	Composition I	4
	Credits	13
Spring		
ECED 1115	Health, Safety, and Nutrition	2
ECED 1130	Family and Community Collaboration	3
EDLT 2110	Integrating Technology with Teaching	3
ECED 2115	Introduction to Language, Literacy, and Reading	3
ENGL 2221G	Writing in the Humanities and Social Science	3
MATH 1134	Fundamentals of Elementary Mathematics I	3
	Credits	17
Summer		
HIST 1110G or HIST 1120G	United States History I or United States History II	3
Choose one from the f	following:	3
ARTH 1115G	Orientation in Art	
MUSC 1110G	Music Appreciation: Jazz	

MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
	Credits	6
Second Year		
Fall		
Area II: Laboratory So	cience Course <sup>1</sup>	4
ECED 1125	Assessment of Children and Evaluation of Programs	3
ECED 2110	Professionalism	2
ECED 2120	Curriculum Development through Play Birth through Age 4 (PreK) <sup>2</sup>	3
ECED 2121	Curriculum Development through Play Birth through Age 4 (PreK) Practicum <sup>2</sup>	2
MATH 2134G	Fundamentals of Elementary Math II	3
	Credits	17
Spring		
ECED 1120	Guiding Young Children	3
ECED 2130	Curriculum Development and Implementation Age 3 (PreK) through Grade 3 <sup>2</sup>	3
ECED 2131	Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum <sup>2</sup>	2
HIST 1130G or HIST 1140G	World History I or World History II	3
Area III: Laboratory S	cience Course <sup>1</sup>	4
	Credits	15
	Total Credits	68

<sup>1</sup> See Degree <u>Requirements Tab</u> (p. 106) for specifics

<sup>2</sup> 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 1110G Composition I
- ENGL 2221G Writing in the Humanities and Social Science
- MATH 1134 Fundamentals of Elementary Mathematics I\*
- MATH 2134G Fundamentals of Elementary Math II\*
- MATH 1220G College Algebra\*
- MATH 1250G Trigonometry & Pre-Calculus\*
- BLED 1110 Introduction n Bilingual Education/ESL\*
- BLED 2110 Bilingual Methods
- EDUC 1185 Introduction to Secondary Education and Youth\*
- EDLT 2110 Integrating Technology with Teaching
- CEPY 2110 Learning in the Classroom.

\*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 (Elementary)- Associate Degree (p. 108)

Education (Secondary Math) - Associate Degree (p. 110)

Education (Secondary Science)- Associate Degree (p. 112)

#### Graduates of this program will:

- 1. Observe and document essential principle of instruction, classroom management, and instructional methods that encompass the diversity of learner needs.
- 2. Discuss and apply the major theories of childhood development and learning.
- 3. Apply effective writing and speaking skills in presentations, documents, and reports.
- 4. Search and identify appropriate technology for use in the educational environment for both personal use and in a classroom setting.
- Perform critical thinking and logical step-wise processes in math and science.
- 6. Describe how issues of diversity may impact the schooling process.

### **Career & Technology Division**

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## **Education (Elementary) - 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 <u>TEP</u> prerequisites (p. 107).

### **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 Reg	uirements	
Area I: Communication		
English Composition - L	evel 1	
ENGL 1110G	Composition I <sup>1</sup>	4
English Composition - L	evel 2	
ENGL 2221G	Writing in the Humanities and Social Science <sup>1</sup>	3
Oral Communication		
COMM 1115G	Introduction to Communication	3
or COMM 1130G	Public Speaking	
Area II: Mathematics		
MATH 2134G	Fundamentals of Elementary Math II <sup>1</sup>	3
Areas III/IV: Laboratory	Science and Social/Behavioral Sciences	
CEPY 1120G	Human Growth and Behavior	3
Choose two different s	ubjects with labs (8 credits)	8
ASTR 1115G	Introduction Astro (lec+lab)	
or ASTR 1120G	The Planets	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
BIOL 1190G	Contemporary Problems in Biology	
BIOL 2110G	Principles of Biology: Cellular and Molecular	
& BIOL 2110L	Biology and Principles of Biology: Cellular and	
	Molecular Biology Laboratory	
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and	
& BIOL 2610L	Evolution	
	and Principles of Biology: Biodiversity, Ecology,	
	and Evolution Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and	
ar CUEM 10150	Laboratory (non majors)	
OF CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
ENVS 1110G	Environmental Science I	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab	
Area V: Humanities		
HIST 1130G	World History I	3
or HIST 1140G	World History II	
Area VI: Creative/Fine A		
Choose one from the f	ollowing:	3

ARTH 1115G	Orientation in Art	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
General Education Ele	ective	
HIST 1110G	United States History I	3
or HIST 1120G	United States History II	
Core Degree Require	ments	
BLED 1110	Introduction n Bilingual Education/ESL	3
BLED 2110	Bilingual Methods <sup>1</sup>	3
CEPY 2110	Learning in the Classroom <sup>1</sup>	3
EDLT 2110	Integrating Technology with Teaching <sup>1</sup>	3
LING 2110G	Introduction to the Study of Language and Linguistics	3
MATH 1134	Fundamentals of Elementary Mathematics I <sup>1, 2</sup>	3
MATH 1215	Intermediate Algebra <sup>3</sup>	3
Choose one from the	e following:	3
GEOG 1120G	World Regional Geography	
GEOG 1130G	Human Geography	
POLS 1120G	American National Government	
POLS 1110G	Introduction to Political Science	
Electives, to bring th	e total credits 60 <sup>4</sup>	3-4
Total Credits		60

<sup>1</sup> Pre/co-requisites for Teacher Education Program (TEP). A grade of C- or better is required for course.

 Prerequisite for MATH 1134 Fundamentals of Elementary Mathematics I is MATH 1215 Intermediate Algebra and ENGL 1110G Composition I.

<sup>3</sup> If test out of MATH 1215, 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 POLS 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 1220G College Algebra
- MATH 1430G Applications of Calculus I
- MATH 1250G Trigonometry & Pre-Calculus
- MATH 2234 Fundamentals of Elementary Mathematics III
- MATH 1350G Introduction to Statistics

### General Science

- ASTR Elective
- BIOL Elective
- CHEM or PHYS Elective
- GEOL or Physical GEOG Elective
- Science Elective
- Area III: Laboratory Science (General Education) Course

### Suggested Plan of Study - Education, Elementary 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		
BLED 2110	Bilingual Methods	3
CEPY 1120G	Human Growth and Behavior	3
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
ENGL 1110G	Composition I	4
MATH 1215	Intermediate Algebra	3
	Credits	16
Spring		
BLED 1110	Introduction n Bilingual Education/ESL	3
	5	0
CEPY 2110	Learning in the Classroom	3
CEPY 2110 ENGL 2221G	Learning in the Classroom Writing in the Humanities and Social Science	
		3
ENGL 2221G HIST 1130G	Writing in the Humanities and Social Science World History I	3

#### Second Year

Fall		
HIST 1110G or HIST 1120G	United States History I or United States History II	3
Area II: Laboratory S	cience Course <sup>1</sup>	4
MATH 2134G	Fundamentals of Elementary Math II	3
Choose one from the	e following:	3
ARTH 1115G	Orientation in Art	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
Choose one from the	e following:	3
GEOG 1120G	World Regional Geography	
GEOG 1130G	Human Geography	
POLS 1110G	Introduction to Political Science	
POLS 1120G	American National Government	
	Credits	16
Spring		
EDLT 2110	Integrating Technology with Teaching	3
LING 2110G	Introduction to the Study of Language and Linguistics	3
Area III: Laboratory S	Science <sup>1</sup>	4
Teaching Field Electi	ive <sup>2</sup>	3
	Credits	13
	Total Credits	60

- <sup>1</sup> See the Degree <u>Requirements tab</u> (p. 108) for more information
  - An Elective from the Teaching fields listed below is recommended. See advisor for appropriate choice.

#### Language Arts

- 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 1220G College Algebra
- MATH 1430G Applications of Calculus I
- MATH 1250G Trigonometry & Pre-Calculus
- MATH 2234 Fundamentals of Elementary Mathematics III
- MATH 1350G Introduction to Statistics

#### **General Science**

- ASTR Elective
- BIOL Elective
- CHEM or PHYS Elective
- GEOL or Physical GEOG Elective
- Science Elective
- · Area III: Laboratory Science (General Education) Course

### Education (Secondary Math) -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 <u>TEP</u> prerequisites (p. 107).

### 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.

Prefix	Title	Credits
General Education R	•	
Area I: Communication		
English Composition -		
ENGL 1110G	Composition I <sup>1</sup>	4
English Composition -		
ENGL 2221G	Writing in the Humanities and Social Science <sup>1</sup>	3
Oral Communication		
COMM 1115G	Introduction to Communication	3
or COMM 1130G	Public Speaking	
Area II: Mathematics	12	
MATH 1250G	Trigonometry & Pre-Calculus <sup>1, 2</sup>	4
	ry Science and Social/Behavioral Sciences	10
CEPY 1120G	Human Growth and Behavior	
Choose one from the	following:	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
Select one sequence	from the following:	
PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab	
PHYS 1310G	Calculus -Based Physics I	
& PHYS 1310L	and Calculus -Based Physics I Lab	
Area V: Humanities		
HIST 1150G	Western Civilization I	3
or HIST 1160G	Western Civilization II	
Area VI: Creative/Fine		
Choose one from the	following:	3
ARTH 1115G	Orientation in Art	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
General Education Ele	ctive	
HIST 1110G	United States History I	3
or HIST 1120G	United States History II	
Core Degree Require	ments	
C S 111	Computer Science Principles	4
E T 182	Digital Logic	3
EDLT 2110	Integrating Technology with Teaching <sup>1</sup>	3
EDUC 1185	Introduction to Secondary Education and Youth <sup>1</sup>	3
MATH 1511G	Calculus and Analytic Geometry I	4
MATH 1521G	Calculus and Analytic Geometry II	4
MATH 2530G	Calculus III	З
Select one from the f	following:	4
PHYS 1240G	Algebra-Based Physics II	
& PHYS 1240L	and Algebra-Based Physics II Lab	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
Total Credits		61

<sup>1</sup> Pre/co-requisites for Teacher Education Program (TEP). A grade of C- or better is required for course.

<sup>2</sup> Mathematics courses are required for the degree but students may need to take prerequisites first.

### A Suggested Plan of Study - Education, Secondary Mathematics 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 First Year Fall	Title	Credits
CEPY 1120G	Human Growth and Behavior	3
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
ENGL 1110G	Composition I	4
MATH 1250G	Trigonometry & Pre-Calculus	4
Choose one from the fe	ollowing:	3
ARTH 1115G	Orientation in Art	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
Spring	Credits	17
E T 182	Digital Logic	3
ENGL 2221G	Writing in the Humanities and Social Science	3
MATH 1511G	Calculus and Analytic Geometry I	4
HIST 1150G or HIST 1160G	Western Civilization I or Western Civilization II	3
Choose one from the f	ollowing:	3
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
Second Year Fall	Credits	16
C S 111	Computer Science Principles	4
MATH 1521G	Calculus and Analytic Geometry II	4
HIST 1110G or HIST 1120G	United States History I or United States History II	3
Select one from the fol	lowing:	4
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
	Credits	15
Spring		
EDLT 2110	Integrating Technology with Teaching	3
EDUC 1185	Introduction to Secondary Education and Youth	3
MATH 2530G	Calculus III	3
Select one from the fol	lowing:	4
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab	
PHYS 1320G	Calculus -Based Physics II	
& PHYS 1320L	and Calculus -Based Physics II Lab	
	Credits	13
	Total Credits	61

# Education (Secondary Science) -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 <u>TEP</u> prerequisites (p. 107).

### **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 Re	quirements	
Area I: Communication		
English Composition -		
ENGL 1110G	Composition I <sup>1</sup>	4
English Composition -	Level 2	
ENGL 2221G	Writing in the Humanities and Social Science <sup>1</sup>	3
Oral Communication		
COMM 1115G	Introduction to Communication	3
or COMM 1130G	Public Speaking	
Area II: Mathematics		
MATH 1220G	College Algebra <sup>1, 2</sup>	3-4
or MATH 1250G	Trigonometry & Pre-Calculus	
Areas III/IV: Laboratory	Science and Social/Behavioral Sciences	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology,	4
CEPY 1120G	and Evolution Laboratory Human Growth and Behavior	3
GEOG 1120G	World Regional Geography	3
or GEOG 1130G	Human Geography	3
Area V: Humanities	Human Geography	
Select one from the fo	llowing	3
HIST 1105G	Making History	5
HIST 1110G	United States History I	
HIST 1120G	•	
HIST 1120G	United States History II World History I	
HIST 1140G	World History II	
HIST 1140G	Western Civilization I	
HIST 1160G	Western Civilization II	
Area VI: Creative/Fine		
		2
Select one from the fo	Orientation in Art	3
ARTS 1145G	Visual Concepts	

ARTH 2110G	History of Art I	
ARTH 2120G	History of Art II	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
General Education Elec		
Select one course (no Sciences <sup>3</sup>	t CEPY or GEOG) from Area IV: Social/Behavioral	3
Core Degree Requirem	nents	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	4
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
EDLT 2110	Integrating Technology with Teaching <sup>1</sup>	3
EDUC 1185	Introduction to Secondary Education and Youth <sup>1</sup>	3
MATH 1430G	Applications of Calculus I <sup>4</sup>	3
or MATH 1511G	Calculus and Analytic Geometry I	
Select one from the fo	llowing:	4
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
Select one from the fo	llowing:	4
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab	
PHYS 1320G	Calculus -Based Physics II	
& PHYS 1320L	and Calculus -Based Physics II Lab	
Total Credits		61
C- or better is re MATH 1220G C	es for Teacher Education Program (TEP). A grade equired for course. ollege Algebra or MATH 1250G Trigonometry & Pr	e-
prerequisites to	ired for the degree but students may need to take enter the course.	
of courses.	<u>Education Section</u> (p. 9) of the catalog for a full li	st
MATH 1521G C	Calculus and Analytic Geometry II or MATH 2530G acceptable substitutes.	
A Suggeste	d Plan of Study - Education,	
Secondary	Science Concentration	
	nay be needed based on placement test results isites. Visit with an advisor for help with creating a	

Course	Title	Credits
First Year		
Fall		
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	4
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
ENGL 1110G	Composition I	4

customized plan.

MATH 1220G	College Algebra	3-4
or MATH 1250G	or Trigonometry & Pre-Calculus	
	Credits	15
Spring		
BIOL 2110G	Principles of Biology: Cellular and Molecular	4
& BIOL 2110L	Biology	
	and Principles of Biology: Cellular and Molecular Biology Laboratory	
COMM 1130G	Public Speaking	3
or COMM 1115G	or Introduction to Communication	0
EDUC 1185	Introduction to Secondary Education and	3
	Youth	
ENGL 2221G	Writing in the Humanities and Social Science	3
MATH 1430G	Applications of Calculus I	3-4
or MATH 1511G	or Calculus and Analytic Geometry I	
	Credits	16
Second Year		
Fall		
CEPY 1120G	Human Growth and Behavior	3
CHEM 1225G	General Chemistry II Lecture and Laboratory	4
	for STEM Majors	
Select one from the fo	bllowing:	3
ARTH 1115G	Orientation in Art	
ARTS 1145G	Visual Concepts	
ARTH 2110G	History of Art I	
ARTH 2120G	History of Art II	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
Select one of the follo	wing:	4
PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab	
PHYS 1310G	Calculus -Based Physics I	
& PHYS 1310L	and Calculus -Based Physics I Lab	
Select one from the fo	ollowing:	3
HIST 1105G	Making History	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
	Credits	17
Spring		
EDLT 2110	Integrating Technology with Teaching	3
GEOG 1120G	World Regional Geography	3
or GEOG 1130G	or Human Geography	
	t CEPY or GEOG) from Area IV: Social/Behavioral	3
Select one course (no Sciences <sup>2</sup>		
<u> </u>	ollowing:	4
Sciences <sup>2</sup>	Algebra-Based Physics II	4
Sciences <sup>2</sup> Select one from the fo	Algebra-Based Physics II and Algebra-Based Physics II Lab	4
Sciences <sup>2</sup> Select one from the fo PHYS 1240G & PHYS 1240L PHYS 1320G	Algebra-Based Physics II and Algebra-Based Physics II Lab Calculus -Based Physics II	4
Sciences <sup>2</sup> Select one from the fo PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab	13

<sup>1</sup> MATH 1220G College Algebra or MATH 1250G Trigonometry & Pre-Calculus is required for the degree but students may need to take prerequisites to enter the course. See the <u>General Education Section</u> (p. 9) 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 National Registry written examination and are eligible to apply for New Mexico State EMT-Basic Licensure..

Emergency Medical Services (EMS) Intermediate - Associate of Applied Science (p. 114)

EMS Course Completion Certificates (p. 115)

#### Graduate of this program will:

2

- Describe the roles, responsibilities, and scope of practice of the Emergency Medical Technician – Intermediate as it relates to the health care system.
- Evaluate occupational exposures, environmental safety hazards, high-risk situations, and emergency responses related to health care professions.
- 3. Apply anatomy and physiology principles to patient care across the lifespan in emergency situations.
- 4. Demonstrate ability to gather and document patient information including history, patient assessment, and condition.
- Practice critical thinking, soft skills, and professionalism when communicating with and/or instructing patients or non-healthcare personnel on first aid procedures.
- 6. Demonstrate collaborative communication and teamwork when working in emergency settings.
- 7. Prepare a plan of care based on needs of patient; considering condition, patient history and assessment, and emergency procedures.

#### Career & Technology Division

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

Division Head: Cathy Aguilar-Morgan

Allied Health Director.

Becky Ross email: <u>bross@nmsu.edu</u> Phone: <u>575.439.3873</u>

Administrative Assistant: Michelle Nelson

Office Location: Science Center

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Website: <a href="http://nmsua.edu/career-and-technology/">http://nmsua.edu/career-and-technology/</a>

### 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 Req	uirements	
Select one course from 12-14 credits. <sup>1, 2</sup>	four of the following six content areas for a total of	12-14
5 1	ourses from Areas I, II, III, and IV students will dditional courses to complete General Education	
Area I: Communicat	tions	
ENGL 1110G	Composition I (Core Requirement)	
Area II: Mathematic	S	
MATH 1220G	College Algebra (Core Requirement) <sup>3</sup>	
or MATH 1250G	Trigonometry & Pre-Calculus	
Area III: Laboratory	Science	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) (Core Requirement)	
or CHEM 1215G	General Chemistry I Lecture and Laboratory for STEN Majors	1
Area IV: Social/Beh	avioral Sciences	
SOCI 1110G	Introduction to Sociology	
General Education Elect	ive	
MATH 1350G	Introduction to Statistics	3
or MATH 2350G	Statistical Methods	
Core Degree Requirem	ents	

AHS 120	Medical Terminology	3
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
or AHS 153	Introduction to Anatomy and Physiology I	
BIOL 2225	Human Anatomy and Physiology II	4
COMM 1130G	Public Speaking	3
ENGL 2210G	Professional & Technical Communication	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
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
PSYC 1110G	Introduction to Psychology	3
Electives, to bring	the total credits to 60 <sup>4</sup>	5
Total Credits		60

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

- <sup>2</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.
- <sup>3</sup> MATH 1220G College Algebra or MATH 1250G Trigonometry & Pre-Calculus is required for the degree but students may need to take prerequisites to enter the course.
- <sup>4</sup> 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 - EMS, Intermediate

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 2210 or AHS 153	Human Anatomy and Physiology I for the Health Sciences or Introduction to Anatomy and Physiology I	4
CHEM 1120G or CHEM 1215G	Introduction to Chemistry Lecture and Laboratory (non majors) or General Chemistry I Lecture and Laboratory for STEM Majors	4
ENGL 1110G	Composition I	4
MATH 1220G or MATH 1250G	College Algebra <sup>1</sup> or Trigonometry & Pre-Calculus	3-4
	Credits	15
Spring		
AHS 120	Medical Terminology	3
BIOL 2225	Human Anatomy and Physiology II	4
ENGL 2210G	Professional & Technical Communication	3

SOCI 1110G	Introduction to Sociology	3
MATH 1350G	Introduction to Statistics	3
or MATH 2350G	or Statistical Methods	
	Credits	16
Second Year		
Fall		
COMM 1130G	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 <sup>2</sup>		3
	Credits	15
Spring		
Spring		
OEEM 150	Emergency Medical Technician Intermediate	5
1 5	Emergency Medical Technician Intermediate Emergency Medical Technician Intermediate Lab	5 2
OEEM 150	Emergency Medical Technician Intermediate	
OEEM 150 OEEM 150 L	Emergency Medical Technician Intermediate Lab Emergency Medical Technician Intermediate	2
OEEM 150 OEEM 150 L OEEM 151	Emergency Medical Technician Intermediate Lab Emergency Medical Technician Intermediate Field/Clinical	2
OEEM 150 OEEM 150 L OEEM 151 PSYC 1110G	Emergency Medical Technician Intermediate Lab Emergency Medical Technician Intermediate Field/Clinical	2 2 3

<sup>1</sup> MATH 1220G College Algebra or MATH 1250G Trigonometry & Pre-Calculus is required for the degree but students may need to take prerequisites to enter the course.

<sup>2</sup> 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. Students must pas an NMDOH CCHSP background check to work in a health care facility, be a current BLS health care provider, and meet all clinical clearance requirements.

Engineering Technology (Electronics)- Associate of Applied Science (p. 116)

Engineering Technology (Biomedical Equipment)- Associate of Applied Science (p. 117)

### Graduates of this program will:

### **Electronics Concentration**

- 1. Apply knowledge of electronic fundamentals, major electronic components, and essential circuit formulas in a field or laboratory setting.
- 2. Use a computer for academic and industry-related applications.
- 3. Apply technical knowledge and skills to install and support personal computers and computer networks.
- 4. Exhibit proficiency in the use of electronic test equipment and tools, and troubleshoot electronic circuits for various component malfunctions.

- 5. Demonstrate good oral and written communication skills and demonstrate good technical research skills.
- 6. Use strong analytical problem-solving skills and mathematical knowledge to solve complex technical problems.

#### **Biomedical Equipment Concentration**

- 1. Explain the function of the electrical components of medical equipment and diagnose common issues and perform preventive maintenance and repair in a clinic environment.
- 2. Describe the role of Biomedical Technology in healthcare and safety requirements, regulations, and standards.
- 3. Demonstrate a working medical vocabulary and ability to communicate as part of a healthcare team as well as knowledge of basic human anatomy and physiology.
- 4. Identify, analyze, and integrate the technical equipment requirements with the needs of medical staff and patients and use oral and written business communication skills appropriate to a clinical environment.
- 5. Identify key components of effective clinical customer service and function as an organized team member to complete complex tasks in a timely manner.
- 6. Demonstrate professional ethical behavior and a respect for diversity in an internship clinical setting as evidenced by supervisor reports.

#### **Career & Technology Division**

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

**Division Head: Cathy Aguilar-Morgan** 

Administrative Assistant: **Michelle Nelson** 

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#### Website:

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

## **Engineering Technology (Electronics)** 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 Red	quirements	
Select one course from 12-14 credits. <sup>1, 2</sup>	four of the following six content areas for a total of	12-14
This degree requires c	ourses from Areas I, II, III, and IV, students do not	
need to take any addit	ional courses.	
Area I: Communica	tions	
ENGL 1110G	Composition I (Core Requirement)	
Area II: Mathemati		
MATH 1220G	College Algebra (Core Requirement) <sup>3</sup>	
Area III: Laboratory		
Select one from the	e following (Core Requirement):	
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and	
	Laboratory (non majors)	
GEOL 1110G	Physical Geology	
PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab	
Area IV: Social/Beh	avioral Sciences	
SOCI 1110G	Introduction to Sociology (Core Requirement)	
or PSYC 1110G	Introduction to Psychology	
General Education Elec	tive	
COMM 1115G	Introduction to Communication	3
Core Degree Requirem	ients	
E T 104	Soldering Techniques	1
E T 120	Computation Software	3
E T 153	Introduction to Computer Networks	3
ET 182	Digital Logic	3
E T 183	Applied DC Circuits	3
ET 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 <sup>5</sup>	2
Electronics Concentra	tion 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

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. 9) of the catalog for a full list of courses.
- 3 MATH 1220G 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 ET 183 Applied DC Circuits and ET 184 Applied AC Circuits.

# A Suggested Plan of Study

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

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

Course	Title	Credits
First Year		
Fall		
COMM 1115G	Introduction to Communication	3
E T 120	Computation Software	3
E T 183	Applied DC Circuits	3
ELT 103	Math Study Skills for Electronics	1
MATH 1220G	College Algebra	3
	Credits	13
Spring		
ET104	Soldering Techniques	1
ET 153	Introduction to Computer Networks	3
ET 182	Digital Logic	3
ET184	Applied AC Circuits	3
ELT 103	Math Study Skills for Electronics	1
ENGL 1110G	Composition I	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	4
	1	
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
SOCI 1110G	Introduction to Sociology	3
or PSYC 1110G	or Introduction to Psychology	
Select one from the fo	ollowing: <sup>I</sup>	4
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
GEOL 1110G	Physical Geology	
PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab	
	Credits	17
	Total Credits	61

<sup>1</sup> Check with ET faculty advisor for recommended science course.

### Engineering Technology (Biomedical Equipment) - 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 Re	quirements	
Select one course from 12-14 credits. <sup>1,2</sup>	n four of the following six content areas for a total of	12-14
This degree requires	courses from Areas I, II, III, and IV.	
Area I: Communic	ation	
ENGL 1110G	Composition I (Core Requirement)	
Area II: Mathemat	ics	
MATH 1220G	College Algebra (Core Requirement) <sup>3</sup>	
Area III: Laborator	y Science (Core Requirement) <sup>4</sup>	
Select one from th	ne following:	
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
GEOL 1110G	Physical Geology	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
Area IV: Social/Be	havioral Sciences	
SOCI 1110G	Introduction to Sociology (Core Requirement)	
or PSYC 1110G	Introduction to Psychology	
General Education Elec	ctive	
COMM 1115G	Introduction to Communication	3
Core Degree Requirer	nents	
ЕТ104	Soldering Techniques	1
ET 120	Computation Software	3
ЕТ 153	Introduction to Computer Networks	3
ET 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	4
E T 283	Hardware PC Maintenance	3
ELT 103	Math Study Skills for Electronics <sup>5</sup>	2
<b>Biomedical Equipmer</b>	t Concentration Courses	
OEBM 140	Applied Human Biology for Biomedical Technology	3
OEBM 141	Medical Electronics and Safety in Healthcare	3
OEBM 200	Biomedical Internship <sup>6</sup>	4
OEBM 211	CBET Exam Preparation	1
OEBM 240	Medical Imaging Systems	3

#### 118 Fine Arts

OEE	3M 241	Advanced Medical Electronics	3
Tota	al Credits		63
1		ected must be from a different area and students Itiple courses in the same area.	

- <sup>2</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.
- <sup>3</sup> MATH 1220G College Algebra is required for the degree but students may need to take prerequisites to enter the course.
- <sup>4</sup> Check with ET faculty advisor for recommended science course.
- <sup>5</sup> 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.
- <sup>6</sup> Taken twice for a total of 4 credits. OEBM 200 Biomedical Internship requires special registration procedures.

### A Suggested Plan of Study

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

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

Course First Year Fall	Title	Credits
FT 104	Soldering Techniques	1
ET 120	Computation Software	3
E T 183	Applied DC Circuits	3
ELT 103	Math Study Skills for Electronics	1
MATH 1220G	College Algebra	3
OEBM 140	Applied Human Biology for Biomedical Technology	3
	Credits	14
Spring		
COMM 1115G	Introduction to Communication	3
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
OEBM 141	Medical Electronics and Safety in Healthcare	3
	Credits	16
Second Year		
Fall		
E T 246	Electronic Devices I	4
ЕТ 273	Fundamentals of Networking Communications	4
E T 283	Hardware PC Maintenance	3
OEBM 200	Biomedical Internship	2
OEBM 240	Medical Imaging Systems	3
	Credits	16
Spring		
ENGL 1110G	Composition I	4
OEBM 211	CBET Exam Preparation	1
OEBM 241	Advanced Medical Electronics	3
OEBM 200	Biomedical Internship	2
SOCI 1110G or PSYC 1110G	Introduction to Sociology or Introduction to Psychology	3

Select one from the fo	ollowing: <sup>1</sup>	4
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
GEOL 1110G	Physical Geology	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
	Credits	17
	Total Credits	63

<sup>1</sup> 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. 119)

### Graduates of this program will:

- 1. Utilize traditional and contemporary 2-dimensional and 3-dimensional design elements and principles in artistic creations.
- Apply the use of appropriate techniques in the execution of creative ideas.
- 3. Access, evaluate, and interpret ideas, images, and information, then effectively communicate the results of such investigation.
- 4. Articulate an understanding and appreciation for the political, social, spiritual, intellectual, and cultural contexts of art forms.

#### Arts and Sciences Division

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

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# 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 Re	quirements	
Area I: Communication	95	
English Composition -	Level 1	
ENGL 1110G	Composition I	4
English Composition -	Level 2	
ENGL 2210G	Professional & Technical Communication	3
or ENGL 2221G	Writing in the Humanities and Social Science	
COMM 1115G	Introduction to Communication	3
or COMM 1130G	Public Speaking	
Area II: Mathematics		
MATH 1130G	Survey of Mathematics <sup>1</sup>	3
or MATH 1220G	College Algebra	
Area III/IV: Laboratory	Science and Social/Behavioral Sciences	10-11
Select one course	from Area III: Laboratory Science (4 credits) <sup>2</sup>	
	from Area IV: Social/Behavioral Sciences (3	
Select one course	from either Area III or Area IV. (3-4 credits) $^2$	
Area V: Humanities		
Select one course from	m Area V: Humanities. <sup>2</sup>	3
Area VI: Creative/Fine	Arts	
ARTH 2110G	History of Art I <sup>3</sup>	3
General Education Elec	ctive	
Choose one course fr	om any General Education area. <sup>2</sup>	3-4
Core Degree Requiren		
ARTS 1240	Design I <sup>4</sup>	3
ARTS 1250	Design II <sup>4</sup>	3
ARTS 1310	Introduction to Ceramics	3
ARTS 1610	Drawing I <sup>4</sup>	3
ARTS 1711	Computer-Based Illustration	3
ARTH 2120G	History of Art II <sup>3</sup>	3
Option Area		
Select Ceramics/Scul	lpture or Drawing/Painting Option	9

<sup>1</sup> MATH 1220G College Algebra or MATH 1220G College Algebra is required for the degree but students may need to take prerequisites to enter the course.

- <sup>2</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.
- <sup>3</sup> ARTH 2110G History of Art I and ARTH 2120G History of Art II can be taken in any order.

It is recommended that students take Fine Arts core requirements, specifically ARTS 1610 Drawing I, ARTS 1240 Design I, ARTS 1250 Design II, and begin pathway requirements in their first year.

### **Ceramics/Sculpture Option**

4

Prefix	Title	Credits
ARTS 2610	Drawing II	3
ARTS 2839	Introduction to Sculpture	3
ARTS 1320	Ceramics I	3
Total Credits		9

### **Drawing/Painting Option**

Prefix	Title	Credits
ARTS 2610	Drawing II	3
ARTS 2630	Painting II	3
ARTS 2635	Painting III	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.

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

-	-	
Course	Title	Credits
First Year		
Fall		
ARTS 1610	Drawing I	3
ARTS 1240	Design I	3
ENGL 1110G	Composition I	4
Area IV: Social/Behavi	oral Sciences Course <sup>1</sup>	3
	Credits	13
Spring		
ARTS 2610	Drawing II	3
ARTS 1250	Design II	3
ARTS 1310	Introduction to Ceramics	3
ENGL 2210G	Professional & Technical Communication	3
or ENGL 2221G	or Writing in the Humanities and Social Science	
MATH 1130G or MATH 1220G	Survey of Mathematics <sup>2</sup> or College Algebra	3
	Credits	15
Second Year		
Fall		
ARTS 1630	Painting I	3
ARTH 2110G	History of Art I	3
COMM 1115G	Introduction to Communication	3
or COMM 1130G	or Public Speaking	
Area III: Laboratory Sc	sience Course <sup>1</sup>	4
General Education Ele	ctive (select any area) <sup>1</sup>	3-4
	Credits	16
Spring		
ARTS 2839	Introduction to Sculpture	3
ARTS 1320	Ceramics I	3
ARTH 2120G	History of Art II	3

Area V: Humanities Course <sup>1</sup>	3
Select one course from Area III or Area IV $^{1}$	3-4
Credits	16
Total Credits	60

- <sup>1</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.
- <sup>2</sup> MATH 1220G College Algebra or MATH 1130G Survey of Mathematics 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	Title	Credits
First Year		
Fall		
ARTS 1310	Introduction to Ceramics	3
ARTS 1240	Design I	3
ENGL 1110G	Composition I	4
Area IV: Social/Behavi		3
	Credits	13
Spring		
ARTS 2610	Drawing II	3
ARTS 1250	Design II	3
ARTS 1310	Introduction to Ceramics	3
Choose one from the f	following:	3
ENGL 2210G	Professional & Technical Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
MATH 1130G	Survey of Mathematics <sup>2</sup>	3
or MATH 1220G	or College Algebra	
	Credits	15
Second Year		
Fall		
ARTS 1630	Painting I	3
ARTH 2110G	History of Art I	3
COMM 1115G	Introduction to Communication	3
or COMM 1130G	or Public Speaking	
Area III: Laboratory Sc	sience Course <sup>1</sup>	4
General Education Ele	ctive (select any area) <sup>1</sup>	3-4
	Credits	16
Spring		
ARTS 2630	Painting II	3
ARTS 2635	Painting III	3
ARTH 2120G	History of Art II	3
Area V: Humanities Co	ourse <sup>1</sup>	3
Select one course from	m Area III or Area IV <sup>1</sup>	3-4
	Credits	16
	Total Credits	60

<sup>1</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.

MATH 1220G College Algebra or MATH 1130G Survey of Mathematics is required for the degree but students may need to take prerequisites to enter the course.

# **General Engineering**

2

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 common throughout the various engineering fields. The student must work closely with a faculty 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. 120)

### Graduates of this program will:

- 1. Identify, formulate, and solve complex engineering problems by applying principals of engineering, science, and mathematics.
- 2. Communicate effectively with a range of audiences.
- 3. Recognize ethical and professional responsibilities in engineering situations and make informed judgements in varied context.
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- 5. Conduct appropriate experimentation, analyze and interpret data, and use engineering insights to draw conclusions.
- 6. Practice new techniques to solve engineering problems.

### **Career & Technology Division**

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# **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 Re	quirements	
Area I: Communicatior	15	
English Composition -	Level 1	
ENGL 1110G	Composition I	4
English Composition -	Level 2	
ENGL 2210G	Professional & Technical Communication	3
Oral Communication		
COMM 1115G	Introduction to Communication	3
Area II: Mathematics		
MATH 1511G	Calculus and Analytic Geometry I <sup>1</sup>	4
Areas III/IV: Laborator	y Science and Social/Behavioral Sciences	11
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
Select one course credits) <sup>2</sup>	from Area IV: Social/Behavioral Sciences (3	
Area V: Humanities		
Select one course fro	m Area V: Humanities <sup>2</sup>	3
Area VI: Creative/Fine	Arts	
Select one course fro	m Area VI: Creative/Fine Arts <sup>2</sup>	3
General Education Elec	ctive	
MATH 1521G	Calculus and Analytic Geometry II	4
Core Degree Requirer	nents	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
or GEOL 1110G	Physical Geology	
DRFT 109	Computer Drafting Fundamentals	3
ECON 2110G	Macroeconomic Principles	3
ENGR 100G	Introduction to Engineering	3
ENGR 111	Mathematics for Engineering Applications	3
Select 6-8 credits from	m the following:	6-8
C E 233	Mechanics-Statics	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOL 1110G	Physical Geology	
MATH 2530G	Calculus III	
PHYS 1320G	Calculus -Based Physics II	
& PHYS 1320L	and Calculus -Based Physics II Lab	
Elective, to bring the	total credits to 60 <sup>3</sup>	3
Total Credits		60

1 MATH 1511G 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. 9) 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.

#### A grade of C- or better is required in all courses for the degree.

Course	Title	Credits
First Year		
Fall		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
ENGL 1110G	Composition I	4
ENGR 100G	Introduction to Engineering	3
MATH 1511G	Calculus and Analytic Geometry I <sup>1</sup>	4
	Credits	15
Spring		
CHEM 1225G or GEOL 1110G	General Chemistry II Lecture and Laboratory for STEM Majors or Physical Geology	4
DRFT 109	Computer Drafting Fundamentals	3
ENGR 111	Mathematics for Engineering Applications	3
MATH 1521G	Calculus and Analytic Geometry II	4
Select one course from	Area IV: Social/Behavioral Sciences <sup>2</sup>	3
	Credits	17
Second Year		
Fall		
ECON 2110G	Macroeconomic Principles	3
ENGL 2210G	Professional & Technical Communication	3
PHYS 1310G	Calculus -Based Physics I	4
& PHYS 1310L	and Calculus -Based Physics I Lab	
Select one course from	Area V: Humanities <sup>2</sup>	3
Select one (not already	r chosen) from the following:	3-4
C E 233	Mechanics-Statics	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOL 1110G	Physical Geology	
MATH 2530G	Calculus III	
PHYS 1320G	Calculus -Based Physics II	
& PHYS 1320L	and Calculus -Based Physics II Lab	
	Credits	16
Spring		
COMM 1115G	Introduction to Communication	3
	a Area VI: Creative/Fine Arts <sup>2</sup>	3
Elective Course <sup>3</sup>		3
	r chosen) from the following:	3-4
C E 233	Mechanics-Statics	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4

GEOL 1110G	Physical Geology		(
MATH 2530G	Calculus III		I
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab		I
	Credits	16	<u>:</u>
	Total Credits	64	e

<sup>1</sup> MATH 1511G Calculus and Analytic Geometry I is required for the degree but students may need to take prerequisites to enter the course.

- <sup>2</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.
- <sup>3</sup> 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.

# **Graphic Design**

The graphic design field is bursting with extremely diverse career possibilities that span all areas of industry including the New Mexico film industry. Today's graphic design courses reflect this new world of visual communication where talented graphic designers are now limited only by their imagination

The Associate of Applied Science in Graphic Design degree and certificate programs are designed to teach students the skills required for a career in the continually expanding graphic design industry. The courses required for this degree are both centered in business, marketing, digital art and technology. Students begin by learning the basic principles of art and design as they are training in the use of industry standard software to enhance their skills.

Graphic Design - Associate of Applied Science (p. 122)

Graphic Design - Certificate (p. 123)

#### Graduates of this program will:

- 1. Demonstrate competency in the use of Graphic Design software.
- Demonstrate competency in the design and production of promotional materials.
- 3. Generate appropriate visual solutions based on target marketing information.
- 4. Present ideas and concepts effectively and competently.
- 5. Analyze and critically interpret design solutions.
- 6. Visually demonstrate design solutions in a portfolio.

#### Arts and Sciences Division

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

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Website:

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### **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 Req	uirements	
Select one course from a 12-14 credits. <sup>1, 2</sup>	four of the following six content areas for a total of	12-14
5 1	ourses from Areas I, IV, and VI; students must e from one of the remaining areas to complete uirements.	
Area I: Communicat	ions	
ENGL 1110G	Composition I (Core Requirment)	
Area II: Mathematic	S	
Area III: Laboratory	Science	
Area IV: Social/Beha	avioral Sciences	
PSYC 1110G	Introduction to Psychology (Core Requirement)	
Area V: Humanities		
Area VI: Creative/Fi	ne Arts	
ARTH 1115G	Orientation in Art (Core Requirement)	
General Education Elect	ive	
COMM 1115G	Introduction to Communication	3
Core Degree Requirem	ents	
ARTS 1240	Design I	3
ARTS 1610	Drawing I	3
ENTR 1110	Entrepreneurship	3
FDMA 1120	Desktop Publishing	3
BUSA 1110	Intro to Business	3
FDMA 1210	Digital Video Production I	3
FDMA 1360	Web Design I	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
FDMA 1536	Advanced Computer Illustration	3
FDMA 1545	Introduction to Photography & Digital Imaging	3
FDMA 2325	Advanced Photoshop	3
FDMA 2287	Digital Design Studio	3
FDMA 2994	Portfolio Design & Development	3

MKTG 2110	Principles of Marketing	3
Total Credits		61

- <sup>1</sup> Each course selected must be from a different area and students cannot take multiple courses in the same area.
- <sup>2</sup> See the <u>General Education Section</u> (p. 9) 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.

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

Course First Year	Title	Credits
Fall		
ARTH 1115G	Orientation in Art	3
ARTS 1240	Design I	3
BUSA 1110	Intro to Business	3
ENGL 1110G	Composition I	4
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
	Credits	16
Spring		
ARTS 1610	Drawing I	3
COMM 1115G	Introduction to Communication	3
FDMA 1210	Digital Video Production I	3
FDMA 2325	Advanced Photoshop	3
PSYC 1110G	Introduction to Psychology	3
	Credits	15
Second Year		
Fall		
FDMA 1120	Desktop Publishing	3
FDMA 1535	Introduction to Illustrator	3
FDMA 1545	Introduction to Photography & Digital Imaging	3
MKTG 2110	Principles of Marketing	3
Select one course fr	rom Area II, III, or V <sup>1</sup>	3-4
	Credits	15
Spring		
ENTR 1110	Entrepreneurship	3
FDMA 1360	Web Design I	3
FDMA 1536	Advanced Computer Illustration	3
FDMA 2287	Digital Design Studio	3
FDMA 2994	Portfolio Design & Development	3
	Credits	15
	Total Credits	61

<sup>1</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.

# **Graphic Design - Certificate**

The Graphic Design certificate will prepare students for entry level employment in a broad range of industries.

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

# **Total Credits Required for Certificate: 18**

Prefix	Title	Credits
<b>Required Courses</b>		
FDMA 1120	Desktop Publishing	3
FDMA 1210	Digital Video Production I	3
ARTS 1240	Design I	3
FDMA 1360	Web Design I	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
Total Credits		18

### 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.

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

Course First Year Fall	Title	Credits
ARTS 1240	Design I	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
	Credits	9
Spring		
FDMA 1120	Desktop Publishing	3
FDMA 1210	Digital Video Production I	3
FDMA 1360	Web Design I	3
	Credits	9
	Total Credits	18

# **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. Contact <a href="mailto:swheeler@nmsu.edu">swheeler@nmsu.edu</a> for more information about online degrees.

Information Technology - Associate of Applied Science (p. 124)

#### Graduates of this program will:

- 1. Utilize the Internet, basic application and system software to complete projects.
- Configure various network devices and evaluate network standards, protocols, and cabling.
- 3. Install and configure multiple operating systems and manage software components.
- Develop, debug, and design documentation for a basic computer program.
- 5. Install, configure, troubleshoot, and maintain computer hardware components.
- 6. Identify general information technology security and PC forensics concepts.
- 7. Recognize ethical and professional responsibilities in engineering situations and make informed judgements in varied context.

#### **Career & Technology Division**

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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 Re	quirements	
Select one course from 12-14 credits. <sup>1, 2</sup>	four of the following six content areas for a total of	12-14
This degree requires o	ourses from Areas I, II, III, and IV.	
Area I: Communica	ition	
ENGL 1110G	Composition I (Core Requirement)	
Area II: Mathemati	cs	
MATH 1220G	College Algebra (Core Requirement) <sup>3</sup>	
Area III: Laboratory	v Science (Core Requirement) <sup>4</sup>	
Select one from the	e following:	
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
GEOL 1110G	Physical Geology	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
Area IV: Social/Beh		
SOCI 1110G	Introduction to Sociology (Core Requirement)	
	Introduction to Psychology	
General Education Elec	, .,	
COMM 1115G	Introduction to Communication	3
Core Degree Requiren	nents	
ET 104	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
Е Т 273	Fundamentals of Networking Communications	4
E T 283	Hardware PC Maintenance	3
E T 284	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

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

<sup>2</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.

<sup>3</sup> MATH 1220G College Algebra is required for the degree but students may need to take prerequisites to enter the course.

<sup>4</sup> 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.

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

Course First Year	Title	Credits
Fall		
E T 104	Soldering Techniques	1
ET 120	Computation Software	3
E T 153	Introduction to Computer Networks	3
ET 156	Introduction to Information Security	2
ENGL 1110G	Composition I	4
MATH 1220G	College Algebra	3
	Credits	16
Spring		
COMM 1115G	Introduction to Communication	3
ET 155	Network Operating Systems I	3
ET 182	Digital Logic	3
OECS 220	Database Application and Design	3
Select one from the fo		4
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
GEOL 1110G	Physical Geology	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab	
	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
SOCI 1110G	Introduction to Sociology	3
or PSYC 1110G	or Introduction to Psychology	
	Credits	17
	Total Credits	65

# **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<sup>™</sup> 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. 94)
- Business Management (Accounting/Bookkeeping) -Associate of Applied Science Degree (p. 97)
- Business Management (Administrative Support) Associate of Applied Science Degree (p. 98)
- Business Management (General Management) Associate of Applied Science Degree (p. 99)
- · Criminal Justice Associate Degree (p. 104)
- Leadership Skills -Certificate (p. 101)
- · Legal Assistant -Certificate (p. 126)
- · Paralegal Studies Associate of Applied Science Degree (p. 127)
- Prebusiness Associate Degree (p. 129)
- · Science Associate Degree (p. 133)

#### **Online Degrees/Certificates**

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Administrative Assistant: Joan Hale

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http://nmsua.edu/online-education/

Check with ET faculty advisor for recommended science course.

# **Paralegal Studies**

### What do paralegals and legal assistants do?

Help lawyers serve their clients. The Paralegal Studies and Legal Assistant programs both prepare student 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 Associate of Applied Science degree in Paralegal Studies, students may enter the career field and prepare to take the 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. 127)

Legal Assistant - Certificate (p. 126)

### Graduates of this program will:

- 1. Explain basic legal terms and concepts related to key areas of substantive law.
- 2. Apply professional written communication skills to legal memorandums, documents and pleadings.
- 3. Use legal research skills and apply relevant statutes, regulations and case law to given fact patterns or real-world scenarios.
- 4. Create legal memorandum, documents and pleadings based on an application of the law to given fact patterns or real-world scenarios.
- 5. Evaluate and express the ethical rules that govern lawyers and paralegals to given fact patterns or real-world scenarios.

#### Arts and Sciences Division

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# Legal Assistant - Certificate

The Legal Assistant Certificate prepares students in basic legal office skills. The courses apply to the Associate Degree in Paralegal Studies.

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

### **Total Credits Required for Certificate: 29**

Prefix	Title	Credits
ACCT 2110	Principles of Accounting I	3
or ACCT 200	A Survey of Accounting	
COMM 1115G	Introduction to Communication	3
or COMM 1130G	Public Speaking	
ENGL 1110G	Composition I	4
FYEX 1110	First-year Seminar	1
OATS 213	Word Processing I	3
PL S 160	Legal System for the Paralegal	3
PL S 190	Criminal Law for the Paralegal	3
or CJUS 1120	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 fo	ollowing:	3
MATH 1215	Intermediate Algebra	
MATH 1220G	College Algebra	
OATS 106	Business Mathematics	
Total Credits		29

### A Suggested Plan of Study - Legal Assistant 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.

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

Course	Title	Credits
First Year		
Fall		
ACCT 2110 or ACCT 200	Principles of Accounting I or A Survey of Accounting	3
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	3
ENGL 1110G	Composition I	4
FYEX 1110	First-year Seminar	1
PL S 160	Legal System for the Paralegal	3
	Credits	14
Spring		
OATS 213	Word Processing I ( (Keyboarding proficiency required))	3

PL S 190 or CJUS 1120	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
MATH 1215	Intermediate Algebra	
MATH 1220G	College Algebra	
OATS 106	Business Mathematics	
	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 Re	quirements	
Select one course from 12-14 credits. <sup>1, 2</sup>	four of the following six content areas for a total of	12-14
5 1	courses from Areas I, IV, and V; students must se from the remaining areas to complete General nts.	
Area I: Communica	ations	
ENGL 1110G	Composition I (Core Requirement)	
Area II: Mathemati	cs	
Area III: Laborator	y Science	
Area IV: Social/Bel	navioral Sciences	
POLS 1120G	American National Government (Core Requirement)	
Area V: Humanities	3	
Choose one from t	he following:	
PHIL 1115G	Introduction to Philosophy (Core Requirement)	
PHIL 2230G	Philosophical Thought (Core Requirement)	
PHIL 1120G	Logic, Reasoning, & Critical Thinking (Core Requirement)	
Area VI: Creative/F	ine Arts	
General Education Elec	tive	
COMM 1115G	Introduction to Communication	3
or COMM 1130G	Public Speaking	
Core Degree Requiren	nents	
ACCT 2110	Principles of Accounting I	3
OATS 213	Word Processing I	3
FYEX 1110	First-year Seminar	1
ENGL 2210G	Professional & Technical Communication	3
or ENGL 2221G	Writing in the Humanities and Social Science	
PL S 160	Legal System for the Paralegal	3
PL S 190	Criminal Law for the Paralegal	3

or CJUS 1120	Criminal Law	
PL S 200	Legal Ethics for the Paralegal	3
PL S 221	Internship I <sup>3</sup>	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
Choose one from th	e following:	3
BMGT 240	Human Relations	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
Paralegal Electives		
Select from the follo	owing:	6
CJUS 2120	Criminal Courts and Procedure	
PL S 203	Immigration Law	
PL S 222	Internship II <sup>3</sup>	
PL S 277	Family Law for the Paralegal	
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. 9) of the catalog for a full list of courses.
- 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**

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

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

Course	Title	Credits
First Year		
Fall		
ACCT 2110 or ACCT 200	Principles of Accounting I or A Survey of Accounting	3
COMM 1130G or COMM 1115G	Public Speaking or Introduction to Communication	3
ENGL 1110G	Composition I	4
FYEX 1110	First-year Seminar	1
PL S 160	Legal System for the Paralegal	3
POLS 1120G	American National Government	3
	Credits	17
Spring		
OATS 213	Word Processing I	3
PL S 190 or CJUS 1120	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 from	n Area II, III, or VI <sup>1</sup>	3-4
	Credits	15

#### Second Year

Fall		
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 <sup>2</sup>		3
Choose one from the	following:	3
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 2230G	Philosophical Thought	
	Credits	14
Spring		
ENGL 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science	3
PL S 278	Litigation for the Paralegal	3
PL S 279	Legal Research and Writing for the Paralegal II	3
Choose one from the	following:	3
BMGT 240	Human Relations	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
Elective Course <sup>2</sup>		3
	Credits	15
	Total Credits	61

<sup>1</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.

<sup>2</sup> Select from CJUS 2120, 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 is 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. 128)

#### Graduates of this program will:

- 1. Demonstrate camera mastery.
- 2. Demonstrate proper image adjustment and correction techniques.
- 3. Practice effective composition techniques.
- 4. Illustrate the principles of photographic lighting.
- 5. Apply techniques for modifying light.
- 6. Demonstrate image quality appropriate for a portfolio.

#### Arts and Sciences Division

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# 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.

### **Total Credits Required for Certificate: 25**

Prefix	Title	Credits
ARTH 1115G	Orientation in Art	3
ARTS 1520	Digital Media I	3
ARTS 2410	Black & White Photography	3
ARTS 2430	Photographic Portraiture	3
ARTS 2440	Photo Finishing & Presentation	2
ENGL 1110G	Composition I	4
FDMA 1545	Introduction to Photography & Digital Imaging	3
FDMA 2326	Digital Photography and Imaging II	3
FYEX 1110	First-year Seminar	1
Total Credits		25

### **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		
ARTS 1520	Digital Media I	3
FDMA 1545	Introduction to Photography & Digital Imaging	3
FYEX 1110	First-year Seminar	1
	Credits	7

#### Spring

ARTH 1115G	Orientation in Art	3
ARTS 2410	Black & White Photography	3
	Credits	6
Second Year		
Fall		
FDMA 2326	Digital Photography and Imaging II	3
ARTS 2430	Photographic Portraiture	3
	Credits	6
Spring		
ENGL 1110G	Composition I	4
ARTS 2440	Photo Finishing & Presentation	2
	Credits	6
	Total Credits	25

### **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. Contact <u>swheeler@nmsu.edu</u> for more information about online degrees.

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. 129)

#### Graduates of this program will:

- 1. Communicate effectively and professionally, both orally and in writing.
- 2. Explain social responsibility and ethics as they apply to all business stakeholders.
- 3. Explain relevant theories and principles associated within the business environment.
- Describe general business concepts in the functional areas of business.
- 5. Analyze information using critical thinking and decision-making skills to make informed business decisions.
- 6. Utilize business computer applications, and specifically spreadsheet and database software, for quantitative business analysis.

#### **Career & Technology Division**

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#### Alamogordo, NM 88310

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### 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 Area I General Education courses; ECON 2110G, ECON 2120G, and all Core Degree 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 Re	quirements	
Area I: Communication	S	
A grade of C- or be courses.	tter is required in all Area I General Education	
English Composition L	evel I	
ENGL 1110G	Composition I	4
English Composition L	evel II	
ENGL 2210G	Professional & Technical Communication	3
Oral Communication		
COMM 1115G	Introduction to Communication	3
or COMM 1130G	Public Speaking	
Area II: Mathematics		
MATH 1220G	College Algebra <sup>1</sup>	3
Areas III/IV: Laboratory	y Science and Social/Behavioral Sciences	10
A grade of C- or bette	r is required in ECON 2110G and ECON 2120G	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
Select one course	from Area III: Laboratory Science (4 credits) <sup>3</sup>	
Area V: Humanities		
Select one course fro	m Area V: Humanities. <sup>3</sup>	3
Area VI: Creative/Fine	Arts	
Select one course fro	m Area VI: Creative/Fine Arts <sup>3</sup>	3
General Education Elec	ctive	
MATH 1430G	Applications of Calculus I	3
Core Degree Requirer	nents (A grade of C- or better is required)	
ACCT 2110	Principles of Accounting I	3

Total Credits		60
Electives, to bring the total credits to 60 $^{5}$		13
MATH 1350G	Introduction to Statistics	3
BUSA 1110	Intro to Business	3
BCIS 1110	Introduction to Information Systems	3
ACCT 2120	Principles of Accounting II $^4$	3

**Total Credits** 

- 1 MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.
- 2 ECON should not be taken by beginning freshmen or students without algebra skills.
- 3 See the General Education Section (p. 9) 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.

### A grade of C- or better required in Area I General Education courses; ECON 2110G, ECON 2120G, and all Core Degree Requirements.

The only courses that may be taken under the S/U option are electives.

Course	Title	Credits
First Year		
Fall		
BCIS 1110	Introduction to Information Systems $^4$	3
COMM 1115G or COMM 1130G	Introduction to Communication <sup>4</sup> or Public Speaking	3
ENGL 1110G	Composition I <sup>4</sup>	4
Select one course from	n Area VI: Creative/Fine Arts <sup>1</sup>	3
Elective Course <sup>2</sup>		3
	Credits	16
Spring		
ENGL 2210G	Professional & Technical Communication <sup>4</sup>	3
MATH 1220G	College Algebra <sup>3</sup>	3
Select one course from	n Area V: Humanities <sup>1</sup>	3
Elective Courses <sup>2</sup>		7
	Credits	16
Second Year		
Fall		
ACCT 2110	Principles of Accounting I $^4$	3
BUSA 1110	Intro to Business <sup>4</sup>	3
ECON 2110G	Macroeconomic Principles <sup>4</sup>	3
MATH 1430G	Applications of Calculus I	3
Select one course from	n Area III: Laboratory Science <sup>1</sup>	4
	Credits	16

Spring		
ACCT 2120	Principles of Accounting II <sup>4</sup>	3
ECON 2120G	Microeconomics Principles <sup>4</sup>	3
MATH 1350G	Introduction to Statistics <sup>4</sup>	3
Elective Course <sup>2</sup>		3
	Credits	12
	Total Credits	60

- See the General Education Section (p. 9) 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 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.
- A grade of C- or better is required.

# **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. 132)

Photo Voltaic Entry Level Grid-Tie - Certificate (p. 131)

Advanced Renewable Energy Systems - Certificate (p. 131)

### Graduates of this program will:

- 1. Communicate clearly and accurately, verbally and written, information about Renewable Energy technology.
- 2. Demonstrate knowledge of different methods of safe practices required by the national electric code NEC and/or appropriate personal protective equipment according to OSHA standards.
- 3. Define basic terminology and identify key instruments necessary for measurement of energy generated and key instruments for troubleshooting and maintenance.
- 4. Draw and prepare electric diagrams to assist in proper identification of systems including inputs and outputs.

- 5. Identify major components of systems and troubleshoot problem areas
- 6. Demonstrate the ability to choose correct system and installation based on environment and customer requirements.

**Career & Technology Division** 

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### 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.

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

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.

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

Course First Year	Title	Credits
Fall		
TCEN 221	Roofing Materials and Methods <sup>1</sup>	3
TCEN 251	Advanced Photo Voltaic On/Off Grid Installation <sup>1</sup>	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 <sup>1</sup>	3
TCEN 246	Building Weatherization & Auditor Fundamentals <sup>1</sup>	3
TCEN 252	NABCEP Entry-Level Exam Review	2
	Credits	11
	Total Credits	19

1 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.

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

### 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	Title	Credits
First Year		
Fall		
OEEM 101	CPR for the Health Care Professional	1
TCEN 111	Basic Electrical Principles I, DC Circuits <sup>1</sup>	4
TCEN 112	PV Power Generation Design Fundamentals <sup>1</sup>	3

TCEN 113	OSHA 10 Hour Construction Hazard Identifications	1
	Credits	9
Spring		
TCEN 121	Basic Electrical Principles II, AC Circuits <sup>1</sup>	4
TCEN 222	Photo Voltaic Grid Tie Installation <sup>1</sup>	4
TCEN 223	Photo Voltaic National Electrical Code Principles <sup>1</sup>	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: 62**

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 62 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education Red	quirements	
Select one course from 12-14 credits. <sup>1, 2</sup>	four of the following six content areas for a total of	12-14
5	ourses from Areas I, II, and III; students must e from the remaining areas to complete General ts.	
Area I: Communica	tions	
COMM 1130G	Public Speaking (Core Requirement)	
or COMM 11150	G Introduction to Communication	
Area II: Mathematio	CS	
MATH 1220G	College Algebra (Core Requirement) <sup>3</sup>	
Area III: Laboratory	Science	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
or PHYS 1115G	Survey of Physics with Lab	
Area IV: Social/Beh	avioral Sciences	
Area V: Humanities		
Area VI: Creative/F	ine Arts	
General Education Elec	tive	
Select one couse from	any General Education area. <sup>2</sup>	3-4
Core Degree Requirem	ents	
OEEM 101	CPR for the Health Care Professional	1
OETS 120	Business Fundamentals	3
TCEN 101	Energy for the Next Generation	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
TCEN 254	Renewable Energy Internship <sup>4</sup>	4
Total Credits		62

- 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. 9) of the catalog for a full list of courses.
- 3 MATH 1220G 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.

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

Course First Year Fall	Title	Credits
MATH 1220G	College Algebra <sup>1</sup>	3
OEEM 101	CPR for the Health Care Professional	1
TCEN 101	Energy for the Next Generation	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
	Credits	15
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 1120G or PHYS 1115G	Introduction to Chemistry Lecture and Laboratory (non majors) or Survey of Physics with Lab	4
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	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		
General Education E	lective (choose from any area) <sup>2</sup>	3-4
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 fr	om either Area IV, V, or VI $^{2}$	3
	Credits	16
	Total Credits	62

- <sup>1</sup> MATH 1220G College Algebra is required for the degree but students may need to take prerequisites to enter the course.
- <sup>2</sup> See the <u>General Education Section</u> (p. 9) 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. 133)

#### Graduates of this program will:

- Demonstrate proper use of laboratory equipment to collect relevant and quality data.
- Demonstrate mathematical techniques to evaluate and solve scientific problems.
- 3. Evaluate the validity of information from a scientific perspective.
- Demonstrate effective communication, in a scientifically appropriate manner, about scientific ideas and topics, in oral and/or written formats.
- 5. Carry out the scientific method to formulate questions, analyze information/data and draw conclusions.
- Demonstrate the ability to use techniques, skills, and scientific tools necessary for inquiry.

#### Arts and Sciences Division

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# **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 Re	quirements	
Area I: Communication	s	
English Composition - I	Level 1	
ENGL 1110G	Composition I	4
English Composition - I	Level 2	
ENGL 2210G	Professional & Technical Communication	3
or ENGL 2221G	Writing in the Humanities and Social Science	
Oral Communication		
COMM 1115G	Introduction to Communication	3
or COMM 1130G	Public Speaking	
Area II: Mathematics		
Choose one from the	following:	3-4
MATH 1220G	College Algebra <sup>1</sup>	
MATH 1250G	Trigonometry & Pre-Calculus <sup>1</sup>	
MATH 1511G	Calculus and Analytic Geometry I <sup>1</sup>	
Areas III/IV: Laboratory	Science and Social/Behavioral Sciences	10
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors (Core Requirement)	
ECON 2110G	Macroeconomic Principles (Core Requirement)	
Select one addition Sciences <sup>2</sup>	nal course from Area IV: Social/Behavioral	
Area V: Humanities		
Select one course from list. <sup>2</sup>	n Area V: Humanities of the General Education	3
Area VI: Creative/Fine	Arts	
Select one course from Education list. <sup>2</sup>	n Area VI: Creative/Fine Arts of the General	3
General Education Elec	tive	
Select one course from	m any area of the General Education list. $^2$	3-4
Core Degree Requiren	nents	
	redits of Laboratory Science courses, to bring the ce requirements to 16 credits <sup>3</sup>	12

This degree requires CHEM 1216G 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. <sup>4</sup>	15-16
Total Credits	60

- <sup>1</sup> MATH 1220G College Algebra, MATH 1250G Trigonometry & Pre-Calculus, or MATH 1511G Calculus and Analytic Geometry I is required for the degree but students may need to take prerequisites to enter the course.
- <sup>2</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.
- <sup>3</sup> 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 <u>General Education</u> <u>Course</u> (p. 9) list. Work with advisor to select appropriate courses to support the chosen bachelor's degree program.
- <sup>4</sup> 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**

	5	
Prefix	Title	Credits
BIOL 2110G & BIOL 2110L	Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Cellular and Molecular Biology Laboratory	4
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	4
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
MATH 1511G	Calculus and Analytic Geometry I	4
MATH 1521G	Calculus and Analytic Geometry II	4
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	4
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab	4

### Recommended Courses for Students Pursuing Environmental Science

Prefix	Title	Credits
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	4
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	4
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
CHEM 2115	Survey of Organic Chemistry and Laboratory	4
ENVS 1110G	Environmental Science I	4

GEOL 1110G	Physical Geology	4
MATH 1511G	Calculus and Analytic Geometry I	4
MATH 1521G	Calculus and Analytic Geometry II	4
PHYS 1310G	Calculus -Based Physics I	4
& PHYS 1310L	and Calculus -Based Physics I Lab	

### **Recommended Courses for Students Pursuing Geology**

Title	Credits
Detectates of Distance Distinguishing Factories and	
Evolution and Principles of Biology: Biodiversity, Ecology, and and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	4
General Chemistry II Lecture and Laboratory for STEM Majors	4
Human Geography	3
Physical Geology	4
Calculus and Analytic Geometry I	4
Calculus and Analytic Geometry II	4
Algebra-Based Physics I and Algebra-Based Physics I Lab	4
Algebra-Based Physics II and Algebra-Based Physics II Lab	4
	and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory General Chemistry II Lecture and Laboratory for STEM Majors Human Geography Physical Geology Calculus and Analytic Geometry I Calculus and Analytic Geometry II Algebra-Based Physics I and Algebra-Based Physics I Lab Algebra-Based Physics II

# Recommended Courses for Students Pursuing Wildlife Science

Prefix	Title	Credits
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	4
BIOL 2310 & 2310L	Microbiology and Microbiology Lab	4
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	4
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
FWCE 1110G	Introduction to Natural Resources Management	4
FWCE 2110	Principles of Fish and Wildlife Management	3
GEOL 1110G	Physical Geology	4
MATH 1430G or MATH 1511G	Applications of Calculus I Calculus and Analytic Geometry I	3
PHYS 1115G	Survey of Physics with Lab	4
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	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	Title	Credits
First Year		
Fall		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
ENGL 1110G	Composition I	4
Choose one from the following:		3-4

MATH 1220G	College Algebra <sup>1</sup>	
MATH 1250G	Trigonometry & Pre-Calculus <sup>1</sup>	
MATH 1511G	Calculus and Analytic Geometry I <sup>1</sup>	
Laboratory Science C	ourse <sup>2</sup>	4
	Credits	15
Spring		
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	3
Elective Course <sup>3</sup>		4
Laboratory Science C	ourse <sup>2</sup>	4
Area IV: Social/Behav	ioral Sciences Course <sup>4</sup>	3
	Credits	14

### Second Year

Fall		
ECON 2110G	Macroeconomic Principles	3
Elective Course <sup>3</sup>		4
ENGL 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science	3
Area V: Humanities Co	urse <sup>4</sup>	3
Laboratory Science Co	ourse <sup>2</sup>	4
	Credits	17
Spring		
Elective Course <sup>3</sup>		4
General Education Ele	ctive <sup>4</sup>	3-4
Elective Course <sup>3</sup>		3
Area VI: Creative/Fine	Arts Course <sup>4</sup>	3
	Credits	14
	Total Credits	60

<sup>1</sup> MATH 1220G College Algebra, MATH 1250G Trigonometry & Pre-Calculus, or MATH 1511G Calculus and Analytic Geometry I is required for the degree but students may need to take prerequisites to enter the course.

- <sup>2</sup> It is strongly recommended to follow recommendations on the <u>Degree Requirements tab</u> (p. 133) for guidance in lab science and elective choices. Work with advisor to select appropriate courses to support the chosen bachelor's degree program.
- <sup>3</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.
- <sup>4</sup> 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**

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 1120 level in any second language. If the student is a native speaker or has taken one or two years of a second language in high school, see an advisor for information in fulfilling the requirement.

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. 135)

#### Graduates of this program will:

- 1. Use critical thinking, skeptical inquiry, and the scientific method to weigh evidence and solve problems related to the social and behavioral sciences.
- 2. Apply the ethical and professional values that are the underpinnings of the social and behavioral sciences.
- 3. Use technology to research, communicate, and engage in problem solving.
- 4. Write and speak effectively in a professional environment where you will be expected to interact and successfully work with others.
- 5. Articulate a basic understand of the social work profession, its history, career opportunities, and contemporary issues facing social workers in the United States today.
- 6. Discuss the impact of cultural factors, diversity and dimensions of identity and environment as it relates to the field of social work.
- Describe the role of case management in generalist social work practice.

#### **Career & Technology Division**

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# **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 R	equirements	
Area I: Communicatio	ns	
English Composition -	Level 1	
ENGL 1110G	Composition I	4
English Composition -	Level 2	
ENGL 2210G	Professional & Technical Communication	3
or ENGL 2221G	Writing in the Humanities and Social Science	
Oral Communication		
COMM 1115G	Introduction to Communication	3
or COMM 1130G	Public Speaking	
Area II: Mathematics		
MATH 1220G	College Algebra <sup>1</sup>	3
Areas III/IV: Laborator	y Science and Social/Behavioral Sciences	10
PSYC 1110G	Introduction to Psychology	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
Select one course	e from either Area III or Area IV (3-4 credits)	
Area V: Humanities		
PHIL 1115G	Introduction to Philosophy	3
Area VI: Creative/Fine	Arts	
Select one course fro	om Area VI: Creative/Fine Arts <sup>2</sup>	3
General Education Ele	ctive	
SOWK 2110G	Introduction to Human Services & Social Work (Core Requirement)	3
Core Degree Require	ments	
BCIS 1110	Introduction to Information Systems	3
CEPY 1120G	Human Growth and Behavior	3
HMSV 2110	Case Management	3
MATH 1350G	Introduction to Statistics	3
PSYC 2221	Applied Psychology	3
or PSYC 2230	Psychology of Adjustment	
SOCI 1110G	Introduction to Sociology	3
or SOCI 2310G	Contemporary Social Problems	
Second Language Rec	quirement	8
SPAN 1110	Spanish I	
SPAN 1120	Spanish II	
OR select two ser	nesters of a second language	
Electives, to bring th	e total credits to 60 <sup>3</sup>	2-3
Total Credits		60

MATH 1220G College Algebra is required for the degree but students may need to take prerequisites to enter the course.

<sup>2</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.

<sup>3</sup> 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 First Year	Title	Credits
Fall		
BCIS 1110	Introduction to Information Systems	3
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	4
ENGL 1110G	Composition I	4
SOWK 2110G	Introduction to Human Services & Social Work	3
	Credits	14
Spring		
CEPY 1120G	Human Growth and Behavior	3
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	3
ENGL 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science	3
PSYC 1110G	Introduction to Psychology	3
SOCI 1110G or SOCI 2310G	Introduction to Sociology or Contemporary Social Problems	3
	Credits	15
Second Year		
Fall		
MATH 1220G	College Algebra <sup>2</sup>	3
PHIL 1115G	Introduction to Philosophy	3
PSYC 2221 or PSYC 2230	Applied Psychology or Psychology of Adjustment	3
SPAN 1110	Spanish I <sup>3</sup>	4
Select one course from	n either Area III or Area IV (3-4 credits)	3-4
	Credits	16
Spring		
HMSV 2110	Case Management	3
MATH 1350G	Introduction to Statistics	3
SPAN 1120	Spanish II <sup>3</sup>	4
Elective Course <sup>4</sup>		2-3
Select one course from	n Area VI: Creative/Fine Arts	3
	Credits	15
	Total Credits	60

<sup>1</sup> See the <u>General Education Section</u> (p. 9) of the catalog for a full list of courses.

<sup>2</sup> MATH 1220G College Algebra is required for the degree but students may need to take prerequisites to enter the course.

<sup>3</sup> Students are recommended to take SPAN 1110 Spanish I and SPAN 1120 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-bycase basis and students should discuss elective requirements with their advisor.

# Welding

The Welding Certificiate prepares students for a career as a welder in the areas of maintenance, construction, manufacturing, or to further their education toward a four-year degree program. Emphasizes the development of real, hands-on welding, layout, and fitting skills with extensive exposure to welding principles and practices. In addition to covering SMAW, GMAW, and GTAW welding processes, course work also examines how to operate the plasma arc cutting and oxy/fuel cutting processes, and exposes students to the areas of metallurgy and weld inspection procedures.

Welding - Certificate (p. 137)

### Graduates of this program will:

- 1. Analyze cutting and welding processes to identify and apply appropriate safe work practices.
- 2. Communicate effectively within the industrial welding profession.
- 3. Recognize, set-up, and operate hand and power tools common to the welding and fabricating trades.
- 4. Interpret industrial 2-D and 3-D drawings and symbols.
- 5. Operate electrical and thermal cutting processes.
- 6. Set-up and perform welding operations with the appropriate process on various metals in different situations.
- 7. Analyze, in relation to specific welding processes, welding flaws, weld integrity, and appearance.
- 8. Develop and analyze weld test results using the American Welding Society's (AWS) standard test procedures.

### **Career & Technology Division**

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

**Division Head: Cathy Aguilar-Morgan** 

Administrative Assistant: **Michelle Nelson** 

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### Website:

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

# Welding - Certificate

The Welding certificate prepares students for a career as a welder in the areas of maintenance, construction, manufacturing, or to further their education toward a four-year degree program.

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

# **Total Credits Required for Certificate: 21**

Prefix	Title	Credits
WELD 100	Structural Welding I	6
WELD 102	Welding Fundamentals	3
WELD 110	Blueprint Reading (Welding)	3
WELD 130	Introduction to GMAW MIG)	3
WELD 140	Introduction to GTAW TIG)	3
WELD 160	Introduction to SAW and FCAW	3
Total Credits		21

Total Credits

### A Suggested Plan of Study - Welding 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.

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

Course First Year Fall	Title	Credits
WELD 100	Structural Welding I	6
WELD 102	Welding Fundamentals	3
WELD 130	Introduction to GMAW MIG)	3
	Credits	12
Spring		
WELD 110	Blueprint Reading (Welding)	3
WELD 140	Introduction to GTAW TIG)	3
WELD 160	Introduction to SAW and FCAW	3
	Credits	9
	Total Credits	21

# **Course Descriptions**

Note: Not all courses listed below are taught at the NMSU Alamogordo Campus.

### Α

- <u>A S-ARTS AND SCIENCES</u> (p. 140)
- ACCT-ACCOUNTING (p. 140)
- · ACES-AGRI, CONSUMER & ENV SCIE (p. 141)
- <u>AEEC-AGRICULTURAL ECON/ECON</u> (p. 141)
- · AERO-AEROSPACE STUDIES (p. 141)
- AERT-AEROSPACE TECHNOLOGY (p. 142)
- AGRO-AGRONOMY (p. 143)
- <u>AHS-ALLIED HEALTH SCIENCE</u> (p. 143)
- ANSC-ANIMAL SCIENCE (p. 143)
- ANTH-ANTHROPOLOGY (p. 145)
- ARCH-ARCHITECTURE (p. 145)

- <u>ART-ART</u> (p. 147)
- ARTH-ART HISTORY (p. 147)
- ARTS-ART STUDIO (p. 147)
- ASTR-ASTRONOMY (p. 149)
- AUTO-AUTOMOTIVE TECHNOLOGY (p. 150)
- AVIM-AVIATION MAINTENANCE (p. 152)
- AXED-AGRICULTURAL EXTN EDUC (p. 152)

### B

- <u>B A-BUSINESS ADMINISTRATION</u> (p. 153)
- BCHE-BIOCHEMISTRY (p. 153)
- BCIS-BUSINESS COMPUTER SYSTEMS (p. 153)
- BCT-BUILDING CONSTRUCTION TECH (p. 153)
- <u>BFIN-BUSINESS FINANCE</u> (p. 155)
- <u>BIOL-BIOLOGY</u> (p. 155)
- BLAW-BUSINESS LAW (p. 156)
- BLED-BILINGUAL EDUCATION (p. 156)
- BMGT-BUSINESS MANAGEMENT (p. 157)
- BOT-BUSINESS OFFICE TECHNOLOGY (p. 159)
- BUSA-BUSINESS ADMINISTRATION (p. 159)

### C

- <u>C E-CIVIL ENGINEERING</u> (p. 159)
- <u>C S-COMPUTER SCIENCE</u> (p. 159)
- CCDE-DEVELOPMENTAL ENGLISH (p. 160)
- CCDM-DEVELOPMENTAL MATHEMATICS (p. 160)
- CCDR-DEVELOPMENTAL READING (p. 161)
- CCDS-DEVELOPMENTAL SKILLS (p. 161)
- CEPY-COUNSELING & EDUCATIONAL PSYCHOLOGY (p. 161)
- CHEF-CULINARY ARTS (p. 162)
- CHEM-CHEMISTRY (p. 164)
- <u>CHIN-CHINESE</u> (p. 165)
- CHME-CHEMICAL & MATERIALS ENGR (p. 165)
- <u>CHSS COMM HEALTH/SOC SRVCS</u> (p. 166)
- CJUS-CRIMINAL JUSTICE (p. 166)
- COMM-COMMUNICATION (p. 166)
- CSEC-CYBERSECURITY (p. 167)
- CTEC-CYBER TECHNOLOGY (p. 167)
- CTFM-CLTHNG/TXTLS/FSHN MRCHDSG (p. 169)

### D

- <u>DANC-DANCE</u> (p. 169)
- DAS-DENTAL ASSISTING (p. 171)
- DHYG DENTAL HYGIENE/HYGIENIST (p. 172)
- DMS-DIAGNOSTIC MED SONOGRAPHY (p. 174)
- DRFT-DRAFTING (p. 176)

### E

- <u>E E-ELECTRICAL ENGINEERING</u> (p. 179)
- <u>E T-ENGINEERING TECHNOLOGY</u> (p. 179)
- ECED-EARLY CHILDHOOD EDUCATION (p. 182)
- ECON-ECONOMICS (p. 184)

- EDLT-EDUCATIONAL TECHNOLOGY (p. 184)
- EDUC-EDUCATION (p. 184)
- ELAD-EDUCATIONAL LEADERSHIP ADMINISTRATION (p. 185)
- ELT ELECTRONICS TECHNOLOGY (p. 185)
- <u>ELWK-ELECTRICAL LINEWORKER</u> (p. 186)
- <u>ENGL-ENGLISH</u> (p. 187)
- <u>ENGR-ENGINEERING</u> (p. 189)
- <u>ENTR-ENTREPRENEURSHIP</u> (p. 189)
- ENVS-ENVIRONMENTAL SCIENCE (p. 189)
- EPWS-ETMLGY/PLNT PTHLGY/WD SCI (p. 189)

### F

- FCSC-FAMILY AND CONSUMER SCIENCES (p. 189)
- FCST-FAMILY AND CHILD STUDIES (p. 190)
- FDMA-FILM & DIGITAL MEDIA ARTS (p. 190)
- FIRE-FIRE INVESTIGATION (p. 194)
- FREN-FRENCH (p. 196)
- FSTE-FOOD SCIENCE & TECHNOLOGY (p. 197)
- FWCE-FISH, WILDLF, CONSERV ECOL (p. 197)
- FYEX-FIRST YEAR EXPERIENCE (p. 197)

### G

- GENE-GENETICS (p. 198)
- GEOG-GEOGRAPHY (p. 198)
- <u>GEOL-GEOLOGY</u> (p. 199)
- GNDR-WOMEN'S STUDIES (p. 199)
- <u>GRMN-GERMAN</u> (p. 199)

### Η

- HIST-HISTORY (p. 200)
- HIT-HEALTH INFO TECHNOLOGY (p. 201)
- HLED-HEALTH EDUCATION (p. 202)
- HMSV-HUMAN SERVICES (p. 202)
- <u>HNRS-HONORS</u> (p. 202)
- HORT-HORTICULTURE (p. 204)
- HOST-HOSPITALITY AND TOURISM (p. 204)
- HRTM-HOTEL/RESTRNT/TOURISM MGT (p. 205)
- <u>HVAC-HEATING/AC/REFRIGERATION</u> (p. 206)

### I

- <u>I E-INDUSTRIAL ENGINEERING</u> (p. 207)
- INMT INDUSTRIAL MAINTENANCE (p. 207)
- INTEGRATED NATURAL SCIENCES (p. 208)

### J

- JAPN-JAPANESE (p. 208)
- JOUR-JOURNALISM (p. 209)

- L SC-LIBRARY SCIENCE (p. 209)
- LANG-LANGUAGE (p. 211)
- LAWE-LAW ENFORCEMENT (p. 211)

- LIBR-LIBRARY SCIENCE (p. 212)
- LING-LINGUISTICS (p. 212)

### Μ

- <u>M E-MECHANICAL ENGINEERING</u> (p. 212)
- M SC-MILITARY SCIENCE (p. 213)
- MAT-AUTOMATION & MANUFACTURING (p. 213)
- MATH-MATHEMATICS (p. 214)
- MGMT-MANAGEMENT (p. 216)
- MKTG-MARKETING (p. 216)
- <u>MUSC-MUSIC</u> (p. 216)

### Ν

- NA NURSING ASSISTANT (p. 218)
- <u>NAV-NAVAJO</u> (p. 220)
- NGEC-NATURAL GAS ENGINE COMP (p. 220)
- <u>NURS-NURSING</u> (p. 220)
- NUTR-NUTRITION (p. 224)

### 0

- OATS-OFFICE ADMINISTRATION TECHNOLOGY SYSTEMS (p. 224)
- <u>OEBM-BIOMEDICAL TECHNOLOGY</u> (p. 226)
- <u>OECS-COMPUTER TECHNOLOGY</u> (p. 227)
- OEEM- PARAMEDIC (p. 229)
- OEET- ELECTRICAL TRADES (p. 232)
- OEGR-DIGITAL GRAPHIC TECH (p. 232)
- OEGS-GEOGRAPHIC INFO SYS (p. 232)
- OETS-TECHNICAL STUDIES (p. 233)

### Ρ

- PHED-PHYSICAL EDUCATION (p. 233)
- PHIL-PHILOSOPHY (p. 234)
- PHLS-PUBLIC HEALTH SCIENCES (p. 234)
- <u>PHYS-PHYSICS</u> (p. 234)
- PL-S-PARALEGAL SERVICES (p. 236)
- POLS-POLITICAL SCIENCE (p. 237)
- PORT-PORTUGUESE (p. 238)
- PSYC-PSYCHOLOGY (p. 238)

### R

- RADT-RADIOLOGIC TECHNOLOGY (p. 238)
- RESP RESPIRATORY THERAPY (p. 239)
- <u>RGSC-RANGE SCIENCE</u> (p. 240)

### S

- SIGN-SIGN LANGUAGE (p. 241)
- SMET-SCIENCE/MATH/ENG/TECH (p. 241)
- SOCI-SOCIOLOGY (p. 241)
- SOIL-SOIL (p. 241)
- SOWK-SOCIAL WORK (p. 242)
- <u>SPAN-SPANISH</u> (p. 242)
- SPED-SPECIAL EDUCATION (p. 243)
- SPHS-SPEECH & HEARING SCIENCE (p. 243)

- SPMD-SPORTS MEDICINE (p. 243)
- SUR-SURVEYING (p. 244)
- SURG-SURGICAL TECHNOLOGY (p. 244)

### Τ

- TCEN-ENVIRONMENTAL/ENERGY TECH (p. 245)
- <u>THEA-THEATER</u> (p. 247)

### W

- WATR-WATER UTILITIES (p. 248)
- WELD-WELDING TECHNOLOGY (p. 249)

New Mexico State University is currently undergoing a renumbering initiative to align with a State regulatory change. While this process is occurring courses will appear in two ways, a four-digit number or a threedigit number.

### **Course Numbering:**

### **Four-digit Course**

ASTR 1120G The Planets (4 credits (3+3P))

- **Course Prefix-** the four letter code that represents the subject of the course and where the course can be located in the Courses A-Z list below.
- · Course number- (1120 ) indicates the course is a freshman course.
- Course Title- will appear after the prefix and number
- Suffix- will appear at the end of the number
  - *Suffix (G)* indicates a New Mexico statewide General Education course.
  - Suffix (V)- indicates a Viewing a Wider World course.
  - Suffix (H)- indicates a Honors courses outside of the Honors prefix.
  - *Suffix (L)* indicates a Laboratory course.
  - Suffix (M)- indicates a Multicultural course.
- **Credits** The unit of university credit is the semester hour. In the example the course can be taken and will be charged for 4 credits. The numbers that appear in the parenthesis indicate the number of credits for lecture hours (3) and the number of credits for practicum/ laboratory hours (3).

### **Three-digit Course**

AERT 105 Aerospace Engineering PLTW (4 credits (2+4P))

- **Course Prefix-** the four letter code that represents the subject of the course and where the course can be located in the Courses A-Z list below.
- · Course number- (105) indicates the course is a freshman course.
- Course Title- will appear after the prefix and number
- Suffix- will appear at the end of the number
  - *Suffix (G)* indicates a New Mexico statewide General Education course.
  - Suffix (V)- indicates a Viewing a Wider World course.
  - *Suffix (H)* indicates a Honors courses outside of the Honors prefix.
  - Suffix (L)- indicates a Laboratory course.
  - Suffix (M)- indicates a Multicultural course.

- *Suffix (N)* indicates when the course credits are not applicable to the baccalaureate and specified associate degrees and is only added to developmental coursework.
- **Credits** The unit of university credit is the semester hour. In the example the course can be taken and will be charged for 4 credits. The numbers that appear in the parenthesis indicate the number of credits for lecture hours (2) and the number of credits for practicum/ laboratory hours (4).

### Designation

- 100-299/1000-2999 Lower Division (Las Cruces and Community College Campuses)
- 300-499/3000-4999 Upper Division (Las Cruces Campus)
  - 450-499/4500-4999 Senior and graduate courses (Las Cruces Campus)
- 500-799/5000-7999 Graduate courses (Las Cruces Campus)

All undergraduate students must demonstrate Basic Academic Skills in both English and mathematics before enrolling in any upper-division course (numbered 300/3000 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.

### **Course Descriptions:**

The course description will follow the prefix, number and credit hours. The description will explain what the course entails and will display any restrictions that the course may have that will be enforced during the registration process.

### ASTR 1115G. Introduction Astro (lec+lab) 4 Credits (3+2P)

This course surveys observations, theories, and methods of modern astronomy. The course is predominantly for non-science majors, aiming to provide a conceptual understanding of the universe and the basic physics that governs it. Due to the broad coverage of this course, the specific topics and concepts treated may vary. Commonly presented subjects include the general movements of the sky and history of astronomy, followed by an introduction to basic physics concepts like Newton's and Kepler's laws of motion. The course may also provide modern details and facts about celestial bodies in our solar system, as well as differentiation between them - Terrestrial and Jovian planets, exoplanets, the practical meaning of "dwarf planets", asteroids, comets, and Kuiper Belt and Trans-Neptunian Objects. Beyond this we may study stars and galaxies, star clusters, nebulae, black holes, and clusters of galaxies. Finally, we may study cosmology--the structure and history of the universe. The lab component of this course includes hands-on exercises that work to reinforce concepts covered in the lecture, and may include additional components that introduce students to the night sky.

### **Additional Notes:**

- 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 (1)

Research and investigation of college majors and career opportunities.

#### A S 101. Success Seminar

#### 1 Credit (1)

Academic and personal strategies and campus resources to enhance scholastic achievement. May be repeated up to 1 credits.

### A S 103. Quantitative Foundations

#### 3 Credits (3)

Course is designed to prepare students for College level mathematics. Initial assessments generate individualized paths to mastery of fundamental skills. Course also covers strategies and campus resources to enhance scholastic achievement. Traditional Grading with RR. May be repeated up to 6 credits. Traditional Grading with RR. Restricted to Las Cruces campus only.

#### A S 200. Interdisciplinary Topics

#### 1-4 Credits

An interdisciplinary approach to subject matter cutting across departmental fields. Specific subjects to be announced in the Schedule of Classes.

# **ACCT-ACCOUNTING (ACCT)**

### ACCT 101. Supplemental Instruction to ACCT 221

#### 1 Credit (1)

Collaborative workshop for students in ACCT 221 – Financial Accounting. Course does not count toward departmental degree requirements. May be repeated up to 2 credits. Restricted to Las Cruces campus only. **Corequisite(s):** ACCT 221.

### ACCT 200. A Survey of Accounting

#### 3 Credits (3)

Emphasis on financial statement interpretation and development of accounting information for management. For engineering, computer science, and other non business majors. Community Colleges only. **Prerequisite:** one C S course or consent of instructor.

### ACCT 2110. Principles of Accounting I

#### 3 Credits (3)

An introduction to financial accounting concepts emphasizing the analysis of business transactions in accordance with generally accepted accounting principles (GAAP), the effect of these transactions on the financial statements, financial analysis, and the interrelationships of the financial statements.

#### ACCT 2120. Principles of Accounting II

### 3 Credits (3)

An introduction to the use of accounting information in the management decision making processes of planning, implementing, and controlling business activities. In addition, the course will discuss the accumulation and classification of costs as well as demonstrate the difference between costing systems.

Prerequisite(s): ACCT 2110.

# ACES-AGRI, CONSUMER & ENV SCIE (ACES)

### ACES 1120. Freshman Orientation

### 1 Credit (1)

Orientation to University life, including the understanding and utilization of resources that promote University success. Designed to promote success in achieving a career objective and perseverance for degree completion. Promotes a recognition of changes required in moving from high school to the University. Eight weeks in length, required for all freshmen in the College of Agricultural, Consumer and Environmental Science.

# ACES 1210. Financial Fitness for College Students 1 Credit (1)

An introduction to personal financial practices in post high school and/ or college lives. Emphasis is placed on budgeting, savings, investment, college debt, student loans, credit cards, scams and consumer protection.

### ACES 1220. Academic Excellence

### 1-3 Credits (1-3)

Academic curriculum of excellence that includes the development of collaborative learning and student success environment, learning diverse learning styles and multiple intelligences, and developing multicontextual academic communication styles. Restricted to: Open to all ACES majors. Restricted to Las Cruces campus only.

# **AEEC-AGRICULTURAL ECON/ECON**

# AEEC 1110. Introduction to Agricultural Economics and Business 3 Credits (3)

Orientation to agricultural economics and business through the discovery process for the consumer in the food, fiber and natural resource sectors of the global economy. The course will discuss the application of microand macro-economic principles as they relate to agricultural economics and business. May be repeated up to 3 credits.

# AEEC 1120. Careers in Food and Agribusiness 1 Credit (1)

Orientation to agribusiness management. Students will learn about agricultural production and marketing in New Mexico, the United States, and the world. Students will be introduced to faculty and staff within the department, learn about career opportunities available to AEAB graduates, and develop a greater appreciation of agricultural management issues. May be repeated up to 1 credits. Restricted to Las Cruces campus only.

Prerequisite(s): Freshman status only or obtain consent of instructor.

# AEEC 2110. Principles of Food and Agribusiness Management 3 Credits (3)

Description and application of management and financial principles, market planning, and organization theory in small business situations. May be repeated up to 3 credits.

# AEEC 2120. Introduction to Food and Agribusiness Accounting 3 Credits (3)

Purpose and methods of keeping and analyzing farm and ranch records. Net worth and income statements, efficiency measures, analysis of the business, and tax computations. May be repeated up to 3 credits.

# AEEC 2130G. Survey of Food and Agricultural Issues 3 Credits (3)

Survey of food and agricultural issues, including: geography of food production and consumption; human-agricultural-natural resource relations; agriculture in the United States and abroad; modern agribusiness; food safety; food, agriculture, and natural resources policy; ethical questions; role and impact of technology. Crosslisted with: FSTE 2130G.

# AEEC 2140. Technology and Communication for Business Management 3 Credits (2+2P)

Understanding and improving skills for data analysis, information management and communication is the focus of this course. Drawing examples from a variety of management, business, technological and research situations, students discover the versatility and variety of uses of computer applications such as spreadsheet, database, presentation and document software. Emphasizing a 'hands-on' approach students learn the foundations of these tools and their use.

#### AEEC 2996. Special Topics 1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree. Consent of instructor required.

# **AERO-AEROSPACE STUDIES (AERO)**

# AERO 121. Heritage and Values 2 Credits (1.25+2P)

'Heritage and Values of the United States Air Force,' is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

### AERO 122. Heritage and Values II 2 Credits (1.25+2P)

'Heritage and Values of the United States Air Force,' is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, and organization of the Air Force. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

# AERO 221. Team and Leadership Fundamentals 2 Credits (1.25+2P)

'Teams and Leadership Fundamentals,' focuses on laying the foundation for teams and leadership. The topics include skills that allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

### AERO 222. Team and Leadership Fundamentals II 2 Credits (1.25+2P)

'Team and Leadership Fundamentals,' focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

### AERO 223. Air Force Leadership Development 1 Credit (2P)

This course prepares cadets to excel in field training. Cadets are prepared in all facets of field training, including: leadership competency evaluations, the Cadet's Guide to Field Training, individual drill evaluations, attention to detail, dining hall procedures, maintenance of living areas, and the group problem solving process. Restricted to: Main campus only.

# AERT-AEROSPACE TECHNOLOGY (AERT)

### AERT 105. Aerospace Engineering PLTW 4 Credits (2+4P)

Introduce the student to Aerospace Engineering (AE) concepts and history. Studied topics include History of Flight, Aerodynamics, Rocket Science, Orbital Physics, Systems Engineering and Life Support/ Environmental Systems. Restricted to: Community Colleges only.

### AERT 111. Basic Electricity and Electronics 3 Credits (2+2P)

Fundamentals of electricity and electronics, basic circuit devices, meters, transistors, integrated fiber optics, and industrial application topics. Minimum math proficiency of CCDM 103 or CCDM 104 required or math placement into CCDM 114 or higher. Restricted to: Community Colleges only. Crosslisted with: ELT 105

### AERT 121. Introduction to the Aerospace Workplace 4 Credits (2+4P)

The course covers space history, regulations, controls, aerospace industry terminology and acronyms as well as hands-on activities related to tools, procedures, and standard practices. Restricted to: Community Colleges only.

# AERT 122. Aerospace Safety and Quality 3 Credits (2+2P)

Covers identification of hazards, personal protective equipment, safe practices, and protection of personnel, property, and equipment in the aerospace environment. Basic principles of quality assurance engineering and quality control relating to work processes will be discussed. Restricted to: Community Colleges only.

### AERT 211. Electromechanical Devices 4 Credits (2+4P)

Theory and application of electromechanical devices and digital control circuits. Includes AD and DA converters, pneumatics, hydraulics, programmable logic controllers, DC, AC and stepper motors, and servomechanisms. Crosslisted with: MAT 240. **Prerequisite(s):** ELT 160.

### AERT 212. Materials and Processes (Basic Metallurgy) 3 Credits (2+2P)

Basic Metallurgy: Aluminum and its alloys (Alclad), hardening, tempering, annealing, anodizing, magnetism, titanium, copper, stainless steel, surgical steel, safety wire, iron rust. Metallurgical Processes: Welding and soldering. Inspection Fundamentals: Eddy currents, magnetic particles (ferrous and non-ferrous metals), ultrasonic, x-ray, visual, corrosion and corrosion control, and vacuum bagging. Restricted to: Community Colleges only.

### AERT 213. Aerospace Fluid Systems 3 Credits (2+2P)

This course includes a familiarization of fluid system components, characteristics, and applications. Cryogenic and hypergolic materials and high pressure systems are also covered. Restricted to: Community Colleges only.

### AERT 214. Aerospace Systems 3 Credits (2+2P)

This course provides an introduction to expendable and reusable spacecraft systems including hydraulic, pneumatic, electrical, propulsion, mechanical, HVAC, and ECLSS (Environmental Control and Life Support System). How systems interact with computer and data acquisition systems is also covered. Restricted to: Community Colleges only.

### AERT 221. Inspection Requirements and Planning Metrology 3 Credits (2+2P)

Course teaches the benefits of inspection, quality control, material conditions. Also covers measurements, including temperature, ultrasonic, vibration and more. Restricted to: Community Colleges only.

# AERT 222. Electromechanical Systems 3 Credits (2+2P)

Principles and applications of preventive and corrective maintenance procedures on industrial production machines using systems technical and maintenance manuals to develop troubleshooting procedures using systems block and schematic diagrams. Crosslisted with: MAT 245. **Prerequisite(s)/Corequisite(s):** AERT 221 or MAT 240. Prerequisite(s): ELT 160.

### AERT 224. Aerospace Tests and Measurements 3 Credits (2+2P)

This course covers electrical and mechanical testing procedures (primarily non-destructive testing), equipment, measurements, and instrumentation involved in aerospace systems. Verification of tool and equipment calibration is also covered.

**Prerequisite(s)/Corequisite(s):** AERT 221. Restricted to: Community Colleges only.

### AERT 225. Cooperative Experience

### 1-3 Credits (1-3)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Consent of instructor required. Graded: S/U. Restricted to: Community Colleges only.

### AERT 255. Special Topics

### 1-4 Credits (1-4)

Specific topics to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

### AERT 290. Independent Study

### 1-3 Credits (1-3)

Individual studies in areas directly related to aerospace. Consent of instructor required. Restricted to: Community Colleges only.

# **AGRO-AGRONOMY (AGRO)**

### AGRO 1110G. Introduction to Plant Science (Lecture & Lab) 4 Credits (3+2P)

This is an introductory course for understanding plant science. Basic biological, chemical, and physical principles of various plants are covered. The focus of this course is on plants/crops used in agriculture production of food and fiber as well as pasture and range plants. Plant taxonomy and soil properties will also be discussed. Same as HORT 1115G.

### AGRO 2160. Plant Propagation

### 3 Credits (2+2P)

Practical methods of propagating horticultural plants by seed, cuttings, layering, grafting, division and tissue culture. Examination of relevant physiological processes involved with successful plant propagation techniques. Crosslisted with HORT 2160.

#### AGRO 2996. Special Topics

#### 1-4 Credits (1-4)

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree. May be repeated up to 9 credits. Consent of Instructor required.

# **AHS-ALLIED HEALTH SCIENCE (AHS)**

### AHS 102. Careers in the Health Fields

### 1-3 Credits (1-3)

This course will provide students with a broad understanding of health careers as well as emerging issues in health. This will also include the study of the functional roles of practice, education, administration, and research in health fields. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### AHS 115. Dietary Guidelines & Meal Planning 4 Credits (4)

A combination of the science of nutrition and the current Dietary Guidelines for Americans with practical application to meal planning and preparation. Strategies and techniques used to plan and prepare healthful and appetizing meals are explored. Evidenced-based dietary guidelines are provided to meet the needs of individuals and groups with chronic diseases. Menu development, modification and analysis are reviewed. Restricted to Community Colleges campuses only.

### AHS 116. Math for Health Occupations

### 3 Credits (3)

Principles of math and pharmacology necessary for administration of medications. Restricted to: Community Colleges only. **Prerequisite(s):** CCDM 114N or equivalent.

### AHS 120. Medical Terminology

#### 3 Credits (3)

The study and understanding of medical terminology as it relates to diseases, their causes and effects, and the terminology used in various medical specialties. Emphasis will be placed on learning the basic construction of medical words, appropriate spelling, use of medical terms, and use of medical abbreviations. Same as HIT 150. May be repeated up to 3 credits. Crosslisted with: NURS 150, BOT 150 and HIT 150. Restricted to Community Colleges campuses only.

# AHS 140. Essentials of Anatomy and Physiology 4 Credits (3+3P)

Essentials of anatomy and physiology for those considering a career in health as well as those interested in understanding their own body and the basics of health.

# AHS 153. Introduction to Anatomy and Physiology I 4 Credits (3+3P)

Survey of human anatomy and physiology. **Prerequisite:** high school biology or high school chemistry, or CHEM 1120G, or consent of instructor.

### AHS 155. Special Topics

### 1-6 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 6 credits.

#### AHS 190. Clinical Skills & Concepts for Medical Assisting I 6 Credits (3+6P)

A core course designed to provide an introduction to the theory, concepts, and skills needed for entry-level medical assisting positions. Content includes basic theory and concepts designed to support safe and effective practice as a medical assistant in ambulatory care settings. Includes a skills laboratory for hands-on practice and 96 hours of supervised clinical in the work environment. Restricted to Community Colleges campuses

# AHS 202. Legal and Ethical Issues in Health Care 3 Credits (3)

Consideration of legal and ethical issues in modern health care delivery.

# AHS 250. Spanish for Health Professionals 3 Credits (3)

Spanish for Health Professionals is a 3 credit course geared toward individuals working or majoring in health related areas. The course focus is on conversation and vocabulary needed for the workplace and task based practical skills. Restricted to: Community Colleges only.

#### AHS 280. Medical Office Administration & Management 4 Credits (2+4P)

A core course designed to provide the theory, concepts, and skills needed in preparation for entry-level medical assisting positions. Content includes theory and concepts related to medical office administration. The course includes skills, hands-on practice, and 40 hours of supervised clinical in the work environment in ambulatory care settings. Restricted to Community Colleges campuses only.

### AHS 290. Clincial Skills & Concepts for Medical Assisting II 6 Credits (3+6P)

A core course designed to provide the theory, concepts, and skills needed in preparation for entry-level medical assisting positions. Content includes theory and concepts related to specialty areas of healthcare practice, as well as consideration for conditions affecting persons throughout the life span. The course includes a skills laboratory for hands-on practice and 96 hours of supervised clinical in the work environment with specialized populations and procedures in both ambulatory and acute care settings. Restricted to Community Colleges campuses

# **ANSC-ANIMAL SCIENCE (ANSC)**

### ANSC 1110. Animal Science Careers

### 1 Credit (1)

Introduction to scientific disciplines and career options in animalagriculture career skill development, including resume preparation, networking, importance of internships, and leadership experiences in animal agriculture.
# ANSC 1120. Introduction to Animal Science 3 Credits (3)

This course is designed to provide an introduction to nutrients and their function in livestock animals. Basic feed identification, evaluation, and diet formulation will be discussed. The anatomy of the digestive tract of animals and their ability to utilize feedstuffs is presented. Classification, digestion, absorption, transport and metabolism of major nutrients required by animals are studied

# ANSC 1120H. Introduction to Animal Science Honors 3 Credits (3)

This course is designed to provide an introduction to nutrients and their function in livestock animals. Basic feed identification, evaluation, and diet formulation will be discussed. The anatomy of the digestive tract of animals and their ability to utilize feedstuffs is presented. Classification, digestion, absorption, transport and metabolism of major nutrients required by animals are studied. Additional course work will be required. Restricted to Las Cruces campus only.

Prerequisite(s): Eligibility for membership in honors college.

# ANSC 1120L. Introduction to Animal Science Lab 1 Credit (2P)

Students will observe and participate in activities related to farm animal management and will include areas of livestock selection, nutrition, reproductive physiology, animal ID and animal health. This lab is required for animal science majors.

Prerequisite(s)/Corequisite(s): ANSC 1120.

## ANSC 1130. Westerrn Equitation I 2 Credits (4P)

Basic principles of Western riding, including care and management of the riding horse, equitation equipment, and development of riding skills.

# ANSC 1140. Introduction to Dairy Science 3 Credits (3)

Introduction to the basic aspects of dairy science and how to apply key concepts to the practical feeding and management of dairy cattle and production of dairy products. Students should also obtain an appreciation for the size and diversity of the dairy industry. **Prerequisite(s)/Corequisite(s):** ANSC 1120. Restricted to Las Cruces campus only.

# ANSC 1160. Introductory Horse Science

# 3 Credits (2+2P)

The light horse industry; breeds; introduction to feeding, breeding, marketing and management; handling and selecting horses for breeding and performance.

# ANSC 1170. Introduction to Animal Metabolism 3 Credits (3)

Principles underlying the mechanisms of animal metabolism as they relate to production, maintenance, and health of animals. **Prerequisite:** CHEM 1215G.

# ANSC 1180. Companion Animal in Society 3 Credits (3)

Examination of the historical, current, and potential future roles of companion animals in human society. Topics include animal domestication, breeds, exotic companion animals, the companion animal industry, and competitions and sports involving companion animals. Emphasis is on canine and feline species. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

## ANSC 2120. Equine Management 3 Credits (3)

Introduction and application of the business skills necessary to effectively manage the equine operation. Students will learn how to use strategic thinking and sound business management practices to succeed in the demanding equine industry.

Prerequisite: ANSC 1160.

# ANSC 2130. Western Equitation II

# 2 Credits (4P)

Intermediate principles of Western riding, including reading horse behavior, limbering-up exercises, and developing riding skills. Introduction to rollbacks, turnarounds and stops. **Prerequisite:** consent of instructor.

Prerequisite: consent of instructor

# ANSC 2140. Introduction to Companion Animal Science 3 Credits (3)

Introduction to the care of common companion animal species. Species specific housing and nutrition are covered in the context of maximizing animal health and well-being and reducing disease. May be repeated up to 3 credits.

# ANSC 2150. Management of Equine Operations 3 Credits (3)

Introduction and application of business skills necessary to effectively manage the equine operation. Students will learn how to use strategic thinking and sound business management practices to succeed in the demanding equine industry.

Prerequisite(s): ANSC 1160.

## ANSC 2160. Team Competition in Animal Science 1-2 Credits

Training in team competition in the animal sciences. May be repeated up to 6 credits. Consent of Instructor required.

# ANSC 2310. Introduction to Meat Science 3 Credits (2+3P)

Fundamental aspects of the red meat industry. Lecture topics and laboratory exercises include the nutrient value of meat, meat preservation, meat safety, muscle structure and contraction, slaughter and processing of beef, lamb and pork, sausage manufacture, meat curing, meat cookery, and muscle and bone anatomy.

# ANSC 2330. Animal Production 3 Credits (2+2P)

Production and utilization of beef cattle, sheep, and swine; emphasis on feeding, breeding, management problems and marketing; selection of animals for breeding and market

# ANSC 2340. Genetics in Animal Science

# 3 Credits (3)

Introduction to genetics and inheritance relative to livestock production. Introduction to procedures for collection and use of performance information in livestock improvement programs. **Prerequisites:** BIOL 2610G.

# ANSC 2996. Special Topics

# 1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree.

# **ANTH-ANTHROPOLOGY (ANTH)**

## ANTH 1115G. Introduction to Anthropology

# 3 Credits (3)

Anthropology is the systematic study of the humanity both past and present. The course introduces students to the four subfields of anthropology, which include archaeology, biological, linguistic and cultural anthropology. Students will learn about the concepts and methods that anthropologists use to study our species and gain a broader perspective on the human experience.

# ANTH 1135G. Introduction to Biological Anthropology 3 Credits (3)

This course provides a basic introduction to the broad field of biological anthropology. The research interests of biological anthropologists include the history and development of modern evolutionary biology, molecular and population genetics, modern primates, the primate and human fossil record, and modern human biological diversity.

Corequisite(s): ANTH 1135L.

# ANTH 1135L. Introduction to Biological Anthropology Lab 1 Credit (2P)

This laboratory course expand on the topics covered in lecture course and uses scientific methods and principles to examine evidence for the process of evolution, the nature of heredity, human evolutionary history and family tree relationships, primate ecology and behavior, and modern human diversity. Hands-on experience with fossil and skeletal material will be an important part of the learning process. Corequisite(s): ANTH 1135G

# ANTH 1136. Introduction to Historic Preservation 3 Credits (3)

Introduction to historic preservation, its history, goals, methods, legal basis, and economic importance. Explores public role in decision-making. Community Colleges only.

## ANTH 1137G. Human Ancestors 3 Credits (3)

Evolutionary history of the human species from its origin in the primate order, with primary emphasis on the evolution of humankind during the past three million years. Examination of the social lives of apes and consideration of similarities to and differences from them. Biological foundations of human behavior, emphasizing thought, movement, and interaction.

# ANTH 1140G. Introduction to Cultural Anthropology 3 Credits (3)

This is an introductory course that provides an overview of cultural anthropology as a subfield within the broader discipline of anthropology and as a research approach within the social sciences more generally. The course presents core concepts and methods of cultural anthropology that are used to understand the ways in which human beings organize and experience their lives through distinctive cultural practices. More specifically, this course explores social and cultural differences and similarities around the world through a variety of topics such as: language and communication, economics, ways of making a living, marriage and family, kinship and descent, race, ethnicity, political organization, supernatural beliefs, sex and gender, and globalization. This course ultimately aims to present a broad range of perspectives and practices of various cultural groups from across the globe.

# ANTH 1160G. World Archaeology 3 Credits (3)

This course is an exploration of human evolution and cultural development throughout the world. Students will be introduced to basic anthropological methods and theories and will learn how anthropological research has contributed to our understanding of major themes in human prehistory, including human evolution, the origins of culture, migration and colonization, animal and plant domestication, and the rise and fall of civilizations.

# ANTH 2140G. Indigenous Peoples of North America 3 Credits (3)

This course is a general survey of the history and ethnology of indigenous groups in North America. The course is designed to give students a comprehensive view of major issues pertaining to the indigenous cultures of North America, such as family structure, social organization, subsistence and contemporary economies, environmental adaptation, Indian-White relations, religious practices, and contemporary issues.

# ANTH 2150. Indigenous Peoples of the American Southwest 3 Credits (3)

This course is a study of indigenous cultural groups of the American Southwest. Students will explore historical and contemporary cultural and social patterns of American Indian, Hispanic and Anglo-American groups.

# ANTH 2996. Special Topics

## 1-4 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

# **ARCH-ARCHITECTURE**

# ARCH 1105. Orientation and Mentoring in Architecture-Construction-Engineering (ACE)

# 1-6 Credits (1-6)

This course is intended for high school dual credit students and college/university students wishing to explore careers in Architecture, Construction, and Engineering (ACE), which includes the specific fields of Architectural, Civil, Mechanical, Structural, Interior, Landscape, Sustainability, and Environmental. Students receive one-on-one mentoring, attend field trips, and engage in hands-on activities. May be repeated up to 6 credits. Restricted to Community Colleges campuses

# ARCH 1110. Architectural Drawing

# 4 Credits (2+4P)

This course is designed as an introduction to architectural drawing and design for students without prior experience in the fine arts. Students are guided through a series of spatial and analytical exercises that focus attention on not only how architects draw, but also the reasoning and processes embedded within the technique. Students are provided exposure to a wide range of interconnected architectural concepts and to manual and digital drawing, as well as modeling techniques for architectural and interior design. Students will learn how to represent composition, form, and space by orthographic drawing, paraline and perspective views, and freehand sketching. Three-dimensional model building techniques will also be introduced.

# ARCH 1112. Global Issues and Sustainability 3 Credits (3)

Introduction to global environmental issues (historic, present, and future), and the impact on tomorrow's design and construction professions. Issues will include, but shall not be limited to global warming, energy consumption, population, natural resource consumption, air and water quality, waste management, facilities operation management, politics, and facilities design & construction. The impact on the design and construction industry, including 'Green Building' and 'LEED Accreditation and Certification/Criteria' will also be addressed. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

# ARCH 1114. Introduction to Architectural Design 3 Credits (2+2P)

This course provides students who possess a basic background in architecture and architectural drawing with an introduction to architectural design. Students are guided through a series of spatial and analytical exercises that focus attention on two dimensional, three dimensional, and four dimensional design. This course will build on direct linkages to ARCH 1120 and ARCH 1110 to further students' exposure to interconnected architectural concepts of process, organizational strategies, and analysis of material methodology while utilizing abstract and practiced graphical architectural conventions. Consent of Instructor required. Restricted to Community Colleges campuses only. **Prerequisite(s):** ARCH 1120 and ARCH 1110.

# ARCH 1120. Introduction to Architecture

## 3 Credits (2+2P)

This course provides students the tools and vocabulary to analyze, interpret and discuss the built environment from the social, historical, perceptual and technical determinants. Students are introduced to elements, principles, and theories of architecture through their social, historical, and technical determinants. The course seeks to lay a foundation in architectural studies, including introducing students to fundamental vocabulary and concepts.

# ARCH 1121. Computers in Architecture 3 Credits (2+2P)

Explore various software and photography techniques widely used in the architectural field. In addition to using industry standard CAD program as primary 2-d drafting tool, focus is to produce digital architectural models and renderings, presentation boards, and animations. Digital images will be produced and enhanced through basic techniques in photography and integration of various software. Both individual and group work will be required.

# ARCH 1122. Architectural Design Studio I 5 Credits (1+8P)

Enhancement of general graphic communication skills and introduction to fundamental design including exploration, development and defense of design concepts; structural order; 2D and 3D processes in manual and digital architectural graphic expression; model building; general communication and presentation techniques; and development of course portfolio. Course is Studio/critique-based with considerable amount of work/hours required. This course is designed to be taken during student's last year in the Pre-Architecture program at DACC. Consent of Instructor required. Restricted to Community Colleges only.

Prerequisite(s): Grade of B- or better in both ARCH 1120 and ARCH 1110.

## ARCH 1220. Architecture World History I 3 Credits (2+2P)

A survey of the development of world architecture from the ancient era to the advent of the enlightenment in Europe. Major emphasis is on the visual, intellectual, cultural and technological aspects of the ancient and indigenous cultures of the classical and pre-modern world. Community Colleges only. Restricted to Alamogordo, Dona Ana and Grants campuses.

# ARCH 1310. Introduction to Architecture, Engineering, & Construction 3 Credits (3)

Introduction to and exploration of careers in the fields of architecture, engineering, and construction. Specific fields to include: architecture, civil engineering, mechanical engineering, structural engineering, engineering technology, residential construction, commercial construction, geographical information systems (GIS), surveying, sustainable design, and green building Crosslisted with: DRFT 100.

#### ARCH 2111. Architectural Delineation I 3 Credits (2+2P)

Introduction to visual literacy, architectural graphic communication, & basic analytical skills. Architectural concepts primarily explored through the application of technical drawing, descriptive geometry, & material manipulation; primarily black & white media. Use of digital tools and media as applicable. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

# ARCH 2113. Sustainable Design in Architecture 3 Credits (3)

This course provides students with hands-on opportunity to increase their awareness in, and respond to the issues of responsible environmentally friendly building design by engaging in an integrated design process combining 'Traditional Design Process' with 'Sustainable Environmental Design' strategies. Students will expand their awareness of global environmental impacts due to design and construction, and gain knowledge in the industry's leading design 'tool' LEED (Leadership in Energy and Environmental Design) green building design rating system. LEED strategies will be utilized in the design of individual projects apply LEED in practical, individual design development, and develop an integrated building model utilizing the concept of BIM (Building Information Modeling). Such project development will require learning a basic design process and specific sequence including conceptual design, schematic design, design development and BIM (utilizing a BIM software such as REVIT, or AutoCad Architecture). May be repeated up to 3 credits. Prerequisite(s): DRFT 109 or DRFT 165 or ARCH 2114.

### ARCH 2114. Construction Documents 3 Credits (2+2P)

Basic use of CAD to produce residential, commercial, and industrial architectural working drawings, including floor plans, sections, foundation plans and details, exterior and interior elevations, framing plans, and site plans. Use and application of building and zoning codes, typical construction methods and materials, and accessibility requirements. Basic 3-D modeling, AIA layering standards, sheet layout, and construction document coordination. Restricted to: Community Colleges only.

Prerequisite(s)/Corequisite(s): DRFT 109.

## ARCH 2115. Architecture Design Studio II 5 Credits (1+8P)

Advanced graphic communication, design, and 3D physical model representation. Focus on site analysis, programming and fundamental design issues of context, environment, program development and space planning, 2D and 3D design and presentation techniques. Course is 'Studio/critique-based' with considerable amount of outside work/hours required. This course is designed to be taken during student's last year in the Pre-Architecture program at DACC. Restricted to Alamogordo, Dona Ana and Grants campuses.

Prerequisite(s): Grade of C- or better in ARCH 1122.

# ARCH 2116. Architectural Delineation

### 3 Credits (2+2P)

Continuation of ARCH 2111 with an emphasis in color media. **Prerequisites:** ARCH 2111.

# ARCH 2122. LEED Accreditation Exam Prep

## 3 Credits (3)

This course is intended for anyone in the construction or architectural design fields who is interested in learning more about green building and the LEED (Leadership in Energy and Environmental Design) strategies, and are also interested in learning about how to become LEED accredited. Overview of the LEED rating systems utilized in the design and operation of buildings, the various LEED building certifications, and accreditation requirements for professionals. Highlights include interpretation of the LEED Reference Guides, accepted strategies for meeting LEED certification, sample practice exams, integrated project delivery methods, and a practical approach to problem solving through the use of design problems. Restricted to Community Colleges only.

# ARCH 2124. Professional Development and Leadership-AIAS 1-3 Credits

As members and/or officers of student professional organizations, architecture students gain experience through undertaking leadership roles, participating in team building, and becoming involved in service to the community. Students can also gain actual work experience involving skills related to their field of study. Graded S/U.

# ARCH 2220. Architectural World History II 3 Credits (2+2P)

A survey of the development of world architecture from the enlightenment in Europe to the present. Community Colleges only. Restricted to Alamogordo, Dona Ana and Grants campuses. **Prerequisite(s):** ARCH 1220 or consent of instructor.

# ARCH 2994. Portfolio Design in Architecture 3 Credits (3)

This course is intended for Pre-Architecture students in their last semester of the program. Students develop a comprehensive portfolio that compiles, organizes, and showcases their most accomplished coursework produced in Architecture courses at DACC, in preparation for application to a 4 yr. Architecture program. Skills and techniques in architectural photography, scanning, and design layout using graphic software. Restricted to Community Colleges only. **Corequisite(s):** ARCT 2115.

ARCH 2995. Cooperative Experience

# 1-6 Credits

Supervised cooperative work program. Student employed in approved occupation; supervised and evaluated by employer and instructor. Student meets weekly with instructor. Graded S/U. **Prerequisite:** consent of instructor.

### ARCH 2996. Special Topics 1-6 Credits

Topics subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

# **ART-ART (ART)**

## ART 125. Foundations in Art 3 Credits (2+4P)

The Foundations course will focus on a deceptively simple question. 'What is Contemporary Art, and how can we make it?' Through the exploration of basic visual design concepts, collaborative learning, and interdisciplinary studio production, this course will help us to discover what it means to be an artist in the 21st century. Restricted to Las Cruces campus only.

# **ARTH-ART HISTORY**

# ARTH 1115G. Orientation in Art

## 3 Credits (2+3P)

A multicultural examination of the principles and philosophies of the visual arts and the ideas expressed through them.

# ARTH 2110G. History of Art I

## 3 Credits (3)

This survey course explores the art and architecture of ancient prehistoric cultures through the end of the fourteenth century. While focused primarily on the art of the Western civilizations, this course will also provide insights into the works of other major cultures in order to provide alternate views of art and history. Emphasis will be placed on the relationship of artworks to political, social, spiritual, intellectual, and cultural movements that affect and are affected by their creation and development.

## ARTH 2120G. History of Art II 3 Credits (3)

This survey course will explore the architecture, sculpture, ceramics, paintings, drawings, and glass objects from the 14th century to the modern era. While focused primarily on the art of the Western civilizations, this course will also provide insights into the works of other major cultures in order to provide alternate views of art and history. Emphasis will be placed on the relationship of artworks to political, social, spiritual, intellectual, and cultural movements that affect and are affected by their creation and development.May be repeated up to 3 credits.

# **ARTS-ART STUDIO**

# ARTS 1145G. Visual Concepts

# 3 Credits (2+4P)

Visual Concepts is an introduction to the philosophies of art, visual thinking, and principles of visual organization. Designed to give students a broad view of aesthetic traditions, ideologies, and techniques basic to the creation and evaluation of art. Principles and concepts are taught in a common lecture and applied in parallel small studio sections. For non-art majors only.

# ARTS 1212. Color Theory

# 3 Credits (2+4P)

Various color theories as they relate to compositional organization. Required for art education majors.

# ARTS 1240. Design I

# 3 Credits (3)

This course introduces the fundamentals of two-dimensional design as it applies to fine art and commercial contexts. Emphasis will be on basic color theory, elements of dynamic composition, vocabulary of visual arts and design, and development of visual conceptual skills. Students will use a variety of materials and techniques. Restricted to Community Colleges campuses only.

## ARTS 1250. Design II

#### 3 Credits (3)

This course introduces the basic formal (aesthetic), spatial, and physical aspects of 3-D form as they can be applied to sculptural and functional design. Techniques that explore structure, mass, volume, scale, surface, form, and function are covered, along with various media, which may include paper, wood, clay, and/or metal. Restricted to Community Colleges campuses only.

# ARTS 1310. Introduction to Ceramics 3 Credits (2+4P)

This course introduces the technical processes and conceptual concerns of working with ceramic material. Various methods of forming functional and expressive works out of clay are explored. Methods used include handbuilding and throwing, basic clay bodies, slip and glaze, and atmospheric firing.

# ARTS 1320. Ceramics I

## 3 Credits (2+4P)

An introduction to the medium of clay incorporating hand building and wheel throwing to introduce the student to both the sculptural and utilitarian uses of clay. The student will also be introduced to a variety of glazing and firing techniques

# ARTS 1410. Introduction to Photography 3 Credits (2+4P)

This course introduces the making of photographic images from a broad viewpoint to consider both as an art practice and as a cultural practice. The course covers technical information on camera use and functionality, composition and visual design, digital workflow and editing, professional functions of manipulating and enhancing images, and printing correctly and effectively. The historical aspects of photography are also covered. May be repeated up to 3 credits.

# ARTS 1520. Digital Media I

### 3 Credits (2+4P)

This course provides an introduction to two of Adobe's major software applications, Illustrator and Photoshop, which are essential in creating artwork, designing promotional materials, websites and more. Part of the course deals with creating a variety of documents using the major tools of each program, and gaining an understanding of the contemporary graphic design industry and basic elements and principles of design. Community Colleges only.

# ARTS 1610. Drawing I

# 3 Credits (2+4P)

This course introduces the basic principles, materials, and skills of observational drawing. Emphasis is placed on rendering a 3-D subject on a 2-D surface with visual accuracy. Other topics include historical and contemporary references as well as an investigation of linear perspective, line, value, shape, space & composition. May be repeated up to 3 credits.

### ARTS 1630. Painting I 3 Credits (2+4P)

This course introduces the tradition of painting as a medium for artistic expression. Students will investigate materials, tools, techniques, history and concepts of painting. Emphasis is placed on developing descriptive and perceptual skills, color theory, and composition. May be repeated up to 3 credits.

Prerequisite(s): ARTS 1610.

#### ARTS 1710. Introduction to Printmaking 3 Credits (2+4P)

This course provides direct experience of exploring basic printmaking processes, including relief, intaglio, and monoprint processes, as well as the investigation of materials/media, tools, techniques, history, and concepts of printmaking. Emphasis is given to solving problems through thematic development while producing a portfolio of prints.

# ARTS 1711. Computer-Based Illustration 3 Credits (2+4P)

Introduction to the principles of computerized drawing and design. Using the basic concepts, drawing tools, and vocabulary of Adobe Illustrator. **Prerequisite:** ARTS 1610, ARTS 1240, or consent of instructor.

# ARTS 1712. Digital Graphics

## 3 Credits (2+4P)

Importing and exporting images and text into various desktop publishing formats. Exploring imaging, drawing, and page layout applications. Introduction to typography. **Prerequisite:** ARTS 1520.

# ARTS 1713. Web Page Design 3 Credits (2+4P)

Introduction to the creation of well-designed and organized Web sites. Emphasis on building creative but functional user-friendly sites. Introduction to HTML, Flash, Java Script, and Web-authoring software. Community Colleges only.

Prerequisite: ARTS 1520.

# ARTS 1810. Jewelry and Small Metal Construction I

## 3 Credits (2+4P)

This course introduces the basic techniques, materials, and tools traditionally used in the creation of jewelry and/or small-scale sculptural objects.

# ARTS 2010. Portfolio Development 3 Credits (2+4P)

This course presents the practicalities of building an art career with emphasis on developing a professional portfolio through visual aids, resumes, statements, and presentations. It covers professional practices of the studio artist including self-promotion, contracts, research tools for exhibition venues and other art related opportunities.

Prerequisites: ARTS 1712, ARTS 2611, and ARTS 1520, or consent of instructor.

# ARTS 2355. Stained Glass

## 3 Credits (2+4P)

Instruction in the fundamental fabrication and design techniques for stained glass. Introduction to visual decision making skills, historical, and critical issues of the medium. Community Colleges only.

# ARTS 2410. Black & White Photography 3 Credits (2+2P)

This course introduces the fundamental techniques of black and white photography, which includes camera functions and use, exposure techniques and film processing, traditional darkroom printing, and presentation of work. Same as ARTS 1410.

# ARTS 2430. Photographic Portraiture 3 Credits (2+2P)

This course covers the study of professional photography that involves people, including studio and environmental portraits. Topics include studio and exterior lighting techniques, and selecting lighting equipment and supplies. Restricted to: Community Colleges only. **Prerequisite(s):** ARTS 1410 or FDMA 1545.

# ARTS 2431. Introduction to Graphic Design 3 Credits (2+4P)

Introduction to the principles of visual communication and digital media, letterforms, typography and identity marks. Projects produced using conventional and digital tools.

# ARTS 2440. Photo Finishing & Presentation

## 2 Credits (1+2P)

Use of visual language for personal expression. Freelance photography; care of original photos; preparation of portfolios, photographic markets, exhibitions and judging, galleries and copyrights. Students will prepare a photographic portfolio. Restricted to: Community Colleges only. **Prerequisite(s):** FDMA 1545.

# ARTS 2610. Drawing II

## 3 Credits (2+4P)

This course introduces color and colored media as an element of composition while emphasizing descriptive and perceptual drawing skills and conceptual approaches to contemporary drawing. Restricted to ART and ANVE/DFM majors.

# Prerequisite(s): ARTS 1610.

# ARTS 2611. Advanced Computer-Base Illustration 3 Credits (2+4P)

Design custom graphics and create special effects with filtering, special effects on type, graphing, technical illustrations, and three-dimensional drawing using Adobe Illustrator.

Prerequisites: ARTS 1212, ARTS 1711, and ARTS 1520, or consent of instructor.

# ARTS 2616. Aspects of Drawing

# 2-3 Credits

Continued work in drawing with emphasis on personal creative endeavor. Community Colleges only.

Prerequisites: ARTS 1610 and ARTS 2610.

# ARTS 2630. Painting II

# 3 Credits (2+4P)

This course focuses on the expressive and conceptual aspects of painting, building on the observational, compositional, technical, and critical skills gained previously. Students will investigate a variety of approaches to subject matter, materials, and creative processes through in-class projects, related out-of-class assignments, library research or museum/gallery attendance, written responses, and critiques. Prerequisite(s): ARTS 1610 and ARTS 1630

# ARTS 2635. Painting III

# 2-3 Credits

# Continuation of ARTS 2630.

**Prerequisites:** ARTS 1610, ART 1240 (for art majors), ART 1630, or consent of instructor.

# ARTS 2671. Writing in Art

# 3 Credits (3)

This reading- and writing-intensive course will introduce students to various approaches of writing about historical art.

# ARTS 2839. Introduction to Sculpture 3 Credits (2+4P)

Beginning sculpture students "explore space" while learning new processes and skills, including mold making, welding and woodworking.

### ARTS 2993. Art Workshop 0.5 Credits (.5)

Required for all freshman and sophomore Art majors for four semesters, this workshop is designed to build professional student cohorts within the Department of Art; incorporate visiting artist and scholar lectures into the curriculum; and actively involve students in exhibitions and gallery and departmental events. May be repeated up to 4 credits. Crosslisted with: ARTS 308. Restricted to: BA Studio Art, BA Art History BFA Studio Art, BFA Museum Conservation majors. Restricted to Las Cruces campus only.

#### ARTS 2996. Special Topics in Studio 1-3 Credits

Specific subjects and credits to be announced in the Schedule of Classes. No more than 9 credits toward a degree. **Prerequisite:** consent of instructor.

# **ASTR-ASTRONOMY (ASTR)**

### ASTR 1115G. Introduction Astro (lec+lab) 4 Credits (3+2P)

This course surveys observations, theories, and methods of modern astronomy. The course is predominantly for non-science majors, aiming to provide a conceptual understanding of the universe and the basic physics that governs it. Due to the broad coverage of this course, the specific topics and concepts treated may vary. Commonly presented subjects include the general movements of the sky and history of astronomy, followed by an introduction to basic physics concepts like Newton's and Kepler's laws of motion. The course may also provide modern details and facts about celestial bodies in our solar system, as well as differentiation between them - Terrestrial and Jovian planets, exoplanets, the practical meaning of "dwarf planets", asteroids, comets, and Kuiper Belt and Trans-Neptunian Objects. Beyond this we may study stars and galaxies, star clusters, nebulae, black holes, and clusters of galaxies. Finally, we may study cosmology--the structure and history of the universe. The lab component of this course includes hands-on exercises that work to reinforce concepts covered in the lecture, and may include additional components that introduce students to the night sky.

# ASTR 1116. Introduction to Astronomy Lab, Special 1 Credit (1)

This lab-only listing exists only for students who may have transferred to NMSU having taken a lecture-only introductory astronomy class, to allow them to complete the lab requirement to fulfill the general education requirement. Consent of Instructor required. , at some other institution). Restricted to Las Cruces campus only.

Prerequisite(s): Must have passed Introduction to Astronomy lectureonly.

# ASTR 1120G. The Planets

# 4 Credits (3+2P)

Comparative study of the planets, moons, comets, and asteroids which comprise the solar system. Emphasis on geological and physical processes which shape the surfaces and atmospheres of the planets. Laboratory exercises include analysis of images returned by spacecraft. Intended for non-science majors, but some basic math required.

# AUTO-AUTOMOTIVE TECHNOLOGY (AUTO)

# AUTO 102. Electrical Measuring Instruments

2 Credits (1+2P)

Selection, operation, and care of electrical measuring instruments.

# AUTO 111. Automotive Mechanics Basics

## 4 Credits (4)

Basic maintenance procedures of the major components of the automobile using service repair manuals, hand and power tools, precision measurement equipment, fasteners and chemicals. Restricted to: Community Colleges only.

## AUTO 112. Basic Gasoline Engines 5 Credits (2+6P)

Principles of gasoline engine operation. Identification, design, function of engine components; engine disassembly and reassembly; trouble shooting, and rebuilding heads.

# AUTO 113. Automotive Electricity and Electronics PT I 4 Credits (2+4P)

Topics include mastery of DC electricity, use of digital multimeters, troubleshooting electrical problems in starting, charging and accessory systems. Restricted to Community Colleges only.

# AUTO 114. Automotive Electricity and Electronics PT II 4 Credits (2+4P)

Advanced AC and DC automotive electronic circuits. Troubleshooting electronically controlled components including supplemental restraint systems and convenience accessories. May be repeated up to 4 credits. **Prerequisite(s)/Corequisite(s):** AUTO 113. Restricted to Community Colleges campuses only.

# AUTO 115. Automotive Engine Repair

## 5 Credits (2+6P)

Principles of gasoline engine operation. Identification of engine parts, operation, and function. Disassembly and reassembly. Engine problem diagnoses (cooling system, lubrication system, engine noises). Restricted to Community Colleges only.

# AUTO 117. Electronic Analysis and Tune-Up of Gasoline Engines 5 Credits (2+6P)

Theory and operation of ignition and emission control systems and fuel system. Use of troubleshooting equipment and diagnostic equipment. **Prerequisite:** AUTO 120 or consent of instructor.

# AUTO 119. Manual Transmission/Clutch

# 5 Credits (2+6P)

Manual transmission, transfer cases, and clutch operating principles. Students will diagnose problems, remove and replace, disassemble, repair, and assemble units.

# AUTO 120. Electrical Systems

# 4 Credits (2+4P)

Troubleshooting and repair of starters, alternators, and associated circuits. Reading electrical diagrams, diagnosis and repair of electrical accessories.

Prerequisite: consent of instructor.

## AUTO 122. Automotive Brakes 4 Credits (2+4P)

Focus is on theory, diagnosis, and service of drum, disc, and anti-lock braking systems, brake component machining, hydraulic component reconditioning, friction and hardware replacement. Restricted to Community Colleges only.

# AUTO 124. Automotive Heating and Air Conditioning 4 Credits (2+4P)

R12 and R134A air conditioning systems maintenance diagnosis and repair. R12 to R134A conversion procedures. Troubleshooting automatic temperature controls and leak detection. Restricted to Community Colleges only.

# AUTO 125. Brakes

#### 5 Credits (2+6P)

Theory of operation, diagnosis, repair, and maintenance of disc and drum brakes; safety and use of special tools.

# AUTO 126. Suspension, Steering, and Alignment

## 5 Credits (2+6P)

Types of steering systems, suspension maintenance and repair, fourwheel alignment procedures.

#### AUTO 127. Basic Automatic Transmission 4 Credits (2+4P)

Theory and operation of the automatic transmission; maintenance, troubleshooting, diagnosis, and repair of components.

# AUTO 129. Automotive Steering and Suspension 4 Credits (2+4P)

Diagnosis/service of suspension components including shocks, springs, ball joints, manual and power steering systems and four wheel alignment are some areas covered. Restricted to Community Colleges only.

# AUTO 130. Introduction to Transportation Industry 3 Credits (3)

State and national traffic statutes that relate to the trucking industry. A Commercial Driver's License Learner s Permit will be obtained through successful completion of the course.

**Prerequisites:** Must be 18 years of age, have a current driver's license and consent of instructor.

# AUTO 131. Class A CDL

# 3 Credits (1+4P)

Instruction in how to perform proper pre-trip inspection; hands-on training with a tractor-trailer unit on the backing range and street driving to develop skills necessary to pass Class A DCL exam. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Class A CDL restricted license (permit) and either restriction of D.O.T.

# AUTO 132. Automotive Air-Conditioning and Heating Systems 4 Credits (2+4P)

Theory and operation, reading schematic diagrams, troubleshooting, repair, and replacement operations performed.

# AUTO 137. Fuel Systems and Emission Controls 4 Credits (2+4P)

Covers theory and operation of fuel system and emission control. Troubleshooting, vacuum diagrams, overhaul, repair and adjustment of carburetion and fuel injection.

# Prerequisites: AUTO 117 or consent of instructor.

# AUTO 139. Automotive Computer Controls

4 Credits (2+4P)

# Same as OEPM 139.

## AUTO 162. Advanced Non-Structural Repair I 4 Credits (2+4P)

This course will involve the students in all phases of minor non-structural collision damage repairs. It will encompass sheet metal repair, advanced panel replacement and alignment.

Prerequisite(s): AUTO 161.

## AUTO 163. Advanced Non-Structural Repair II 4 Credits (2+4P)

This course is a continuation of AUTO 162 with emphasis in all phases of minor non-structural damage repair. The student will be instructed in sheet metal repair and panel alignment as well as the R&I of automotive glass and related components.

Prerequisite(s): AUTO 162.

## AUTO 164. Automotive Industry Collision Repair I 4 Credits (2+4P)

This advanced course is a continuation of AUTO 161, 162, and 163. This course will incorporate all areas of major non-structural collision damage repair. Through practical application the student will learn how to effectively repair all heavy collision damage using current I-CAR repair standards and procedures.

Prerequisite(s): AUTO 163.

# AUTO 165. Automotive Industry Collision Repair II 4 Credits (2+4P)

This advanced course is a continuation of AUTO 164 with emplasis on time efficiency. This course will involve the student in all areas of major collision damage repair. The student will be exposed to all applicable I-CAR industry procedures and standards involved in sheet metal and composite panel repair.

Prerequisite(s): AUTO 164.

# AUTO 172. Introduction to Automotive Refinishing 4 Credits (2+4P)

This course is designed to incorporate all aspects of surface preparation, paint safety, refinishing materials, and refinishing fundamentals. Students will receive instructions for the application of acrylic enamel and base coat/clear coat refinishing systems.

# AUTO 174. Intermediate Automotive Refinishing 4 Credits (2+4P)

This course encompasses all areas of surface preparation, damage repair and refinishing procedures that are necessary for achieving a proper spot repair. Students will also be exposed to safe work habits in the refinishing area and correct automotive detailing procedures. **Prerequisite(s):** AUTO 172.

# AUTO 176. Automotive Color Adjustment & Blending

4 Credits (2+4P)

This course will help develop the skills needed to match any type of paint. It will expose the student to color theory, color evaluation, color matching, and other color adjustment factors. The student will be instructed in multiple panel paint blending techniques as well. **Prerequisite(s):** AUTO 174.

# AUTO 178. Automotive Overall Refinishing 4 Credits (2+4P)

This course encompasses all areas of automotive refinishing. This advanced course is a continuation of AUTO 176 with emphasis in achieving industry refinishing times and standards consistent with that of I-CAR. The student will be exposed to surface preparation and refinishing techniques involved with overall coat/clear coat refinishing system. **Prerequisite(s):** AUTO 176.

# AUTO 181. Frame and Structural Repair

# 4 Credits (2+4P)

This course will involve the student in all areas of frame and structural damage repairs. Through theory and practical application, the student will learn how to diagnose and repair various types of damage include: mash, twist, sag, and side sway. This course will expose the students to safe work habits while using measuring and straightening equipment. **Prerequisite(s):** AUTO 165.

## AUTO 182. Structural Panel Replacement 4 Credits (2+4P)

This course is a continuation of AUTO 181 with infancies in structural panel replacement. The student will be exposed to frame and unibody measuring equipment and their proper use in sectioning procedures. Through theory and practical application the student will learn how to ID structural components, properly separate spot welds, position and weld new body panels in place. **Prerequisite(s):** AUTO 181.

# AUTO 201. Engine Performance I 4 Credits (2+4P)

Theory, function, service and analysis of engine related subsystems including ignition, fuel, starting, and charging systems. Emphasis is placed on diagnosis and operation of electronic engine control management systems. Restricted to Community Colleges only.

# AUTO 203. Engine Performance II 4 Credits (2+4P)

Study of engine management systems and emission control systems, their function and relationship to vehicle performance and air pollution. Emphasis is placed on the analysis and repair of non-compliant vehicles. Restricted to Community Colleges only.

# AUTO 204. Engine Performance III

# 4 Credits (2+4P)

Study of advanced level diagnostic test procedures and the equipment used to analyze OBD-II emission and drivability concerns. Use of Digital Storage Oscilloscopes, current ramping, Scan Tool analysis of 4 and 5 gas analyzers is mastered. Hybrid vehicles and the latest engine control systems are introduced. Restricted to Community Colleges only.

# AUTO 205. Manual Drive Train and Axles

# 4 Credits (2+4P)

Operation, diagnosis, maintenance, repair or replacement of manual transmissions, clutch assemblies, differentials, drivelines, axles, and manual transaxles. Restricted to Community Colleges only.

# AUTO 206. Automatic Transmissions 5 Credits (2+6P)

Operation, diagnosis, maintenance, and repair of automatic transmissions including rear wheel drive, front wheel drive, and electronically controlled transmissions and transaxles. Restricted to Community Colleges only.

# AUTO 208. Introduction to Alternative Fueled Vehicles 3 Credits (3)

Course will familiarize student with conditions that are resulting in the alternative fueled vehicle movement as well as the design and safety precautions unique to each alternative fuel. Propulsion systems covered include electric vehicles, bio-fueled vehicles, hybrid-electric vehicles and hydrogen powered vehicles, along with other emerging technologies as appropriate. Restricted to: Community Colleges only. **Prerequisite(s):** AUTO 113 and AUTO 114.

# AUTO 209. Hybrid Vehicle Service Techniques 3 Credits (3)

Designed for experienced automotive technicians, this course will cover safety procedures, design, operational overview and service techniques as well as minor diagnosis and repair of all classifications of hybridelectric vehicles. Each student must possess legal Class '0' high voltage gloves and liners to attend this class. Restricted to: Community Colleges only.

Prerequisite(s): AUTO 113 and AUTO 114.

# AUTO 221. Cooperative Experience I

# 1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U. **Prerequisite:** consent of instructor.

# AUTO 255. Special Problems in Automotive Technology 1-5 Credits

Individual studies in areas directly related to automotive technologies. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

# AUTO 290. ASE Certification Preparation

# 1 Credit (1)

This is the capstone course for the Automotive Technology Program and is a requirement for graduation. Consent of Instructor required. Restricted to: AUTO majors. Restricted to Community Colleges campuses

# AUTO 295. Special Topics

### 1-6 Credits

Topics to be announced in the Schedule of Classes.

# **AVIM - AVIATION MAINTENANCE**

# AVIM 101. Aviation Science

# 3 Credits (3)

Provides students with basic technical mathematics skills, an overview of general physics as applied to the work of an Airframe and Powerplant (A&P) technician, and instruction in the reading and interpreting of aircraft drawings. Restricted to Alamogordo campus only. **Prerequisite(s):** Appropriate Math placement score.

# AVIM 102. Shop Practices

# 3 Credits (3)

Introduces students to specialty tools, shop safety, workplace practices, basic aviation materials and processes. Students also learn to fabricate fluid lines and fittings, identify type fasteners, and processes for nondestructive testing. Restricted to Alamogordo campus only.

# AVIM 103. Ground Operations

# 3 Credits (3)

Identifies aircraft fuels, cleaning procedures and corrosion removal, as well as ground operation procedures including safety, fueling, and startup of aircraft. Restricted to Alamogordo campus only.

# **AVIM 104. Federal Regulations**

### 2 Credits (2)

Instruction on how to read, comprehend, and apply all FAA maintenance forms and publications as related to aircraft maintenance. Also describes all rights and privileges of A & P technicians. Restricted to Alamogordo campus only.

# AVIM 105. Weight and Balance

# 2 Credits (2)

Describes proper procedures for weighing and loading aircraft and center of gravity (C.G.) safety and procedures for jacking aircraft. Restricted to Alamogordo campus only.

# AVIM 106. Basic Electricity

# 3 Credits (3)

Explains theories and principles of electricity related to aircraft circuitry. Restricted to Alamogordo campus only.

# AXED-AGRICULTURAL EXTN EDUC (AXED)

## AXED 1110. Introduction to Agricultural, Extension, and Technology Education

## 3 Credits (3)

Orientation to programs, philosophies, competencies and leadership skills needed by professionals in agricultural and technology education, extension education, agricultural communications, and related career opportunities in industry, governmental agencies, and international organizations.

# AXED 1130. Techniques in Agricultural Mechanization 3 Credits (2+2P)

Development of competencies in agricultural mechanics including safety, tool identification, operation and maintenance of hand and power tools, cold metal, drafting, and plumbing procedures. Designed for any major wishing to improve mechanical skills needed in agriculturally related occupations in education and industry.

#### AXED 2110. Metal Fabrication 3 Credits (2+4P)

Instruction and skill development in process and procedures of metal fusion, including gas and electric welding techniques, safety, and oxyacetylene cutting and welding. Designed to improve mechanical skills needed in agriculturally related occupations in education and industry.

# AXED 2120G. Effective Leadership and Communication in Agriculture 3 Credits (2+2P)

Theory and practice in leadership and communication for professionals who must work effectively in leadership and supervisory roles with people in agricultural business, industry, government agencies, and education. Course focuses on contemporary leadership theories. Oral communication skills in informative and persuasive speaking, parliamentary procedure, and for small groups are developed.

# AXED 2130. Early Field-Based Experience

# 2 Credits (2)

First Hand view of the roles of professional educators through field experiences with Cooperative Extension or other government agencies. Includes 4 weeks of classroom instruction and 30 hours of observation in a work setting. Consent of Instructor required. Restricted to Las Cruces campus only.

# AXED 2140. Early Field-Based Experience in Agricultural and Technology Education

# 2 Credits (2)

First-hand view of the roles of professional educators through field experiences in a secondary agricultural or technology education setting. Includes 4 weeks of classroom instruction and 30 hours of observations in a classroom setting. Consent of Instructor required.

# AXED 2996. Special Topics

# 1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 6 credits toward degree.

# **B A-BUSINESS ADMINISTRATION (B A)**

# **B A 104. Introduction to Business**

## 3 Credits (3)

Survey and integration of functions in business organizations within their social and economic environment. Community Colleges only.

## **B A 105. Special Topics**

#### 1-3 Credits

Current topics in business and economics.

## **B A 202. Small Business Enterprise**

### 3 Credits (3)

Appraisal of business functions within the framework of a small business organization.

## B A 291. Business Administration and Economics Internship and Cooperative Education I

## 1-3 Credits

Introduction and applications of the principles of business administration and economics. Registration in one course allowed per co-op work phase; a minimum of 12 work weeks is required. Open only to students in the College of Business. Option of S/U or a grade. The amount of academic credit (1-3 cr.) will be determined by the academic experience, and not by the work experience.

# **BCHE-BIOCHEMISTRY (BCHE)**

# BCHE 140. Introduction to Biochemistry

# 1 Credit (1)

A description of the nature of inquiry in biochemistry, especially with respect to the interaction of chemistry and biology. Both historical development and topics of current interest will be discussed. Graded S/U.

## BCHE 241. Introduction to Research in Biochemistry 1-3 Credits

Techniques and procedures of biochemical research. May be repeated for a maximum of 3 credits.

Prerequisites: 8 credits of chemistry and 3.0 GPA in chemistry.

# **BCIS-BUSINESS COMPUTER** SYSTEMS (BCIS)

# BCIS 1110. Introduction to Information Systems

### 3 Credits (3)

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communications, data analysis, information management and 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;BCT 103.

## BCT 102. Introduction to Construction II 2 Credits (2+1P)

Introduction to power and hand tools, blueprints, and basic rigging hardware and techniques. May be repeated up to 2 credits. Restricted to Community Colleges campuses only. **Corequisite(s):** BCT 101;BCT 103.

# BCT 103. Introduction to Construction Laboratory 3 Credits (3)

Provides students the opportunity to practice skills they have acquired in BCT 101 and BCT 102. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Corequisite(s):** BCT 101; BCT 102.

# BCT 104. Woodworking Skills I

## 3 Credits (1+4P)

Use and care of hand tools and elementary power tools, safety procedures, and supervised project construction.

# BCT 105. Woodworking Skills II

# 3 Credits (1+4P)

Advanced woodworking skills to include use of advanced power tools, power tool safety, and supervised construction. **Prerequisite:** BCT 104 or consent of instructor.

# BCT 106. Woodworking Theory and Practice

# 3 Credits (2+2P)

History of wood manufacturing, industrial techniques, wood characteristics, stains and finishes. Design and construction of minor wood projects.

# BCT 107. Painting I

# 4 Credits (2+4P)

Types and applications of paints and clear coatings. Use of fasteners, caulks, and sealants. Restricted to: Community Colleges only.

# BCT 109. Plumbing I

## 3 Credits (2+3P)

Covers orientation to the trade. Students will learn about materials used in the plumbing industry and the different types of plumbing fixtures. It includes task-oriented projects in which the students apply many of the skills and knowledge that are presented through the National Center for Construction and Education Research (NCCER) Plumbing Program. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): BCT 101, BCT 102. Restricted to Community Colleges campuses only.

# BCT 110. Blueprint Reading for Building Trades

# 4 Credits (2+4P)

# Same as DRFT 151, OEET 101, OEPB 110.

# BCT 111. Small Equipment Maintenance and Repair 4 Credits (2+4P)

Covers small engine theory, troubleshooting and repair, auto maintenance, hydraulic theory and repair lubricants, batteries and scheduled tool maintenance. Restricted to: Community Colleges only.

# BCT 114. Basic Carpentry

# 3 Credits (1+4P)

Covers orientation to the trade; wood building materials, fasteners, and adhesives; detailed description and explanations of hand-operated and power tools, including safety; framing basics including laying out and constructing of wood floors, walls and ceilings and includes roughing in of door and window openings. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 115; BCT 116.

## BCT 115. Carpentry Level I 3 Credits (1+4P)

Describes the various kinds of roofs and provides instructions for lay out of the different roofing systems. Describes the various types of windows, skylights, and exterior doors and provides instruction for installation. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114; BCT 116.

#### BCT 116. Basic Carpentry Lab 2 Credits (2)

Provides students the opportunity to practice skills they have acquired in BCT 114 and BCT 115. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114; BCT 115.

# BCT 117. Plumbing 1A

# 3 Credits (2+2P)

This course will introduce students to the plumbing profession. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field. Restricted to Community Colleges campuses only.

# BCT 118. Math for Building Trades 3 Credits (3)

Geometry, algebra, arithmetic, and basic trigonometry pertaining to mathematical applications in the building trades field. Same as OEET 118, DRFT 118, OEPB 118.

Prerequisite: CCDM 103 N.

# BCT 123. Residential Wiring I

### 3 Credits (2+3P)

Introduction to residential electrical wiring trade, electrical safety practices, basic electrical circuits and theory, reading and interpreting applicable construction prints/drawings, introduction to basic National Electric Code (NEC), and preparation for entry-level employment in residential electrical wiring. Restricted to Community Colleges campuses only.

# BCT 130. Professional Development and Leadership 1 Credit (1)

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing or participating in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: BCT majors. Graded: S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

### BCT 150. Forklift Operation 1 Credit (1)

Classroom instruction and hands-on practice to prepare students to operate a forklift safely in the workplace. Students will have the opportunity to earn a forklift operator's permit. Consent of Instructor required. Restricted to Community Colleges campuses only.

# BCT 200. Building Trades II

#### 8 Credits (2+12P)

Continuation of BCT 100: roofing; exterior and interior finish; masonry; door, window, and cabinet installation.

## BCT 206. Advanced Cabinetmaking

## 3 Credits (1+3P)

Advanced cabinetmaking skills, to include expert use of hand and power tools, professional construction and finishing techniques. **Prerequisites:** BCT 105, BCT 106, or consent of instructor.

#### BCT 209. Plumbing II 3 Credits (2+3P)

Continuation of BCT 109. Provides students the opportunity to gain more practice in the skills and knowledge learned in Plumbing I. Students will install fixtures and run the various plumbing supply lines from Plumbing Level I. The course included hands on projects in which the students apply many of the competencies that have been presented through the National Center for Construction and Education Research (NCCER) Plumbing Program. May be repeated up to 3 credits. **Prerequisite(s)/Corequisite(s):** BCT 109.

# BCT 217. Building and the Environment

## 3 Credits (3)

Introduction to LEED's, and Green Building Fundamentals, sustainability, sustainable design and green building evaluating cost implication of green building. Describes site development; managing site water runoff, improving a project's water use efficiency. Discusses renewable energy sources, and introduces student to generating power on-site using renewable energy sources, improving a building's indoor environment quality, improving the building industries' environmental performance and environmental aspects of building maintenance, re-use and conservation.Restricted to: Community Colleges only.

### BCT 218. Plumbing 2 4 Credits (2+4P)

This course builds on the skills and knowledge students have gained in previous BCT introduction to plumbing courses, focusing on installation of plumbing systems. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field. **Prerequisite(s):** BCT 117 and BCT 119.

## BCT 219. Weatherization in Construction

### 3 Credits (2+2P)

Introduction to industry weatherization standards and practices utilized in the construction of buildings for the purpose of energy conservation. Economic and environmental impacts of the use of energy in heating and cooling building will be examined.

Prerequisite(s): BCT 101, BCT 102 and BCT 103.

# BCT 221. Cooperative Experience I

# 1-4 Credits

Supervised cooperative work program. Student is employed in an approved occupation and is supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U. **Prerequisite:** consent of instructor.

## BCT 223. Residential Wiring II 3 Credits (2+3P)

Introduction to electrical raceways and fittings; electrical conductors and cables; basic electrical construction drawings, residential electrical services, and electrical test equipment. Restricted to Community Colleges campuses only.

Prerequisite(s): BCT 123.

# BCT 255. Special Topics

## 1-6 Credits (1-6)

Topics to be announced in the Schedule of Classes . May be repeated up to 12 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

# BCT 290. Special Problems in Building Technology

## 1-4 Credits

Individual studies in areas directly related to building technologies. **Prerequisite:** consent of instructor.

# **BFIN-BUSINESS FINANCE**

# **BFIN 2110. Introduction to Finance**

## 3 Credits (3)

Introduces tools and techniques of financial management. Includes time value of money; financial planning, diversification and risk; debt and equity investment decisions; and financial statement analysis. **Prerequisite(s):** OATS 106 or higher; OATS 120 or ACCT 2110; ECON 1110G or ECON 2110G.

# **BIOL-BIOLOGY (BIOL)**

# BIOL 1120G. Human Biology

### 3 Credits (3)

This course is an introduction to modern biological concepts with an emphasis on the relevance to humans and their relationships with the environment.

## BIOL 1120L. Human Biology Laboratory 1 Credit (3P)

This course introduces exercises, experiences, and activities exploring biological concepts and theories relevant to humans and their relationship to the environment in a laboratory setting. **Prerequisite(s)/Corequisite(s):** BIOL 1120G.

# BIOL 1130G. Introductory Anatomy & Physiology (non-majors) 4 Credits (3+3P)

This course introduces the anatomy (structure) and physiology (function) of the human body, which includes the study of basic chemistry, molecules, cells, tissues, organs, organ systems, and terminology related to these concepts. May be repeated up to 4 credits. Restricted to Community Colleges campuses

# BIOL 1190G. Contemporary Problems in Biology 4 Credits (3+3P)

Fundamental concepts of biology will be presented using examples from relevant problems in ecology, medicine and genetics. For nonscience majors only. Community Colleges only.

# BIOL 1996. Topics in Biology

# 1-3 Credits (1-3)

Introductory level coverage of biological topics. May be repeated up to 9 credits.

# BIOL 2110G. Principles of Biology: Cellular and Molecular Biology 3 Credits (3)

This course introduces students to major topics in general biology. This courses focuses on the principles of structure and function of living things at the molecular, cellular and organismic levels of organization. Major topics included are introduction to the scientific process, chemistry of cells, organization of cells, cellular respiration, photosynthesis, cell division, DNA replication, transcription, and translation. Must be taken with BIOL 2110L to meet general education requirements. May be repeated up to 3 credits.

**Prerequisite(s):** a C- or better in MATH 1215 or higher and a C- or better in CHEM 1120G or CHEM 1215G or CHEM 1216.

# BIOL 2110L. Principles of Biology: Cellular and Molecular Biology Laboratory

# 1 Credit (3P)

This course introduces students to major topics in general biology. This courses focuses on the principles of structure and function of living things at the molecular, cellular and organismic levels of organization. Major topics included are introduction to the scientific process, chemistry of cells, organization of cells, cellular respiration, photosynthesis, cell division, genetics, DNA replication, transcription, and translation. May be repeated up to 1 credits.

**Prerequisite/Corequisite(s):** BIOL 2110G;Prerequisite(s): MATH 1215 or higher, and a C- or better in CHEM 1120G or CHEM 1215G or CHEM 1216.

# BIOL 2210. Human Anatomy and Physiology I for the Health Sciences 4 Credits (3+3P)

This course is the first of two that serve as an introduction to human anatomy and physiology for biology majors and allied health students. The course entails describing, explaining, and analyzing structure and function from the submicroscopic to the organismal level with emphasis on anatomic, directional, and sectional terminology, basic cellular structure and metabolism, tissue differentiation and characteristics, and organ system structure and function; Specifically the integumentary, skeletal, muscular, and nervous systems.

**Prerequisite(s)/Corequisite(s):** CHEM 1120G or CHEM 1215G. Restricted to: Community Colleges only.

# BIOL 2221. Human Physiology

### 3 Credits (3)

Physical and chemical operation of the organs and systems of the human body. Not open to students who have passed BIOL 354 or BIOL 381. **Prerequisite(s):** Grade of at least C- in BIOL 2110G; BIOL 2110L; CHEM 1215G or CHEM 1120G.

# BIOL 2225. Human Anatomy and Physiology II 4 Credits (3+3P)

This course is the second of two that serve as an introduction to human anatomy and physiology for biology majors and allied health students. The course entails describing, explaining, and analyzing structure and function from the submicroscopic to the organismal level with emphasis on specific cellular, tissue, and organ structure and physiology, and organ system structure and function; specifically the endocrine, cardiovascular, respiratory, urinary, and reproductive systems. Additionally, an analysis of these concepts is included: fluid and electrolyte balance, pregnancy, growth and development from zygote to newborn, and heredity. Restricted to: Community Colleges only.

Prerequisite(s): BIOL 2210, CHEM 1120G or CHEM 1215G.

## BIOL 2310. Microbiology

## 3 Credits (3P)

Introduction to the basic principles of microbiology, microbial pathogenesis, host defenses and infectious diseases. The course will emphasize concepts related to the structure and function of microorganisms, including their mechanisms of metabolism and growth. Host parasite interactions will also be emphasized, including mechanisms of microbial pathogenesis and mechanisms of host defenses against infectious diseases. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEM 1120G or CHEM 1215G or CHEM 1225G. Corequisite(s): BIOL 2310L.

## BIOL 2310L. Microbiology Lab 1 Credit (3P)

This course will emphasize both the theory and hands-on application of techniques used in a microbiology laboratory for the growth and identification of bacterial species. Students will learn microscopy skills and staining techniques for the observation of bacteria. Students will also learn aseptic techniques used for isolation of bacteria, inoculation of cultures, and interpretation of selective and differential growth media for the identification of bacterial species.

Prerequisite: BIOL 2310 or BIOL 2320 or concurrent enrollment.

## BIOL 2320. Public Health Microbiology

### 3 Credits (3)

This course introduces microbiology on the health profession level. It incorporates cell structure, metabolism, growth, controls of growth, infectious epidemiology, etiology, pathogenicity, and relative virulence of pathogens. It will lead to students assessing a clinical infection scenario from the microbiological perspective that includes making diagnoses based on data from appropriate diagnostic tests, investigating appropriate treatment options, and making recommendations for prevention.

Prerequisite: BIOL 2110G and BIOL 2110L.

# BIOL 2505. Pathophysiology

### 3 Credits (3)

This course is designed to provide the conscientious student with a solid foundation for understanding the pathophysiological processes of the human organism. Successful completion of this course will promote the general student learning outcomes listed below. Corequisite/ Prerequisites(s): AHS 154 or BIOL 2225. Restricted to: Community Colleges only.

Prerequisite(s): AHS 153 or BIOL 2210.

BIOL 2511. Human Pathophysiology

### 3 Credits (3)

The first in a two-course sequence that covers changes in body physiology that result from disease or injury. Includes a general introduction to pathophysiology as well as an overview of altered cellular and tissue biology, injury, inflammation, and neoplasia. Students will also explore deviation from fluid, hemodynamic, and endocrinologic balance. Topics related to the science of pathophysiology, including pathology, pathogenesis, etiology, epidemiology, and clinical manifestations, are also discussed throughout the course where relevant. Grade of C- or higher in microbiology is recommended. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of C- or higher in BIOL 2210 and BIOL 2225.

## BIOL 2512. Human Pathophysiology I 3 Credits (3)

The second in a two-course sequence that covers changes in body physiology that result from disease or injury. This course focuses on the pathophysiology of the nervous, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Topics related to the science of pathophysiology, including pathology, pathogenesis, etiology, epidemiology, and clinical manifestations, are also discussed throughout the course where relevant. Grade of C- or higher in microbiology is recommended. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of C- or higher in BIOL 2210, BIOL 2225, and BIOL 2511.

# BIOL 2610G. Principles of Biology: Biodiversity, Ecology, and Evolution 3 Credits (3)

This course is an introduction to the dynamic processes of living things. Major topics include the mechanisms of evolution, biological diversity, Mendelian genetics, and ecology. May be repeated up to 3 credits. **Prerequisite(s)/Corequisite(s):** grade of C- or better in MATH 1215 or higher, or a Math Placement Exam score adequate to enroll in mathematics courses beyond MATH 1215.

# BIOL 2610L. Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory

### 1 Credit (3P)

This laboratory course is an introduction to the dynamic processes of living things. This course introduces students to the methods used in the study of Mendelian genetics, evolution, ecology, and biological diversity. Designed for students continuing in life sciences. May be repeated up to 1 credits.

**Prerequisite(s):** BIOL 2610G; grade of C- or better in MATH 1215 or higher, or a Math Placement Exam score adequate to enroll in mathematics courses beyond MATH 1215.

# **BIOL 2996. Special Topics**

### 1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 6 credits. Community Colleges only.

# **BLAW-BUSINESS LAW (BLAW)**

## BLAW 2110. Business Law I 3 Credits (3)

Survey of the legal environment of business and common legal principles including: the sources of law, dispute resolution and the U.S. court systems, administrative law, tort law, contract law, agency and employment law, business structure and governance, ethics and corporate social responsibility. Explores sources of liability and presents strategies to minimize legal risk. Offered at all NMSU Community Colleges except Dona Ana Community College. Credit may not be earned in both BLAW 2110 and BLAW 317.

# **BLED-BILINGUAL EDUCATION**

# BLED 1110. Introduction n Bilingual Education/ESL 3 Credits

An overview of the American Education system with emphasis on organization, governance, law, demographics, and professional practice. Will include supervised experience in bilingual education/ESL elementary settings for prospective bilingual education/ESL teachers.

## **BLED 2110. Bilingual Methods**

#### 3 Credits (3)

This course provides a historical overview of bilingual and ESL education including an emphasis on present trends and practices. Discussions of the aspects of bilingualism at both an individual and a societal level are included.

# **BMGT- BUSINESS MANAGEMENT**

# BMGT 112. Banks and Your Money

# 3 Credits (3)

Banking in today's economy: language and documents of banking, check processing, teller functions, deposit function, trust services, bank bookkeeping, loans, and investments. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

# BMGT 126. Retail Management

## 3 Credits (3)

Phases of retailing, including types of retail outlets and basic problems of organizing and operating a retail store. Restricted to: Community Colleges only.

# BMGT 132. Principles of Selling

# 3 Credits (3)

Analysis of customer behavior, persuasive communication, process of the sales interview. Restricted to: Community Colleges only.

# BMGT 136. Forecasting Business Activity

# 3 Credits (3)

Course covers the important elements of forecasting all types of business activities including inventory control, revenue forecasts, staffing, and other industry specific activities using metrics and data analysis processes. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110.

### BMGT 138. Advertising

## 3 Credits (3)

Psychological approach to non-personal consumer persuasion; applied techniques in media selection, layout mechanics, production methods, and campaign structures. Restricted to: Community Colleges only.

### BMGT 140. Principles of Supervision I

### 3 Credits (3)

Principles of supervision emphasizing planning, organization, rating of employees and procedures to develop good morale. Introduction to interpretation of case studies. Restricted to: Community Colleges only.

### BMGT 150. Income Taxation

#### 3 Credits (3)

Federal income taxation of individuals, sole proprietorships, partnerships, corporations, trusts, and estates with particular reference to CLU, life insurance and annuities. Restricted to: Community Colleges only.

# BMGT 155. Special Topics I

#### 1-3 Credits (1-3)

Introductory special topics of lower division level work that provides a variety of timely subjects and content material. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

# BMGT 160. Self-Presentation and Etiquette

# 3 Credits (3)

Introduction to business etiquette based on tradition, social expectations, and professional behavior standards. Restricted to: Community Colleges only.

# BMGT 201. Work Readiness and Preparation 3 Credits (3)

Instruction in methods of selection, seeking, acquiring and retaining employment. Addresses work success skills, business etiquette, employer expectation and workplace norms. Restricted to Community Colleges campuses only.

# BMGT 205. Customer Service in Business 3 Credits (3)

Establishes concepts of service quality in relationship to business success and maximization of returns to the organization. Explores techniques for delivering quality and service in a variety of business settings. Restricted to: Community Colleges only.

## **BMGT 208. Business Ethics**

#### 3 Credits (3)

The course examines the underlying dimensions of ethics in business, investigating ethics in relationship to the organization, the stakeholders, and society. Exploration of ethical issues from a historical context, analyzing actual events through the lens of business decision making, including legal/political, sociocultural, economic, and environmental considerations will be undertaken. Restricted to Community Colleges campuses only.

## BMGT 216. Business Math

### 3 Credits (3)

Application of basic mathematical procedures to business situations, including percentage formula applications, markup, statement analysis, simple and compound interest, and annuities. Restricted to: Community Colleges only.

Prerequisite(s): CCDM 103 N or satisfactory math score on ACT.

## BMGT 221. Internship I

#### 1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: BMGT majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

# BMGT 225. Introduction to Commercial Lending

#### 3 Credits (3)

Commercial lending overview, the lending process, portfolio management, and regulation and business development. Restricted to: Community Colleges only.

Prerequisite(s): BMGT 112.

## **BMGT 232.** Personal Finance

#### 3 Credits (3)

Budgeting, saving, credit, installment buying, insurance, buying vs. renting a home, income tax statement preparation, investment, and estate disposal through will and trust. Restricted to: Community Colleges only.

### BMGT 236. Small Business Start-Up

#### 3 Credits (3)

Starting a small business is a complex endeavor that requires specialized knowledge. This course prepares students to take the first step in business ownership and operations. Restricted to Community Colleges campuses

# BMGT 237. Managing Small Businesses

## 3 Credits (3)

Managing a small business requires the owner/operator to be proficient in a number of skills and technical areas. This course provides small business owners/operators with the training and essential knowledge to manage a small business. Restricted to Community Colleges campuses

## **BMGT 240. Human Relations**

## 3 Credits (3)

Human interactions in business and industrial settings. Motivation and learning experiences as related to problems of the worker and supervisor. Practical applications of human behavior. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

# BMGT 247. Customer Relationship Management

## 3 Credits (3)

The course addresses the application of positive customer relationship practices and demonstrates the connection between managing excellent customer experiences and business success. Customer related decision making processes through the use of data based decision matrices are introduced. Restricted to Community Colleges campuses

# BMGT 248. Introduction to Quality Management 3 Credits (3)

Introductory practices of total quality management practices aimed at all levels of an organization to continually improve performance to include competitiveness in today s business world. Restricted to: Community Colleges only.

# BMGT 250. Diversity in the Workplace

## 3 Credits (3)

Concepts of culture, diversity, prejudice, and discrimination within the domestic workforce/society. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110.

# **BMGT 260. Real Estate Practice**

### 3 Credits (3)

This course is a requirement for licensure in real estate for the state of New Mexico. Topics covered include: real estate finance, settlement, foreclosure, federal taxation, valuation and appraisal, land descriptions and math skills. These topics are requirements of the New Mexico Real Estate Commission. Restricted to: Community Colleges only.

### BMGT 264. Real Estate Law

### 3 Credits (3)

This course is a requirement for licensure in real estate for the state of New Mexico. Topics covered include: ownership of real estate, real estate brokerage relationships, contracts, environmental concerns and federal laws that affect real estate. These topics are requirements of the New Mexico Real Estate Commission. Restricted to: Community Colleges only. Crosslisted with: PL S 264

# BMGT 272. E-Commerce Operations 3 Credits (3)

Includes the many forms of e-commerce and emerging technologies that will impact the business of tomorrow. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 105 or BCIS 1110.

# BMGT 277. Entrepreneurship II - Small Business Management 3 Credits (3)

This course is designed to acquaint the student with the opportunities encountered in the management and operations of a small business enterprise. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ENTR 1110.

# BMGT 280. Introduction to Human Resources 3 Credits (3)

Personnel functions encompassing job analysis, recruitment, selection, training, appraisals, discipline, and terminations. Prerequisite(S): BUSA 1110 or B A 104. Restricted to Community Colleges campuses only.

# BMGT 282. Introduction to International Business Management 3 Credits (3)

Overview of the social, economic and cultural environment of international business transactions. Restricted to Community Colleges only.

Prerequisite(s): BUSA 1110.

# BMGT 285. Introduction to Manufacturing Operations 3 Credits (3)

Introduction to issues related to manufacturing, including an overview of the production function, product design and development, location, layout, forecasting, planning, purchasing, materials/inventory, and quality management. Restricted to Community Colleges campuses only. **Prerequisite(s):** BUSA 1110 and (BMGT 140 or MGMT 2110).

# BMGT 286. Introduction to Logistics

### 3 Credits (3)

Overview on the planning, organizing, and controlling of transportation, inventory maintenance, order processing, purchasing, warehousing, materials, handling, packaging, customer service standards, and product scheduling. Restricted to: Community Colleges only.

# BMGT 287. Introduction to Export/Import

# 3 Credits (3)

Procedures and documentation for exporting and importing products. Emphasis on NAFTA regulations and other U.S. border operations crossings. Restricted to Community Colleges only. **Prerequisite(s):** BUSA 1110.

# BMGT 290. Applied Business Capstone 3 Credits (3)

Refines skills and validates courses taken in BMGT program. Business simulations, case studies and projects used to test and improve business practices. Student must be within 25 credits of graduation. May be repeated up to 3 credits. Restricted to: BMGT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110, and (BMGT 140 or MGMT 2110), and (BMGT 240 or SOCI 1110G or PSYC 1110G), and MKTG 2110 and BFIN 2110.

# BMGT 298. Independent Study

### 3 Credits (3)

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Sophomore standing with 3.0 GPA.

# BOT-BUSINESS OFFICE TECHNOLOGY (BOT)

# BOT 298. Independent Study

## 1-3 Credits

Individual studies directed by consenting faculty with prior approval of department head. May be repeated for a maximum of 3 credits. **Prerequisite:** sophomore standing with 3.0 GPA.

# **BUSA-BUSINESS ADMINISTRATION** (BUSA)

# BUSA 1110. Intro to Business

## 3 Credits (3)

Fundamental concepts and terminology of business including areas such as management, marketing, accounting, economics, personnel, and finance; and the global environment in which they operate.

# **C E-CIVIL ENGINEERING (C E)**

# C E 109. Computer Drafting Fundamentals

3 Credits (2+2P)

Same as DRFT 109, E T 109, SUR 109.

# C E 151. Introduction to Civil Engineering

# 3 Credits (3)

Problem solving and use of computer software for civil engineering applications. May be repeated up to 3 credits. **Prerequisite(s)/Corequisite(s):** MATH 1220G.

# C E 198. Special Topics

### 1-3 Credits

May be repeated for a maximum of 6 credits. **Prerequisite:** consent of department head.

# C E 233. Mechanics-Statics

## 3 Credits (3)

Engineering mechanics using vector methods. May be repeated up to 3 credits.

**Prerequisite(s):** MATH 1521G or MATH 1521H, PHYS 1310G and cumulative GPA of 2.0.

# C E 234. Mechanics-Dynamics

### 3 Credits (3)

Kinematics and dynamic behavior of solid bodies utilizing vector methods. May be repeated up to 3 credits. Crosslisted with: M E 234. **Prerequisite(s):** C E 233, MATH 1521G or MATH 1521H, PHYS 1310G.

# C E 256. Environmental Engineering and Science

### 3 Credits (3)

Principles in environmental engineering and science: physical chemical systems and biological processes as applied to pollution control. Crosslisted with: ENVS 2111

Prerequisite(s): CHEM 1215G and MATH 1511G.

#### C E 256 L. Environmental Science Laboratory 1 Credit (1P)

Laboratory experiments associated with the material presented in C E 256. Same as ENVS 2111L. Corequisite(s): C E 256.

# C E 298. Special Topics

## 1-3 Credits

May be repeated for a maximum of 6 credits. **Prerequisite:** consent of department head.

# **C S-COMPUTER SCIENCE (C S)**

# C S 111. Computer Science Principles

# 4 Credits (3+2P)

This course provides a broad and exciting introduction to the field of computer science and the impact that computation has today on every aspect of life. It focuses on exploring computing as a creative activity and investigates the key foundations of computing: abstraction, data, algorithms, and programming. It looks into how connectivity and the Internet have revolutionized computing and demonstrates the global impact that computing has achieved, and it reveals how a new student in computer science might become part of the computing future. **Prerequisite(s):** MATH 1215 or higher.

# C S 117. Introduction to Computer Animation

# 3 Credits (3)

Introductory course for learning to program with computer animation as well as learning basic concepts in computer science. Students create interactive animation projects such as computer games and learn to use software packages for creating animations in small virtual worlds using 3D models. Recommended for students considering a minor/major in computer science or simply interested in beginning computer animation or programming.

# C S 151. C++ Programming

3 Credits (2+2P)

Introduction to object-oriented programming in the C++ language. May be repeated up to 3 credits.

Prerequisite(s): MATH 1215 or higher.

# C S 152. Java Programming

### 3 Credits (2+2P)

Programming in the Java language. May be repeated up to 3 credits. **Prerequisite(s):** MATH 1215 or higher.

# C S 153. Python Programming I

## 3 Credits (3)

This course is an introduction to programming in the Python language, covering fundamental scripts, data types and variables, functions, and simple object creation and usage. The focus will be on preparing students to use Python in their own areas. No prior programming experience is required.

Prerequisite(s): MATH 1215 or higher.

# C S 154. Python Programming II

## 3 Credits (3)

This course covers advanced Python programming, including classes, objects, and inheritance, embedded programming in domain applications, database interaction, and advanced data and text processing. The focus will be on preparing students to use Python in their own areas. **Prerequisite(s):** C S 153 or C S 453.

# C S 157. Topics in Software Programming and Applications 3 Credits (2+2P)

Current topics in computer programming and software applications. Topic announced in the Schedule of Classes. May be repeated if subtitle is different.

# C S 158. R Programming I

# 3 Credits (3)

This course is an introduction to data processing in the R language, covering fundamental script configuration, data types and data collections, R control structures, and basic creation of graphs and data visualizations. This course will not focus on the statistical capabilities of R, though some basic statistical computations will be used. **Prerequisite(s):** MATH 1220G.

# C S 171G. Introduction to Computer Science 4 Credits (3+2P)

Computers are now used widely in all area of modern life. This course provides understanding of the theoretical and practical foundations for how computers work, and provides practical application and programming experience in using computers to solve problems efficiently and effectively. The course covers broad aspects of the hardware, software, and mathematical basis of computers. Weekly labs stress using computers to investigate and report on data-intensive scientific problems. Practical experience in major software applications includes an introduction to programming, word processing, spreadsheets, databases, presentations, and Internet applications.

Prerequisite(s): MATH 1130G or MATH 1215 or higher.

# C S 172. Computer Science I

## 4 Credits (3+2P)

Computational problem solving; problem analysis; implementation of algorithms using Java. Object-oriented concepts, arrays, searching, sorting, and recursion. May be repeated up to 4 credits. Crosslisted with: C S 460.

**Prerequisite(s):** (A C or better in either MATH 1250G or MATH 1430G) OR (A C or better in MATH 1220G and a 1 or better in the CS Placement Test).

## C S 209. Special Topics.

### 1-3 Credits

May be repeated for a maximum of 12 credits.

## C S 271. Object Oriented Programming 4 Credits (3+2P)

Introduction to problem analysis and problem solving in the objectoriented paradigm. Practical introduction to implementing solutions in the C++ language. Pointers and dynamic memory allocation. Handson experience with useful development tools. May be repeated up to 4 credits.

Prerequisite(s): At least a C- in C S 172 or E E 112.

# C S 272. Introduction to Data Structures

### 4 Credits (3+2P)

Design, implementation, use of fundamental abstract data types and their algorithms: lists, stacks, queues, deques, trees; imperative and declarative programming. Internal sorting; time and space efficiency of algorithms.

Prerequisite(s): At least a C- in C S 172, or placement.

# C S 273. Machine Programming and Organization 4 Credits (3+2P)

Computer structure, instruction execution, addressing techniques; programming in machine and assembly languages. May be repeated up to 4 credits.

Prerequisite(s): At least a C- in C S 172 or E E 112.

## C S 278. Discrete Mathematics for Computer Science 4 Credits (3+2P)

Discrete mathematics required for Computer Science, including the basics of logic, number theory, methods of proof, sequences, mathematical induction, set theory, counting, and functions. **Prerequisite(s):** At least C- in C S 172.

# CCDE-DEVELOPMENTAL ENGLISH (CCDE)

# CCDE 105 N. Effective Communication Skills

## 4 Credits (3+2P)

Instruction and practice in basic communication, to include written and oral presentations. Develops thinking, writing, speaking, reading, and listening skills necessary for successful entry to college and university classes. Provides laboratory. RR applicable.

# CCDE 110 N. General Composition

# 4 Credits (3+2P)

Instruction and practice in preparation for college-level writing. Students will develop and write short essays. Provides laboratory. May be repeated up to 4 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

# CCDM-DEVELOPMENTAL MATHEMATICS (CCDM)

# CCDM 100 N. Mathematics Preparation for College Success 1-4 Credits

Mathematics skills course designed for college students with math skills insufficient for success in CCDM 103N. May be repeated for a maximum of 4 credits. RR applicable.

# CCDM 103 N. Pre-Algebra

# 4 Credits (3+2P)

Fundamental mathematics operations and arithmetic computations. Introduction to algebra and applied geometry. Provides laboratory and individualized instruction. RR applicable.

# CCDM 105 N. Mathematics Preparation and Pre-Algebra 5 Credits (4+2P)

A total immersion course that combines CCDM 100N and CCDM 103N using tutorials, manipulatives, and classroom instruction. Completion of this class is equivalent to the completion of CCDM 100N and CCDM 103N. Restricted to: Community Colleges only.

# CCDM 107 N. Pre-Algebra Fast-Track

### 1 Credit (1)

An intensive review of fundamental mathematics operations and arithmetic computations. A review of introductory concepts of algebra and applied geometry. Students must meet eligibility requirements (Math Placement Exam). Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Math Placement Exam.

## CCDM 108 N. Beginning Algebra Fast-Track 1 Credit (1)

An intensive review of fundamental algebra topics including algebraic expressions, solving linear and quadratic equations, factoring, radicals, exponents. Students must meet eligibility requirements (math placement exam or completion of CCDM 107N). Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

**Prerequisite(s):** Math Placement Exam; or passing score in CCDM 105 N or CCDM 103 N, or CCDM 107 N.

# CCDM 112 N. Developmental Algebra I 4 Credits (3+2P)

Fundamental algebra operations, algebraic expressions, solving linear equations, systems of equations and applications of linear equations. Introduction to exponents and polynomials. Provides laboratory instruction. Completion of CCDM 112N and CCDM 113N is equivalent to completion of CCDM 114N. Graded: Traditional with RR. Traditional Grading with RR. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of C or better in CCDM 103N or CCDM 105N or adequate placement score.

# CCDM 113 N. Developmental Algebra II 4 Credits (3+2P)

Fundamental algebra operations, polynomials, factoring, solving quadratics by factoring, rational expressions, exponents and radical expressions (continuation of CCDM 112N). Provides laboratory instruction. Completion of CCDM 112N and CCDM 113N is equivalent to completion of CCDM 114N. Graded: Traditional with RR. Restricted to: Community Colleges only.

**Prerequisite(s):** Grade of C or better in CCDM 112N or consent of instructor.

# CCDM 114 N. Algebra Skills

# 4 Credits (3+2P)

Fundamental algebra operations: algebraic expressions, solving linear and quadratic equations, factoring, radicals, exponents. Provides laboratory and individualized instruction. Completion of CCDM 114N meets basic skills requirement. Graded: Traditional with RR. Traditional Grading with RR. Restricted to Community Colleges campuses only. **Prerequisite(s):** C or better in CCDM 103N or CCDM 105N or adequate placement score.

# CCDR-DEVELOPMENTAL READING (CCDR)

# CCDR 103 N. Comprehensive Reading Development 4 Credits (3+2P)

Provides integration of basic reading skills, including vocabulary development, text comprehension, and critical reading skills. Course earns institutional credit but will not count towards degree requirements. May be repeated up to 4 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

Prerequisite(s): Appropriate placement score.

# CCDR 105 N. Fundamentals of Academic Reading.

# 3 Credits (2+2P)

Fundamentals of academic reading skills. Emphasis on vocabulary development and text comprehension through literature based instruction. Course earns institutional credit but will not count towards degree requirements. Graded: Traditional with RR. May be repeated up to 3 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

## CCDR 110 N. Effective College Reading 3 Credits (2+2P)

Provides a variety of strategies for effective reading and studying at the college level. Emphasis on reading across disciplines. Course earns institutional credit but will not count towards degree requirements. Graded: Traditional with RR. May be repeated up to 3 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only. **Prerequisite(s):** Appropriate placement score.

# CCDS-DEVELOPMENTAL SKILLS (CCDS)

# CCDS 109 N. Study Skills for Reading

## 1-3 Credits

Individualized reading skill strategies necessary for success in college classroom. May be repeated for a maximum of 3 credits. Graded traditional or S/U.

# CCDS 111 N. Study Skills for Math

# 1-3 Credits

Individualized study skill strategies necessary for success in the math classroom. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

# CCDS 113 N. Study Skills for English 1-3 Credits

Individualized study skill strategies necessary for success in the composition classroom. May be repeated for a maximum of 3 credits.

# CCDS 119 N. College Reading and Writing 4 Credits (4)

Instruction and practice in preparation for college-level reading and writing. Students will develop and write essays, work on the writing process, and learn to read and analyze college-level texts. Traditional Grading with RR.

Prerequisite(s): Appropriate placement test score.

# CEPY-COUNSELING & EDUCATIONAL PSYCHOLOGY

# CEPY 1120G. Human Growth and Behavior

3 Credits (3)

Introduction to the principles of human growth and development throughout the life span.

# **CEPY 1150.** Career Development

# 1 Credit (1)

Professional career curriculum to assist students in developing an understanding and ability to articulate who they are as emerging professionals through personal assessment activities. The focus will be on providing students with tools and strategies for reflection, planning, and goal-setting.Course does not count toward CEP minor. Spring only course offering. Restricted to: College of Education Majors only majors. Restricted to Las Cruces campus only.

Prerequisite(s): Appropriate placement score.

# **CEPY 1160. Academic Development**

## 1 Credit (1)

The course is designed to provide you students with a foundation in their personal academic process. The course will assist students in developing an understanding and ability to articulate who they are as beginning college students through personal assessment activities. The focus will be on providing students with tools and strategies for reflection, planning, and goal-setting. Topics discussed will include time management, study skills, test taking skills, stress management, motivational and academic discipline skills, interpersonal skills and college survival skills. We intend for this to be a supportive, respectful and collaborative environment where everyone can learn and grow. Fall only course offering. Restricted to: College of Education majors.

# CEPY 2110. Learning in the Classroom

## 3 Credits (3)

This class introduces you to the basic principles of learning, including cognition, motivation, and assessment. You will examine the relationships between theory, research, and practice in learning, memory, child development, motivation, and educational assessment for the school setting. This course will provide the student with concepts and principles of educational psychology that will form a framework for thinking about learning and instruction and how theories of learning are connected to classroom situations

**CEPY 2120. The Preschool Child** 

## 3 Credits (3)

Survey of psychological development from conception to age five.

## CEPY 2130. Adolescence - School Setting 3 Credits (3)

This course is designed to present the student with an introduction to the area of adolescent development with an emphasis on the positive aspects of this life stage. Students will be encouraged to be reflective on the topics presented in class that will include issues on diversity, culture, health, and well-being, emerging adulthood and suggestions for improving the lives of adolescents.

# CEPY 2140. Explorations of Counseling & Community Psychology 3 Credits (3)

An introduction and exploration of various career options and functions within the mental health disciplines to aid in professional development. Emphasis will be placed on depth and scope of the choices available including research, teaching, community work, public policy, and clinical work and prevention (e.g. counseling, psychotherapy, assessment, consultation). May be repeated up to 6 credits.

## CEPY 2140H. Exploration of CCP 3 Credits (3)

An exploration of careers, activities, & techniques in counseling, school, and community psychology. Taught with CEPY 2140 with differentiated instruction and/or independent project to be determined. Restricted to Las Cruces campus only.

# **CHEF-CULINARY ARTS (CHEF)**

### CHEF 101. Culinary Arts Kitchen Orientation 3 Credits (3)

Provides students with basic information and skills necessary for success in the Culinary Arts program. Students learn basic kitchen routines, safety and sanitation, professional conduct and deportment, standard kitchen calculations, knife handling, and are introduced to the laboratories for initial cooking experiences. Restricted to Community Colleges campuses only.

## CHEF 125. Introductory Cake Decorating 1 Credit (2P)

Introduction to the professional cake decorating techniques used by pastry chefs. Basic skills of piping a variety of icings into different patterns are taught. Restricted to Community Colleges campuses only. Prerequisite(s): Consent of instructor.

# CHEF 126. Intermediate Cake Decorating

# 1 Credit (2P)

Introduction to more advanced professional cake decorating techniques used by pastry chefs. Fondant work and more complex decorating schemes are taught. Restricted to Community Colleges campuses only. Prerequisite(s): CHEF 125.

# CHEF 127. Chocolate Work

## 1 Credit (2P)

Introduction to working with chocolate utilizing a variety of methods. Tempering, forming, molding, and other professional techniques will be taught. Restricted to Community Colleges campuses only. Prerequisite(s): Consent of Instructor.

# CHEF 128. Advanced Chocolate Work

## 1 Credit (2P)

More advanced treatments of chocolate are explored and professional techniques for the chocolatier are developed. Restricted to Community Colleges campuses only.

# Prerequisite(s): CHEF 127.

## CHEF 129. Wedding Cake Design and Construction 1 Credit (2P)

Basic skills in designing wedding (or other specialty event) cakes. Includes shaping, icing selection, decorating scheme, presentation, transportation, and remote set up. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 125 and CHEF 126.

# **CHEF 155. Special Topics**

### 1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

# CHEF 165. Math for Kitchen Operations 3 Credits (3)

Fundamental mathematical concepts and computations, including measurement, recipe scaling and conversions, metric unit conversion, ingredient yield calculations, ratios and cost extensions are covered. Examples of basic mathematical calculations use kitchen and food service functions, as well as situations to demonstrate principles.

## CHEF 211. Food Production Management I 3 Credits (2+2P)

Introduction to kitchen design, workflow, and commercial equipment. Techniques, methods, and application of basic food production principles. Practical experience in cooking processes from a managerial viewpoint. Crosslisted with: HOST 211. Restricted to Community Colleges only.

## CHEF 212. Food Production Management II 3 Credits (2+2P)

Selection and use of ingredients. Demonstration and application of classical and modern cooking and preparation techniques. Management techniques for kitchen personnel. Recipe design and analysis. Crosslisted with: HOST 212. Restricted to Community Colleges only. Prerequisite(s): CHEF 211 or consent of instructor.

## CHEF 213. Bakery Management I 3 Credits (2+2P)

Fundamentals of baking from a supervisory/management perspective. Exposure to commercial equipment and processes. Introduction to commercial alternatives to scratch-preparation methods. Crosslisted with: HOST 213. Restricted to Community Colleges only.

# CHEF 214. Bakery Management II 3 Credits (2+2P)

Advanced techniques and management of bakery operations are explored. Students learn classical forms and techniques. Modern methods of preparing traditional pastry and baked goods are introduced. Crosslisted with: HOST218. Restricted to Community Colleges only. **Prerequisite(s):** CHEF 213 or consent of instructor.

## CHEF 233. Culinary Arts Fundamentals I 4 Credits (1+9P)

Introduction to the basics of culinary arts, including ingredients recognition, cooking methods and techniques, knife usage, preparation of basic stocks, mother sauces, starches and vegetables. Students will participate in laboratory work designed to create an understanding of the professional role of the culinarian. Preparation and production of food products integral to service to guests is incorporated in the course. May be repeated up to 4 credits. Consent of Instructor required. Restricted to: CHEF, HOST, HSMG, HOCH majors. Restricted to Community Colleges campuses only.

# CHEF 234. Culinary Arts Fundamentals II 4 Credits (1+9P)

Continuation of introductory course focusing on meat cookery, daughter sauces, cold food preparation, poultry and seafood. Safe use of equipment is emphasized while experiencing differing methods of preparation and cooking. Preparation and production of food products integral to service of guests is incorporated in this course. May be repeated up to 4 credits. Restricted to: HOST,HSMG,CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 233 with a grade of 'C-' or better.

# CHEF 235. Advanced Culinary Arts I

# 4 Credits (1+9P)

Exploration and experience in preparation techniques beyond the basic level. Nutritional components of food are discussed, as in the application of good nutrition practices in recipe design. Students are encouraged to use creative methods to expand the individual's culinary expressions. Prepares food products for service to guests in both bulk feeding and individual service settings. Plans, prepares, serves and critiques meals provided for students, faculty and staff. May be repeated up to 4 credits. **Prerequisite(s)/Corequisite(s):** CHEF 234 with a grade of 'C' or better if course has been previously taken. Restricted to: CHEF majors. Restricted to Community Colleges campuses only.

# CHEF 236. Advanced Culinary Arts II

### 4 Credits (1+9P)

Advanced techniques and experimental use of food combinations to enhance the student's repertoire of skills and abilities. Utilizes knowledge to develop recipes for unique products. Plans, prepares, serves and critiques meals provided for students, faculty and staff. Restricted to: CHEF majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** CHEF 235 with a grade of 'C' or better.

## CHEF 237. Banquet/Catering Production 3 Credits (1+6P)

Planning and implementation of the culinary aspects of catered functions. Development of time schedules, work assignments and service plans for catered events and banquet functions. Production of food items in appropriate quantities for catered events. Costing and control functions are covered. May be repeated up to 6 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of 'C' or above in CHEF 233.

# CHEF 240. Baking Fundamentals I

# 4 Credits (1+9P)

Introduction to baking techniques, measurment and use of ingredients; equipment use and chemical reactions inherent in the baking process. Production of simple desserts and baked goods. Itroduction to working with bread doughs. Restricted to: HOST,CHEF majors. Restricted to Community Colleges campuses only.

Corequisite(s): CHEF 233.

# CHEF 241. Baking Fundamentals II 4 Credits (1+9P)

More advanced baking and bread making techniques are covered in this course with emphasis on the more advanced elements of quantity production. Students work with a variety of products and ingredients. Restricted to: HOST, CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): grade of 'C' or above in CHEF 240.

# CHEF 242. Intermediate Baking I

## 4 Credits (1+9P)

More advanced baking and pastry techniques are covered in this course with emphasis on the basic elements of patisserie production. Focus is on preparing students to work in a pastry kitchen. Restricted to: HOST, CHEF majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of 'C' or above in CHEF 241.

# CHEF 243. Intermediate Baking II 4 Credits (1+9P)

Continuation of work with basic elements of patisserie products including laminated doughs and filled products. Students prepare creams, custards, fillings and are introduced to cake assembly procedures. Restricted to: CULI majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of 'C' or above in CHEF 242.

# CHEF 255. Special Topics

### 3 Credits (3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to: CULI, HOST, HSMG majors. Restricted to Community Colleges campuses only.

# CHEF 256. International Cuisine

### 3 Credits (1+6P)

Exploration into a variety of international cuisines is undertaken, including the cultural and historical backgrounds of the foods being prepared. Students work on developing themed menus and production plans for meals utilizing a single international cuisine. May be repeated up to 6 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of 'C' or above in CHEF 233.

# CHEF 257. Garde Manger

# 3 Credits (1+6P)

Traditional garde manger skills are taught, including plated salads, cold foods, entrements, pates, forcemeat, terrines, charcuterie and chaud froid work. The art and craft of food design, preparation and service are emphasized. May be repeated up to 3 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of 'C' or above in CHEF 233.

CHEF 260. Nutrition for Chefs

## 3 Credits (3)

Aspects of basic human nutritional requirements are covered as are the applications of the standards to the cooking and baking. Meeting the USDA nutrient guidelines while preparing good tasting food is discussed, calorie, fat and sodium reduction techniques are explored.

# **CHEM-CHEMISTRY (CHEM)**

## CHEM 1111. Basic Chemistry

### 3 Credits (3)

For students whose preparatory science or math training has been deficient. Does not meet the chemistry requirement in any curriculum. **Prerequisite:** Enhanced ACT composite score of at least 18 or a grade of C- or better in CCDM 114 N.

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

# 4 Credits (3+3P)

This course covers qualitative and quantitative areas of non-organic general chemistry for non-science majors and some health professions. Students will learn and apply principles pertaining, but not limited to, atomic and molecular structure, the periodic table, acids and bases, mass relationships, and solutions. The laboratory component introduces students to techniques for obtaining and analyzing experimental observations pertaining to chemistry using diverse methods and equipment.

Prerequisite: CCDM 114N or A S 103 or MATH 1215 or higher.

## CHEM 1121. General Supplemental Instruction I 1 Credit (1)

Collaborative workshop for students in General Chemistry I. Course does not count toward departmental degree requirements. May be repeated for a maximum of 2 credits.

Corequisite(s): CHEM 1215G.

# CHEM 1122. General Supplemental Instruction II 1 Credit (1)

Collaborative workshop for students in General Chemistry II. Course does not count toward departmental degree requirements. May be repeated for a maximum of 2 credits.

Corequisite(s): CHEM 1225G.

## CHEM 1123. Principles of Supplemental Instruction III 1 Credit (1)

Collaborative workshop for students in CHEM 1120G, Principles and Applications of Chemistry. Course does not count toward departmental degree requirements. May be repeated for maximum of 2 credits. **Corequisite(s):** CHEM 1120G.

# CHEM 1215G. General Chemistry I Lecture and Laboratory for STEM Majors

## 4 Credits (3+3P)

This course covers descriptive and theoretical chemistry. **Prerequisite:** (1) grade of C- or better in MATH 1215 or higher, or a Mathematics Placement Exam Score adequate to enroll in mathematics courses beyond MATH 1215.

# CHEM 1216. General Chemistry I Lecture and Laboratory for CHEM Majors

## 4 Credits (3+3P)

As the first of a two-semester sequence, this course teaches fundamental concepts in chemistry, including the electronic structure of atoms, chemical periodicity, nature of chemical bonds, molecular structure, the three phases of matter, etc. Designed for majors in chemical and other physical sciences, including engineering. May be appropriate for the life science major. It is assumed that the students are familiar with college algebra, chemical nomenclature, stoichiometry, and scientific measurements. The laboratory component is designed to complement the theory and concepts presented in lecture, and will introduce students to techniques for obtaining and analyzing experimental observations pertaining to chemistry using diverse methods and equipment. **Prerequisite(s):** Eligible to take MATH 1250G and an ACT composite score of 22 or higher.

# CHEM 1225G. General Chemistry II Lecture and Laboratory for STEM Majors

## 4 Credits (3+3P)

This course is intended to serve as a continuation of general chemistry principles for students enrolled in science, engineering, and certain preprofessional programs. The course includes, but is not limited to a theoretical and quantitative coverage of solutions and their properties, kinetics, chemical equilibrium, acids and bases, entropy and free energy, electrochemistry, and nuclear chemistry. Additional topics may include (as time permits) organic, polymer, atmospheric, and biochemistry. The laboratory component is designed to complement the theory and concepts presented in lecture, and will introduce students to techniques for obtaining and analyzing experimental observations pertaining to chemistry using diverse methods and equipment. **Prerequisite(s):** C- or better in CHEM 1215G.

CHEM 1226. General Chemistry II Lecture and Laboratory for CHEM Majors

# 4 Credits (3+3P)

As the second of a two-semester sequence, this course teaches fundamental concepts in chemistry, including solutions, equilibria, electrochemistry, thermodynamics and kinetics. Designed for majors in chemical and other physical sciences, including engineering. May be appropriate for the life science major. It is assumed that the students are familiar with college algebra, chemical nomenclature, stoichiometry, and scientific measurements. The laboratory component is designed to complement the theory and concepts presented in lecture, and will introduce students to techniques for obtaining and analyzing experimental observations pertaining to chemistry using diverse methods and equipment.

Prerequisite(s): C- or better in CHEM 1216.

# CHEM 2111. Explorations in Chemistry 1 Credit (1)

The major intent of this course is to deepen your interest in chemistry and make you aware of research and career opportunities in the field. During this semester we hope to discuss both old and new developments in chemistry that impact our lives. We also want to build our communication skills that are so necessary in our profession. Graded S/U.

# CHEM 2115. Survey of Organic Chemistry and Laboratory 4 Credits (3+3P)

This course is a one -semester survey of organic and biological chemicals. Students will be introduced to nomenclature, molecular structure, properties, and reactions of hydrocarbons, alcohols, carbonyls, organic acids and bases, carbohydrates, lipids, and proteins. The handling of organic chemicals, simple organic reactions, tests for functional groups, and synthesis will be learned in the laboratory component of this course. May be repeated up to 4 credits. **Prerequisite(s):** CHEM 1225G.

# CHEM 2120. Integrated Organic Chemistry and Biochemistry 3 Credits (3)

This course is a one- semester introduction to Organic Chemistry and Biochemistry designed for students in health and environmental occupations. The course surveys organic compounds in terms of structure, physical, and chemical properties, followed by coverage of the chemistry of specific classes of organic compounds in the biological environment. Students will apply course concepts to everyday organic and biological chemistry problems in preparation for careers in health and environmental fields.

Prerequisite: CHEM 1120G or CHEM 1215G.

# CHEM 2226. General Chemistry III

# 3 Credits (2+3P)

Quantitative aspects of general chemistry: solid state structure, equilibrium, thermodynamics, and kinetics. Required of chemical science majors who have taken CHEM 1215G/1225G. **Prerequisite:** CHEM 1225G.

# CHEM 2991. Introduction to Research

# 1-3 Credits (3+9P)

Techniques and procedures of chemical research. May be repeated for a maximum of 3 credits.

Prerequisites: 8 credits of chemistry and a 3.0 GPA in chemistry.

# CHEM 2996. Special Topics in Chemistry

# 1-6 Credits (1-6)

Specific subjects in Chemistry. These subjects will be announced in the 'Schedule of Classes'. It may be repeated under different topics for a maximum of 12 credits.

# **CHIN-CHINESE (CHIN)**

# CHIN 1110. Mandarin Chinese I 4 Credits (4)

This is the first semester of a two-semester sequence in first year modern standard Chinese ("Mandarin"). This course is recommended for students who have had little or no experience in the Chinese language. A beginning Mandarin Chinese course is designed to introduce the Mandarin sound system ("pinyin"), basic vocabulary, Chinese characters (either in Simplified or Traditional characters), and basic grammatical concepts and structures. In order to help beginners develop their communicative competence in the four basic skills, the 5Cs (Communication, Cultures, Comparisons, Connections, and Communities) will be integrated consistently into the content and exercises in the course.

# CHIN 1120. Mandarin Chinese II 4 Credits (4)

This is the second semester of a two-semester sequence in first year modern standard Chinese ("Mandarin"). This course is designed for students who have taken 1 st Semester Mandarin Chinese, and focuses on enhancing pronunciation and expanding the vocabulary and grammar dealing with daily activities. In order to help beginners develop their communicative competence in the four basic skills, the 5Cs (Communication, Cultures, Comparisons, Connections, and Communities) will be integrated consistently into the content and exercises in the course.

Prerequisite(s): C or better in CHIN 1110.

# CHIN 2110. Mandarin Chinese III

# 3 Credits (3)

This is the first semester of a two-semester sequence in second year modern standard Chinese ("Mandarin"). This course is designed for students who have taken 1st and 2nd Semester Mandarin Chinese (or equivalence), and have a basic foundation on Chinese phonetics, characters, and grammars. In order to help students develop their communicative competence in the four basic skills, the 5Cs (Communication, Cultures, Comparisons, Connections, and Communities) will be integrated consistently into the content and exercises in the course. Restricted to Las Cruces campus only. **Prerequisite(s):** C or better in CHIN 1120.

# CHIN 2120. Mandarin Chinese IV

## 3 Credits (3)

This is the second semester of a two-semester sequence in second year modern standard Chinese ("Mandarin"). This course is designed for students who have taken 1 st, 2nd, and 3rd Semester Mandarin Chinese (or equivalence), and have a good foundation on Chinese phonetics, characters, and grammars. In order to help students develop their communicative competence in the four basic skills, the 5Cs (Communication, Cultures, Comparisons, Connections, and Communities) will be integrated consistently into the content and exercises in the course. Restricted to Las Cruces campus only. **Prerequisite(s):** C or better in CHIN 2110.

# CHME-CHEMICAL & MATERIALS ENGR (CHME)

# CHME 101. Introduction to Chemical Engineering Calculations 2 Credits (2)

Introduction to the discipline of chemical engineering, including: an overview of the curriculum; career opportunities; units and conversions; process variables; basic data treatments; and computing techniques including computer programming and use of spreadsheets. **Prerequisite(s)/Corequisite(s):** MATH 1250G.

# CHME 102. Material Balances

# 2 Credits (2)

Perform material balances in single- and multi-phase, reacting and nonreacting systems under isothermal conditions.

Prerequisite(s)/Corequisite(s): CHEM 1215G or CHEM 1265. Prerequisite(s): MATH 1250G, CHME 101.

# CHME 201. Energy Balances & Basic Thermodynamics 3 Credits (3)

Chemical Engineering energy balances; combined energy and material balances including those with chemical reaction, purge and recycle; thermochemistry; application to unit operations. Introduction to the first and second laws of thermodynamics and their applications. May be repeated up to 3 credits.

Prerequisite(s): CHME 102, CHEM 1216 or CHEM 1215G, and MATH 1521G or MATH 1521H.

# CHME 294. Communicating in Chemical Engineering 2 Credits (2)

Students will master the fundamentals of communicating as an engineer, with focus on both written and oral communication, both independently and collaboratively, including development of the skills of gathering information and making decisions.

Corequisite(s): ENGL 1110G, COMM 1115G.

# CHSS - COMM HEALTH/SOC SRVCS (CHSS)

# CHSS 1110. Intro to Health & Community Services 3 Credits (3)

This course offers a holistic and multidisciplinary approach towards health promotion, wellness and a healthy lifestyle. Emphasis is placed on the major problems/issues that have the greatest significance to personal and community health. Topics to be discussed include:nutrition, fitness, stress management, sexuality, drug education and others.

# CHSS 2110. Ethical & Research Issues in Human & Comm Service 3 Credits (3)

Ethical and legal responsibilities of health personnel with an emphasis on research applications. May not receive credit for both CHSS 2110 and CHSS 316. Community Colleges only.

# CHSS 2510. Service Learning

# 1-4 Credits (1-4)

Service Learning Experience in Human and Community Service: Exploration of contemporary social, civil, economic and ethical problems that require student participation in collaborative efforts within the community

**Prerequisite(s)/Corequisite(s):** PHLS 1110G, CHSS 1110, and PHLS 2120. Prerequisite(s): PHLS 2110. Restricted to Community Colleges campuses only.

# CHSS 2511. Leadership/Mentorship Training for the CHSS Ambassadors Program

# 1 Credit (1)

Leadership development for volunteers serving as CHSS ambassadors. Focus on public relations and CHSS undergraduate degree programs. Graded S/U.

Prerequisite: consent of instructor.

# **CJUS-CRIMINAL JUSTICE**

# CJUS 1110G. Introduction to Criminal Justice

# 3 Credits (3)

This course provides an overall exploration of the historical development and structure of the United States criminal justice system, with emphasis on how the varied components of the justice system intertwine to protect and preserve individual rights. The course covers critical analysis of criminal justice processes and the ethical, legal, and political factors affecting the exercise of discretion by criminal justice professionals.

# CJUS 1120. Criminal Law 3 Credits (3)

This course covers basic principles of substantive criminal law including elements of crimes against persons, property, public order, public morality, defenses to crimes, and parties to crime. May be repeated up to 3 credits.

#### CJUS 1996. Special Topics in Criminal Justice 1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated under different topics for a maximum of 6 credits.

# CJUS 2120. Criminal Courts and Procedure 3 Credits (3)

This course covers the structures and functions of American trial and appellate courts, including the roles of attorneys, judges, and other court personnel, the formal and informal process of applying constitutional law, rules of evidence, case law and an understanding of the logic used by the courts.

# CJUS 2140. Criminal Investigations 3 Credits (3)

This course introduces criminal investigations with in the various local, state, and federal law enforcement agencies. Emphasis is given to the theory, techniques, aids, technology, collection, and preservation procedures which insure the evidentiary integrity. Courtroom evidentiary procedures and techniques will be introduced. Community Colleges only. (Note: students completing CJUS 2140 may not take CJUS 321.)

# CJUS 2150. Corrections System

# 3 Credits (3)

This course introduces the corrections system in the United States, including the processing of an offender in the system and the responsibilities and duties of correctional professionals. The course covers the historical development, theory, and practice, as well as the institutional and community-based alternatives available in the corrections process.

# CJUS 2160. Field Experience in Criminal Justice 3-6 Credits

This course is designed to provide actual experience working for a criminal justice agency and the opportunity to apply criminal justice concepts and theory to a field situation. Students already working in an agency will complete an approved learning project while on the job. **Prerequisites:** CJUS 1110G, prior arrangement and consent of instructor and a GPA of 2.0 or better in major.

# CJUS 2220. The American Law Enforcement System 3 Credits (3)

This course covers the historical and philosophical foundations of law and order, with an in-depth examination of the various local, state, ad federal law enforcement agencies and how they interact within the criminal justice system.

# **COMM-COMMUNICATION (COMM)**

# COMM 1115G. Introduction to Communication 3 Credits (3)

This survey course introduces the principles of communication in the areas of interpersonal, intercultural, small group, organizational, public speaking, and mass and social media.

# COMM 1130G. Public Speaking 3 Credits (3)

This course introduces the theory and fundamental principles of public speaking, emphasizing audience analysis, reasoning, the use of evidence, and effective delivery. Students will study principles of communication theory and rhetoric and apply them in the analysis, preparation and presentation of speeches, including informative, persuasive, and impromptu speeches.

# COMM 2110. Communication Theory

# 3 Credits (3)

This course provides an exploration of major theories, concepts and methods of research in the study of human communication.

# COMM 2111. Introduction to the Communication Major 1 Credit (1)

This is a one-credit course for new Communication Studies majors. It helps them get acquainted with the department, the department head (professor for this course, the professors, other students, and the department student organizations. It also deals with degree mapping and career mapping and any problems the students are having in their first year. Finally, the students learn about the the Communication Studies discipline and various communication careers they can pursue with their degree. The class meets one day each week for one hour. Restricted to: Communication Studies majors. Restricted to Las Cruces campus only.

# COMM 2996. Special Topics

### 1-3 Credits

Specific subjects and credits to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

# COMM 2997. Independent Study

## 1-3 Credits

Individualized, self-paced projects for students with a special interest in communication topics. May be repeated for a maximum of 6 credits. **Prerequisites:** COMM 1115G and sophomore standing.

# **CSEC - CYBERSECURITY (CSEC)**

# CSEC 110. Principles of Cybersecurity

# 3 Credits (3)

Course covers contemporary trends in cybersecurity including understanding characteristics of security vulnerabilities as they relate to hardware, software, data, procedures, and user actions. Restricted to Community Colleges campuses

# CSEC 275. Introductory to Cryptography

### 3 Credits (3)

Introduction to the foundation of cryptography, principles behind cryptographic design, and cryptographic applications. Topics include encryption techniques, common cryptographic protocols and security functions.

**Prerequisite(s)/Corequisite(s):** MATH 1215 or above. Restricted to Las Cruces campus only.

# CSEC 280. Introduction to Cyber Defense

# 3 Credits (3)

Introduction to the foundation of cryptography, principles behind cryptographic design, and cryptographic applications. Topics include encryption techniques, common cryptographic protocols and security functions.

Prerequisite(s)/Corequisite(s): MATH 1215. Restricted to Las Cruces campus only.

# CSEC 285. Introduction to Managing Information Security 3 Credits (3)

Managerial aspects of information security and assurance including access control models, information security governance, accountability metrics, legal responsibilities, and information security program assessment.

**Prerequisite(s)/Corequisite(s):** CTEC 290 or OECS 269. Restricted to Las Cruces campus only.

# **CTEC - CYBER TECHNOLOGY**

# CTEC 105. Introduction to Information Technology 3 Credits (3)

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communication, data analysis, information management, and 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)

This course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. Course includes the principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations to build simple LANs, perform basic configurations for routers and switches. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

# CTEC 185. Routing and Switching Essentials 3-4 Credits (3-4)

This course covers the architecture, components, and operations of routers and switches in a small network. Students learn how to configure routers and switches for basic functionality. Course demonstrates how to configure and troubleshoot routers and switches to resolve common issues with RIPv1, RIPng, single area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. May be repeated up to 8 credits.

**Prerequisite(s)/Corequisite(s):** CTEC 180 or OECS 261. Restricted to Las Cruces campus only.

# CTEC 220. Internship 1-3 Credits (1-3)

Work experience, directly related to a student's field of study, that provides an opportunity to explore career options while experiencing hands-on application, knowledge, and theory learned in the classroom. May be repeated up to 6 credits. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Las Cruces campus only. **Prerequisite(s):** (CTEC 120 or OECS 185) AND (CTEC 130 or OECS 204), AND (CTEC 180 or OECS 261).

# CTEC 230. Introduction to Linux Server Administration 1-3 Credits (1-3)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Linux Server(s). It provides in-depth, hands-on training for IT professionals responsible for the planning, implementation, management, and support of Linux Server operating system(s). May be repeated up to 6 credits.

**Prerequisite(s)/Corequisite(s):** CTEC 130 or OECS 204. Restricted to Community Colleges campuses only.

# CTEC 235. Introduction to Windows Server Administration 3 Credits (3)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Window Server(s). It provides in-depth, hands-on training for IT professionals responsible for the planning, implementation, management, and support of Windows Server operating system(s).

**Prerequisite(s)/Corequisite(s):** CTEC 135 or OECS 207. Restricted to Las Cruces campus only.

# CTEC 240. Fundamentals of Database Management 3 Credits (3)

Exploration of database management using SQL and PL/SQL to extend and automate SQL in administering database systems. Students will create and work with projects which challenge them to enhance the SQL of a database solution for a business or organization. May be repeated up to 6 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** CTEC 145.

# CTEC 245. Fundamentals of Cloud Based Data Systems 1-3 Credits (1-3)

Introduction to the techniques and tools required to develop database driven web applications. The course teaches students how to design, develop, and deploy efficient and responsive, database-driven web applications using Oracle Application Express. May be repeated up to 6 credits.

**Prerequisite(s)/Corequisite(s):** CTEC 240. Restricted to Community Colleges campuses only.

# **CTEC 255. Special Topics**

# 1-3 Credits (1-3)

Topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

# **CTEC 280. Scaling Networks**

# 3-4 Credits (3-4)

This course covers the architecture, components, and operations of routers and switches in WLANs and complex networks. Students learn how to configure routers and switches for advanced functionality and to resolve common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): CTEC 185 or OECS 262. Restricted to Las Cruces campus only.

# **CTEC 285. Connecting Networks**

# 3-4 Credits (3-4)

This course covers WAN technologies and network services required by converged applications in a complex network. Students learn about selection criteria of network devices, VLANs and WAN technologies to meet network requirements to resolve common issues with data link protocols. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): CTEC 280 or OECS 263. Restricted to Las Cruces campus only.

# CTEC 290. Network Security

## 3-4 Credits (3-4)

Fundamentals of design and implementation of network security solutions that will reduce the risk of system vulnerability. Topics include: threats, attacks, vulnerabilities, tools, architecture, design, access management, risk management, and cryptography. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): (CTEC 120 or OECS 185), AND (CTEC 180 or OECS 261). Restricted to Las Cruces campus only.

# CTEC 299. Independent Study

# 1-4 Credits (1-4)

Specific subject to be determined based upon student need. May be repeated up to 8 credits. Restricted to Community Colleges campuses only.

# CTFM-CLTHNG/TXTLS/FSHN MRCHDSG (CTFM)

# CTFM 1110. Fundamentals of Fashion 3 Credits (3)

Survey of the fashion business from fiber to end product.

# CTFM 2120. Fashion Illustration

# 3 Credits (1+4P)

This course explores aspects of fashion illustration, from drawing basic fashion figures to producing finished professional illustrations in color. This course provides the opportunity for students to integrate their fashion design development with computer-aided systems. The emphasis is on fashion innovation and concept design exploration enhanced by computer applications. May be repeated up to 3 credits.. Prerequisites: ARTS 1145G and CTFM 1110

# CTFM 2130. Concepts in Apparel Construction 3 Credits (1+4P)

Students are introduced to professional standard sewing techniques and apparel construction. The techniques learned are applied to produce finished garments. Restricted to: FCSE,CTFM majors. Restricted to Las Cruces campus only.

# CTFM 2990. Fashion Practicum

# 1-3 Credits (1-3)

Applied field experience in the related areas of apparel design, fashion merchandising, and textile science. May be repeated up to 3 credits. Restricted to: CTFM majors. Restricted to Las Cruces campus only.

# **DANC-DANCE (DANC)**

# DANC 1110G. Dance Appreciation

# 3 Credits (3)

This course introduces the student to the diverse elements that make up the world of dance, including a broad historic overview, roles of the dancer, choreographer and audience, and the evolution of the major genres. Students will learn the fundamentals of dance technique, dance history, and a variety of dance aesthetics. Restricted to: Main campus only.

# DANC 1130. Ballet I

# 1 Credit (1)

This course is the beginning level of ballet technique. Students learn the basic fundamentally and performance skills of ballet techniques, which may include flexibility, strength, body alignment, coordination, range of motion, vocabulary, and musicality. May be repeated for a maximum of 2 credits.

# DANC 1131. Introduction to Ballroom Dance

## 1 Credit (1)

Introduction to ballroom dance for non dance majors. Students will learn basic ballroom technique and partnering work. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

# DANC 1135. Introduction to Argentine Tango

# 1 Credit (1)

Introduction to skills and techniques of Argentine Tango.

# DANC 1140. Flamenco I

# 1 Credit (1)

This course introduces the student to the art of flamenco and its cultural features and significance. Students will learn the fundamentals of this art form and introductory techniques and skills, which may include handwork, footwork, postures, and specific dances. May be repeated for a maximum of 2 credits.

# DANC 1150. Modern Dance I

## 1 Credit (1)

Modern Dance techniques and styles. Students are introduced to proper warm-up techniques, body alignment, control and flexibility. Students work with various rhythms and combinations of movements. The course emphasizes dance technique and creative experience. The history, terminology and philosophy of Modern Dance are also discussed. May be repeated for a maximum of 2 credits.

## DANC 1155. Introduction to Hip-Hop Dance 1 Credit (1)

This course provides an atmosphere of safety and encouragement in which students can express creativity and individuality through hip-hop dance. No previous dance experience required. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

# DANC 1185. Beginning Country Western Dance 1 Credit (1)

Beginning County Western dance, including Country Western two-step, nightclub two-step, polka, and Country Western line dance. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

# DANC 1220. Introduction Latin Social Dance 1 Credit (1)

Introduction to Latin social dance for non dance majors. Students will learn basic Latin dance technique and partnering work. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

# DANC 1235. Intro to West Coast Sw

## 1 Credit (1)

Students will learn to dance the smooth style of Swing. The West Coast Swing may be danced to ANY style of music that has a beat (Country, R&B, Hip Hop, Disco, House). Also featured is the Hustle (fast paced and exhilarating). May be repeated up to 4 credits. Restricted to Las Cruces campus only.

# DANC 1460. Dance for Musical Theater I

## 1 Credit (1)

This course provides students with an understanding of the Tap and Jazz Dance technique for use in Musical Theater and other performance genres at the beginning level. This course is designed for students to gain knowledge and understanding of Tap and Jazz Dance as art forms. May be repeated up to 2 credits.

# DANC 2114. Dance Sport I

### 1 Credit (1)

Performance-based, team formation dance in a variety of Latin and ballroom dances. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

# DANC 2130. Ballet II

### 2 Credits (2)

Intermediate level of ballet technique; Introduction of more advanced Ballet vocabulary at barre/center work; increase flexibility, strength, body alignment, and coordination for practice of steps/combinations with variations in timing and changes of facing. Restricted to Las Cruces campus only. May be repeated up to 4 credits.

# DANC 2130L. Ballet Technique II Lab 1 Credit (1)

This course is designed for the acquisition of intermediate level ballet technique and skill development. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

## DANC 2140. Flamenco II 2 Credits (2)

The structure of flamenco through choreographies that represent the basic flamenco dance forms: Fandangos de Huelva, Alegrias, Solea par Bulerias, and Tientos/Tangos. The course will also cover intermediate flamenco technique including footwork, palm as (hand claps), braceo (movement of the arms), and floreo (movement of the hands) May be repeated up to 8 credits. Restricted to Las Cruces campus only. Prerequisite(s): DANC 1140.

# DANC 2140L. Flamenco Dance II Lab

# 1 Credit (1)

This course is designed for the acquisition of intermediate level Flamenco dance technique and skill development. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 1140 or instructor permission.

#### DANC 2142. Classical Spanish II 2 Credits (1+3P)

# The study of theory, techniques, and practice of Classical Spanish at the intermediate level. Includes historical and cultural contexts of this art form. May be repeated up to 8 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 1140.

## DANC 2142L. Spanish Dance II Lab 1 Credit (1P)

This course is designed for the acquisition of intermediate level Spanish dance technique and skill development. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

# DANC 2150. Modern Dance II

## 2 Credits (2)

Modern II is designed to further the student's abilities in modern dance technique, to enhance efficient use of weight and momentum, to release held patterns in the body's mechanics, to enrich spatial awareness, and to begin work on performance techniques. May be repeated up to 4 credits.

## DANC 2150L. Modern Dance Technique II Lab 1 Credit (1P)

This course is designed for the acquisition of intermediate level modern dance technique and skill development. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

# DANC 2155. Hip Hop Dance Ensemble I

## 1 Credit (1)

Performance-based instruction for students pursuing a career in hip hop dance. Instruction includes dance repertory and choreography for stage, commercial/industry, and competitive dance areas. May be repeated up to 4 credits. Consent of Instructor required.

# DANC 2157. Intermediate Hip-Hop Dance

### 2 Credits (2)

This course is for students who have experience in Hip-Hop dance. The movement material will cover West coast and Southern styles with the inclusion of the history and evolution of Hip-Hop dance. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

# DANC 2161. Tap Dance II

# 1 Credit (1)

Continued study of skills and techniques of tap dance at the advanced level. May be repeated for a maximum of 2 credits. Prerequisite: DANC 1161 or consent of instructor.

### DANC 2250. Contemporary Dance Ensemble I 1 Credit (1)

Performance-based instruction for students pursuing a career in contemporary dance. Instruction includes contemporary dance repertory and choreography for stage, outdoor arenas, and site-specific areas. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

# DANC 2251. Spanish Dance Ensembles I

# 1 Credit (1)

Performance-based instruction for students pursuing a career in dance with an emphasis in Spanish Dance. Instruction includes dance repertory and choreography for stage, outdoor arenas, and site-specific areas. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

#### DANC 2265. Principles of Choreography I 3 Credits (3)

Solo dance choreography technique. The course must be passed with a grade of C or higher. Offered the Fall of even years only. Consent of Instructor required.

# DANC 2270. Improvisation I

## 2 Credits (2)

Development of movement improvisational skills with complex examination of improvisational structures. Restricted to Las Cruces campus only.

# DANC 2310. Bronze American Rhythm

# 2 Credits (2)

Bronze level American Rhythm patterns, techniques, and partnering with emphasis on elements of dance. May be repeated up to 6 credits.

# DANC 2311. Bronze American Smooth

# 2 Credits (2)

Bronze level American Smooth patterns, technique, and partnering with an emphasis on the elements of dance. May be repeated up to 4 credits.

# DANC 2320. Bronze International Latin

# 2 Credits (2)

This is the style of Latin dance that is danced around the globe and is featured in the World DanceSport Championships. Students will learn the Bronze Level figures and techniques in four (4) International Style dances: Rumba, Cha Cha, Samba & Jive. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

# DANC 2321. Bronze International Standard 2 Credits (2)

This is the style of Ballroom dance that is performed around the globe and is featured in the World DanceSport Championships. Learn the Bronze Level figures and techniques in five (5) International Style dances: Waltz, Tango, Viennese Waltz, Foxtrot & Quickstep. Students will focus on understanding technical elements of dance, memorizing and performing routines. May be repeated up to 4 credits.

# DANC 2460. Dance for Musical Theater II 2 Credits (2)

This course provides students with an understanding of the Tap and Jazz Dance technique for use in Musical Theater and other performance genres at the intermediate level. This course is designed for students to gain knowledge and understanding of Tap and Jazz Dance as art forms. May be repeated up to 4 credits. Consent of Instructor required. **Prerequisite(s):** DANC 1460 or consent of instructor.

# **DAS-DENTAL ASSISTING (DAS)**

# DAS 101. Introduction to Dental Assisting

## 2 Credits (2)

An introduction to the duties and responsibilities of a dental assistant. Includes brief lessons on head and neck anatomy, chair side assisting, sterilization techniques, dental office emergencies, and dental office management. Restricted to: Community Colleges only.

# DAS 111. Bio-Dental Science

## 4 Credits (3+3P)

An introduction to biomedical and dental sciences with emphasis on head and neck anatomy and tooth morphology. Includes microbiology, general anatomy and physiology, histology and embryology of the oral cavity, pathology and pharmacology as they relate to dentistry. **Corequisite(s):** DAS 113, DAS 115, and DAS 117.

**Prerequisite(s)/Corequisite(s):** PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

# DAS 113. Dental Assisting I

# 4 Credits (2+6P)

Introduction to chair side assisting procedures, instrumentation, infection control, equipment safety and maintenance, dental office emergencies, and management of pain and anxieties.

Corequisite(s): DAS 111, DAS 115, and DAS 117.

**Prerequisite(s)/Corequisite(s):** PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

# DAS 115. Dental Radiology

# 3 Credits (2+3P)

Radiation physics, hygiene, and safety theories. Emphasis on the fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, and other ancillary radiographic techniques.

Corequisite(s): DAS 111, DAS 113, and DAS 117.

**Prerequisite(s)/Corequisite(s):** PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

# DAS 117. Dental Materials

# 3 Credits (2+3P)

Composition, chemical and physical properties, manipulation and uses of dental materials. Laboratory experiences include the application and manipulation of various materials used in dentistry.

Corequisite(s): DAS 111, DAS 113, and DAS 115.

**Prerequisite(s)/Corequisite(s):** PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

# DAS 123. Dental Assisting Practicum 6 Credits (1+15P)

This course is the clinical component of the program that combines general practice and experiences in the work place. Seminar topics focus on the practicum experiences and critique of performance. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

**Prerequisite(s):** DAS 111, DAS 113, DAS 115, and DAS 117. **Corequisite(s):** DAS 125, DAS 127, and DAS 129.

# DAS 125. Professional Concepts

## 3 Credits (3)

Emphasis on the development of professionalism for the dental office. Includes oral communication, psychology, patient relations, problemsolving skills, stress management, and employability in addition to dental jurisprudence and ethics. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117. Corequisite(s): DAS 123, DAS 127, and DAS 129.

#### DAS 127. Dental Office Management 2 Credits (2)

This capstone course is an introduction to business office procedures, including telephone management, appointment control, accounts payable, completion of third party reimbursement forms, inventory control data entry for charges and payments, management recall, basic dental computer software and operating basic business equipment. Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117. Corequisite(s): DAS 123, DAS 125, and DAS 129.

#### DAS 129. Preventive Dentistry 2 Credits (2)

Prevention of dental diseases, oral hygiene instruction, fluoride, community dental health, and nutrition. Development, implementation and evaluation of a community dental health project. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117. Corequisite(s): DAS 123, DAS 125, and DAS 127.

# DAS 130. Dental Assisting II

## 4 Credits (2+6P)

Continuation of chair side assisting skills and techniques with a major emphasis on four-handed dentistry. This capstone course includes specialties within dentistry and expanded chair side functions. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, DAS 117, DAS 123, DAS 125, DAS 127, and DAS 129.

# DAS 131. Dental Office Management I

# 3 Credits (3)

Introduction to the field of dental office management with emphasis placed on professional verbal and written communication skills utilized within the dental office. Content includes dental terminology, charting, and back office experience as they relate to dental reception and management.

Prerequisite(s)/Corequisite(s): DAS 101, AHS 120, and AHS 202. Prerequisite(s): ENGL 1110G. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

# DAS 133. Dental Office Management II

# 3 Credits (3)

Places emphasis on computer programs specifically designed for dental office management (Dentrix, Sof Dent, etc.) Expanded course content on oral communication and telephone skills, appointment scheduling, patient relations, stress management solutions, and comprehensive critical thinking/problem solving skills.

Prerequisite(s)/Corequisite(s): AHS 202. Prerequisite(s): ENGL 1110G, DAS 101, and AHS 120. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

## DAS 155. Special Topics 1-6 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits. Prerequisite: consent of instructor.

# **DHYG - DENTAL HYGIENE/HYGIENIST** (DHYG)

## DHYG 110. Preclinical Dental Hygiene 3 Credits (3)

Basic scientific principles and current theory, prevention of disease transmission, ethical and professional treatment of patients, clinical learning preparation, and introduction to comprehensive patient care. Offered concurrently with DHYG 112 to provide dental hygiene students with introductory knowledge, skills and attitudes to function in the clinical setting. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 112. Preclinical Dental Hygiene Lab 3 Credits (12P)

Clinical application to basic theories and procedures used in dental hygiene practice. Techniques of instrumentation used in performing diagnostic, preventive and therapeutic services utilized when providing comprehensive patient care. Student will practice these techniques on manikins and student partners in the clinic. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 114. Oral Histology and Embryology 2 Credits (2)

Introduction and description of general histology and embryology with emphasis on the microscopic structures of enamel, dentin, pulp, cementum, periodontal ligament, bone, oral mucosa, epithelial attachment and development of orofacial structures. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 116. Head and Neck Anatomy

# 3 Credits (3)

Comprehensive study of the anatomy of the head and neck regions, including skeletal, nervous, circulatory, lymphatic, and muscular systems. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 117. Dental Anatomy

# 2 Credits (2+1P)

A detailed study of nomenclature, morphologic characteristics, and physiologic relationships of human primary and permanent teeth as related to the clinical practice of dental hygiene. Laboratory activities develop observation and dexterity skills. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 118. Dental Radiology 3 Credits (3+4P)

Study of radiation physics, hygiene and safety theories. Fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, ancillary radiographic techniques and application to dental hygiene treatment. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 120. Dental Hygiene Theory I 3 Credits (3)

Continuation of the theoretical basis for dental hygiene clinical practice. Emphasis on emergency care, planning dental hygiene care, health promotion and disease prevention, oral rehabilitation and care of appliances, modifications of dental hygiene care through the life-span, and an introduction to medically comprised patients. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 122. Clinical Dental Hygiene I 3 Credits (16P)

Application of dental hygiene procedures on a variety of clinical patients under direct supervision of faculty. Emphasis on patient assessment and diagnosis, treatment procedures, appointment planning and prevention techniques. Theory is simultaneously related to practical experience. Offered concurrently with DHYG 120. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 124. General and Oral Pathology 3 Credits (3)

Introduction to general pathology with focused study of diseases and disorders of the oral cavity and their interrelationship with body systems; developmental anomalies of the teeth and jaws; manifestations of disease in the oral cavity, head and neck. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 126. Periodontology

## 3 Credits (3)

Study of normal and diseased periodontium to include the structural, functional and environmental factors. Emphasis on etiology, pathology, evaluation of disease, treatment modalities, and therapeutic and preventative periodontics relative to the hygienist's role as a co-therapist in a contemporary practice setting. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 132. Clinical Dental Hygiene II 2 Credits (2)

Continuation of clinical skills, patient assessment and diagnosis, treatment and appointment planning, preventive techniques and application of dental hygiene procedures at an intermediate level under the direct supervision of faculty. Clinical-based instruction helps students synthesize new knowledge, apply previous knowledge, and gain experience managing the workflow. Theory is simultaneously related to practical experience. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** 'C' or above in DHYG 120, DHYG 122, DHYG 124, 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 (2)

Advanced theory of dental hygiene and information on periodontal therapies relative to the hygienist's role as a co-therapist in clinical practice. Continuation of the study of dental hygiene care for medically comprised patients and an introduction to special needs patients. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 212. Clinical Dental Hygiene III 4 Credits (16P)

Continuation of clinical skills, patient assessment and diagnosis, treatment and appointment planning, preventive techniques and applications of dental hygiene procedures at the intermediate to competent level under supervision of faculty. Emphasis on dental hygiene treatment for the medically compromised and periodontally involved patients. Theory is simultaneously related to practical experience. Offered concurrently with DHYG 210. May be repeated up to 4 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 214. Dental Pharmacology 3 Credits (3)

Study of the pharmacologic aspects of drugs and drug groups with which the dentist and dental hygienist are directly and indirectly concerned. Emphasis is placed on nomenclature, origin, physical and chemical properties, preparation, modes of administration and effects of drugs upon the body systems. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 215. Medical and Dental Emergencies 2 Credits (2)

This course provides an overview of medical and dental emergencies encountered most frequently in the dental setting. It also provides the student with knowledge and techniques on how to address those emergencies should they occur. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 217. Research Methodology

# 2 Credits (2)

This course provides an introduction to the principles and application of research methods in social, behavioral and medical research. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 218. Pain and Anxiety Management 2 Credits (2)

Study of the application of various physical, chemical, and psychological modalities to the prevention and treatment of preoperative and postoperative patient anxiety and pain. Emphasis on administration of local anesthesia and nitrous oxide. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 219. Pain and Anxiety Management Clinical 1 Credit (4P)

Clinical application of concepts learned in DHYG 218. Emphasis on the administration and techniques of local anesthesia and monitoring nitrous oxide. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

Prerequisite(s): DHYG 218.

# DHYG 220. Dental Hygiene Theory IV

# 3 Credits (3)

Theoretical preparation for advanced clinical practice. In-depth study of dental hygiene care for patients with special needs. Case Study presentations and a Board Review are utilized to demonstrate the synthesis of comprehensive dental hygiene knowledge, skills and attitudes. The most current dental and dental hygiene technology will be reviewed as it related to clinical practice. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

## DHYG 222. Clinical Dental Hygiene IV 4 Credits (16P)

Clinical sessions combine basic and advanced dental hygiene skills with time management techniques essential for private practice. Comprehensive patient care to include assessment, dental hygiene diagnosis, treatment planning, implementation and evaluation of dental care, nonsurgical periodontal therapy, adjunct clinical procedures, ultrasonic instrumentation, patient management, sealants, and comprehensive programs for control of oral diseases will be emphasized. Theory is simultaneously related to practical experience. Students are encouraged to develop independent decision-making with minimal faculty supervision. May be repeated up to 4 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 224. Principles of Practice 2 Credits (2)

Examination of the dental hygienist's role in both traditional and non-traditional employment settings. Career planning, resume preparation and interviewing are practices. An understanding of the law, professional ethics of dental hygiene and the need for lifelong learning are emphasized. Future roles of the dental hygienist and emerging issues in dental hygiene will be explored. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 225. Dental Public Health Education 3 Credits (3)

Study of principles and concepts of community public health and dental health education. Emphasis on dental epidemiology and statistical methods, community assessment, educational planning, implementation, and evaluation, scientific review of literature, and classroom presentation. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

# DHYG 255. Special Topics in Dental Hygiene 1-6 Credits (1-6)

Study of special topics related to the advanced practice of dental hygiene. May include educational methodology as well as applications in clinical practice, research, or community service. Consent of instructor required. Restricted to: Community Colleges only. Restricted to DHYG majors.

# DMS-DIAGNOSTIC MED SONOGRAPHY (DMS)

# DMS 100. Introduction to Clinical Practicum 1 Credit (1)

Introduction to working in the medical environment. Includes preparation for clinical internship and observation hours in the ultrasound department. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 101. Introduction Sonography/Patient Care 2 Credits (2)

Introduction to the careers in sonography, terminology, medical ethics, scanning planes, applications of ultrasound, professional standards and patient care. May be repeated up to 2 credits. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 116. Vascular Technology I

# 2 Credits (2)

Review of basic ultrasound physics and principles, peripheral vascular anatomy, hemodynamics, Doppler evaluation, peripheral vascular scanning techniques, physiologic testing and the carotid arteries and the peripheral vascular system. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 116 L. Vascular Technology I Lab 1 Credit (2P)

Includes protocol development, scanning techniques, recognition of anatomical relationships and the normal ultrasound appearance of the carotid arteries and peripheral vasculature utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 130. Pelvic Sonography

# 1 Credit (1)

Includes the anatomy, sectional anatomy and normal physiology of the pelvic structures; including the uterus, ovaries, prostate, pelvic muscles, lower GI, appendix and vessels as well as scanning techniques, sonographic appearance and Doppler evaluation of the pelvis. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 130 L. Pelvic Sonography Lab 1 Credit (2P)

Includes protocol development, scanning techniques, recognition of anatomical relationships and the normal ultrasound appearance of the pelvic structures including the uterus, ovaries, prostate, lower gastrointestinal system, appendix and pelvic muscles utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 140. Abdominal Sonography

# 3 Credits (3)

Includes the anatomy, sectional anatomy and normal physiology of prevertebral vessels, liver, biliary system, pancreas, upper gastrointestinal system, kidneys, adrenals, and spleen as well as scanning techniques, sonographic appearance and Doppler evaluation of the deep abdominal organs. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

### DMS 140 L. Abdominal Sonography Lab 1 Credit (4P)

Includes protocol development, scanning techniques, recognition of anatomical relationships and the normal ultrasound appearance of prevertebral vessels, liver, biliary system, pancreas, upper gastrointestinal system, kidneys and spleen utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 150. Sonographic Principles and Instrumentation I 1 Credit (1)

Includes the fundamental properties and mathematical relationships between variables of wave parameters, acoustic variables, attenuation, pulsed wave operation, transducers, system operation, Doppler, and artifacts utilizing real-time sonographic equipment. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 160. 1st Trimester Obstetric Sonography 1 Credit (1)

Includes the embryology, anatomy, sectional anatomy, normal physiology, biometrics, assessment, and sonographic appearance of the 1st trimester fetus, placenta, uterus and adnexa as well as scanning techniques according to recognized protocols. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 165. 2nd/3rd Trimester Obstetric Sonography 1 Credit (1)

Includes the anatomy, sectional anatomy, normal physiology, biometrics, assessment, and sonographic appearance of the 2nd and 3rd trimester fetus, placenta, uterus, and adnexa as well as scanning techniques according to recognized protocols. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 170. Clinical Practicum I

## 2 Credits (8-10P)

Development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at the developmental level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under direct supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 180. Clinical Practicum II 5 Credits (30P)

Development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at the beginner level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continue observation, assistance and performance of patient care and sonographic duties under direct supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 201. Applied Sonographic Procedures 1 Credit (8P)

Advances scanning skills, system optimization, anatomic recognition of abdominal and pelvic structures utilizing real-time sonographic equipment including Doppler. Includes sonographic evaluation of the first trimester pregnancy and normal fetus. Restricted to: DMS majors. Restricted to Las Cruces campus only.

# DMS 216. Vascular Technology II 2 Credits (2)

Includes the pathology and pathophysiology of the vascular system, scanning techniques, clinical presentation, ultrasound appearance and Doppler evaluation seen with pathological conditions of the carotid arteries, deep and peripheral vascular systems. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 216 L. Vascular Technology II Lab 1 Credit (2P)

Includes progressive development of skills following recognized protocols, scanning techniques, recognition of anatomical relationships with differentiation of normal and abnormal ultrasound appearance of the carotid arteries, deep and peripheral vascular systems utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

## DMS 226. Sonographic Case Studies I 1 Credit (1)

Includes integration of didactic knowledge, clinical presentation, laboratory values, sonographic appearance and related medical imaging of a variety of pathological conditions through a variety of case analysis and presentations. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 227. Sonographic Case Studies II 1 Credit (1)

Continuation of DMS 226, integration of didactic knowledge, clinical presentation, laboratory values, sonographic appearance and related medical imaging of a variety of pathological conditions through a variety of case analysis and presentations. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 230. Gynecologic Pathology 2 Credits (2)

Includes the pathology and pathophysiology of the female reproductive system, scanning techniques, clinical presentation, ultrasound appearance and Doppler evaluation seen with pathological conditions of the uterus, ovaries, and adnexa. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 240. Abdominal Pathology I

# 2 Credits (2)

Includes the pathology and pathophysiology of abdominal structures of the prevertebral vessels, liver, biliary system, pancreas, spleen and gastrointestinal system; scanning techniques, ultrasound appearance, clinical presentation and Doppler evaluation seen with pathological conditions. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 245. Abdominal Pathology II

## 2 Credits (2)

Includes the pathology and pathophysiology of abdominal structures of the genitourinary system, spleen, retroperitoneum, adrenal glands, abdominal wall and prostate; scanning techniques, ultrasound appearance, clinical presentation and Doppler evaluation seen with pathological conditions. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

### DMS 248. Pediatric Sonography

### 2 Credits (2)

Includes the anatomy of the brain, skull, spine, hips, and normal developmental changes as well as pathology and pathophysiology of specific conditions that affect the premature infant, newborn and pediatric population across a variety of body systems. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 250. Sonographic Principles and Instrumentation II 3 Credits (3)

Includes properties of sound and its use in diagnostic imaging, artifacts, system operation, Doppler, basic hemodynamics, image optimization, bio effects, quality assurance, and new technologies in ultrasound imaging. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 255. Vascular Physics

## 2 Credits (2)

Includes a review of sound properties and its use in diagnostic imaging, artifacts, system operation, Doppler, image optimization, bio effects, quality assurance, and in-depth application of fluid properties and hemodynamics in vascular ultrasound imaging. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 260. High Risk Obstetric Sonography

# 3 Credits (3)

Includes congenital malformations of the developing fetus, high risk pregnancies, multiple gestation, maternal conditions and invasive procedures. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 270. Clinical Practicum III 5 Credits (20P)

Continued development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at an intermediate level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under limited supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 280. Clinical Practicum IV

### 5 Credits (20P)

Application of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at a proficient level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under limited supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 290. Small Parts & Superficial Structures 2 Credits (2)

Includes anatomy, pathology and pathophysiology, protocol development, scanning techniques, recognition of anatomical structures and the normal and pathological ultrasound appearance of the breast, thyroid, neck, scrotum, non-cardiac chest and musculoskeletal ultrasound. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 291. Registry Preparation: OB/GYN 1 Credit (1)

Registry preparation mock examinations over materials covered in Obstetric and Gynecological ultrasound. Students must pass this course with a 74% or better OR pass national certification in OB/GYN Sonography. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 292. Registry Preparation: Abdomen 1 Credit (1)

Registry preparation mock examinations over materials covered in abdominal ultrasound including small parts and superficial structures. Students must pass this course with a 74% or better OR pass ARDMS national certification exam in Abdominal Sonography. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# DMS 293. Registry Preparation: Vascular 1 Credit (1)

Registry preparation mock examinations over materials covered in vascular ultrasound. Students must pass this course with a 74% or better OR pass national certification in Vascular Technology. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

# **DRFT-DRAFTING (DRFT)**

## DRFT 100. Introduction to Architecture, Engineering, & Construction 3 Credits (3)

Introduction to and exploration of careers in the fields of architecture, engineering, and construction. Specific fields to include: architecture, civil engineering, mechanical engineering, structural engineering, engineering technology, residential construction, commercial construction, geographical information systems (GIS), surveying, sustainable design, and green building. Crosslisted with: ARCH 1310. Restricted to Community Colleges campuses

# DRFT 101. Introduction to Drafting and Design Technologies 1 Credit (1)

Professional and student organizations associated with the Drafting and Design Technologies program, degree requirements, employment skills and work habits, and university and college policies and procedures will be explored. Students will be introduced to the current learning management system and career-readiness certification. Restricted to Community Colleges only.

# DRFT 105. Technical Drawing for Industry 3 Credits (2+2P)

Technical sketching, basic CAD, and interpretation of drawings with visualization, speed and accuracy highly emphasized. Areas of focus include various trades such as machine parts, welding, heating and cooling, and general building sketches/plan interpretation.

## DRFT 108. Drafting Concepts/Descriptive Geometry 2 Credits (1+2P)

Basic manual drafting skills, sketching, terminology and visualization. Graphical solutions utilizing applied concepts of space, planar, linear and point analyses. Metric and S.I. units introduced.

## **DRFT 109. Computer Drafting Fundamentals** 3 Credits (2+2P)

Introduction to principles and fundamentals of drafting using both manual drawing techniques and computer-aided drafting (CAD) applications. May be repeated up to 3 credits. Crosslisted with: 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 FT106

Prerequisites: OECS 207, OECS 125 or consent of instructor.

# DRFT 113. Drafting Concepts/Computer Drafting Fundamentals II 4 Credits (2+4P)

Drafting for mechanical/industrial applications; machine part detailing, assemblies in orthographic, isometric, auxiliary, oblique, and sectional views. Two-dimensional AutoCAD with introduction to 3-D AutoCAD. Same as ET 216. Restricted to: Community Colleges only. Prerequisite: DRFT 112.

# DRFT 114. Introduction to Solid Modeling 3 Credits (2+2P)

2D mechanical drafting and 3D mechanical solid modeling utilizing the latest version of AutoCAD software. Industry dimensioning and annotation standards will be emphasized. 2D multi-view working drawings, 3D solid models, and basic 3D model assemblies will be introduced. Restricted to Community Colleges campuses only. Prerequisite(s): DRFT 109.

# DRFT 115. General Construction Safety 3 Credits (3)

Overview of general construction safety related to building, highway and road construction, and surveying field work for entry-level individuals. Students will also have the opportunity to earn a 10-hour construction industry OSHA card. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

# DRFT 120. Survey Equipment Fundamentals 2 Credits (2)

Introduces the application and the setup to the following surveying equipment: Automatic Level, Total station, and Global Positioning Systems. Field safety knowledge is required. Restricted to Community Colleges only.

# DRFT 124. Introduction to Geometric Dimensioning and Tolerancing 3 Credits (2+2P)

Introduction to geometric dimensioning and tolerancing (GD&T) for the mechanical CAD drafting, solid modeling, mechanical engineering technology, mechanical engineering, and manufacturing industries. Related industry standard finishes and fasteners will also be introduced and explored.

**Prerequisite(s)/Corequisite(s):** DRFT 114. Restricted to Community Colleges campuses only.

# DRFT 130. General Building Codes

# 3 Credits (2+2P)

Interpretation of the Building Code, local zoning codes, A.D.A. Standards and the Model Energy Code to study construction and design requirements and perform basic plan checking. Restricted to: Community Colleges only.

# DRFT 135. Electronics Drafting I

# 3 Credits (2+2P)

Drafting as it relates to device symbols; wiring, cabling, harness diagrams and assembly drawings; integrated circuits and printed circuit boards; schematic, flow and logic diagrams; industrial controls and electric power fields. Drawings produced using various CAD software packages. **Prerequisites:** DRFT 108 and DRFT 109.

# DRFT 143. Civil Drafting Fundamentals

# 3 Credits (2+2P)

Introduction to drafting in the field of Civil Engineering. Drawings, projects, and terminologies related to topographic, contour drawings, plan and profiles, and street/highway layout. Crosslisted with: E T 143. Restricted to Community Colleges only.

Prerequisite(s): DRFT 109.

# DRFT 151. Construction Principles and Print Reading 3 Credits (2+2P)

Introduction to construction materials, methods, and basic cost estimating and print reading applicable in today's residential, commercial, and public works industry. Instruction by print reading and interpretation, field trips, and actual job-site visits and progress evaluation.

# DRFT 153. Survey Drafting Applications

# 3 Credits (2+2P)

Introduction to drafting in the field of survey engineering. Drawings, projects and terminologies related to Point Data, topography, land/ boundary surveys, legal descriptions and plat surveys. Using the current Autodesk software. Crosslisted with: SUR 143. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

# DRFT 160. Construction Take-Offs and Estimating 3 Credits (2+2P)

Computing and compiling materials and labor estimates from working drawings using various techniques common in general building construction and in accordance with standard specifications and estimating formats. Use of spreadsheets and estimating software introduced.

Prerequisite: DRFT 151.

# DRFT 163. Civil Infrastructure Detailing

# 3 Credits (2+2P)

Infrastructure detailing related to civil engineering projects including: ponding, roadway, sewer, and storm-water structures; concrete foundations; and related utility details. Restricted to Community Colleges campuses

Prerequisite(s): DRFT 109.

# DRFT 164. Intermediate Mechanical Drafting/Solid Modeling 3 Credits (2+2P)

Intermediate 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Autodesk Inventor software. The creation of 2D working drawings from 3D solid models will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), basic material properties, and industry standard fastening and manufacturing methods will be introduced.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

# DRFT 165. Introduction to Building Information Modeling 3 Credits (2+2P)

Introduction to Building Information Modeling (BIM) in the development of virtual 3D building models, construction documents, renderings and basic animations related to architectural, structural, and mechanical/ electrical/plumbing building components. Utilizes the latest BIM technologies in the integration one, parametric BIM. Restricted to Community Colleges campuses only.

# DRFT 176. Solid Modeling, Rendering and Animation 3 Credits (2+2P)

Introduction to three dimensional drafting and solid modeling, rendering and animation for architecture and engineering fields. Material application, mapping, and scene lighting will be introduced. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

# **DRFT 180. Residential Drafting**

### 3 Credits (2+2P)

Basic residential drafting including, floor plans, foundation plans, sections, roof plans, exterior and interior elevations, and site plans. Applicable residential building and zoning codes, construction methods and materials, adaptable residential design, and drawing and sheet layout for architectural drafting will be introduced. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 109.

# DRFT 181. Commercial Drafting

## 3 Credits (2+2P)

Drafting principles, plan coordination, and code analysis applicable in the development of working drawings for commercial, public, and industrial building projects. Students will utilize National Cad Standards, ADA Standards, and will be introduced to modern office practice. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s):** DRFT 109.

# DRFT 190. Finding and Maintaining Employment 2 Credits (2)

Techniques in self-evaluations, resume writing, application completion, job interviewing, and job retention. Exposure to work ethics, employee attitudes, and employer expectations.

# DRFT 204. Geographic Information Systems Technology 3 Credits (2+2P)

The use of digital information for which various digitized data creation methods are captured. Users will capture, store, analyze and manage spatially referenced data in a modeled mapping procedure. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

# DRFT 214. Advanced Solid Modeling

## 3 Credits (2+2P)

Advanced 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Solidworks software. The creation of 2D working drawings from 3D solid models and the creation of 3D models for machining/manufacturing will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), material properties, and industry standard fastening and manufacturing methods will be further explored. **Prerequisite(s)/Corequisite(s):** DRFT 114. Restricted to Community Colleges campuses only.

# DRFT 222. Surveying Fundamentals

# 3 Credits (2+3P)

Theory and practice of geomatics as applied to plane surveying in the areas of linear measurements, angle measurements, area determination, differential and trigonometric leveling, and topographic mapping. Crosslisted with: SUR 222. Restricted to Community Colleges campuses only.

Prerequisite(s): MATH 1250G.

# DRFT 230. Building Systems Drafting

## 3 Credits (2+2P)

Development of working drawings for electrical, plumbing, and HVAC systems, for residential and commercial building through the applications of both 2D Drafting and 3D Building Information Modeling (BIM) techniques. Basics of project setup, National CAD Standards, ADA Standards, modern office practice, code analysis, as well as Sustainability and LEED for new construction. Restricted to: Community Colleges only. **Prerequisite(s):** DRFT 180 or DRFT 181.

# DRFT 231. Construction Methods and Equipment 3 Credits (2+2P)

Introduction to methods and equipment utilized in the construction industry including, common construction equipment, equipment utilization, equipment operating costs, site and earthwork, applicable specifications and testing, and related planning and safety considerations. Restricted to Community Colleges campuses only. **Prerequisite(s):** DRFT 151.

# DRFT 240. Structural Systems Drafting 3 Credits (2+2P)

Study of foundations, wall systems, floor systems and roof systems in residential, commercial and industrial design/construction. Produce structural drawings including foundation plans, wall and building sections, floor and roof framing plans, shop drawings and details; schedules, materials lists and specifications. Use of various software. May be repeated up to 3 credits.

**Prerequisite(s)/Corequisite(s):** DRFT 180 or DRFT 181. Restricted to Community Colleges campuses only.

# DRFT 242. Roadway Development Drafting 3 Credits (2+2P)

Advanced civil/survey technology and drafting related to roadway development. Emphasis is on relevant terminology, codes/standards, and the production of complex working drawings such as topographical/ grading, drainage, master utilities, roadway P P/details/etc., according to agency standards. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** DRFT 143.

# DRFT 243. Land Development Drafting 3 Credits (2+2P)

Advanced civil/survey technology and drafting related to land development. Emphasis is on relevant terminology codes/standards, and the production of complex working drawings such as subdivision plats, local utility and drainage plans, construction details roadway P P, etc., according to local development/ agency standards. **Prereguisite:** DRFT 143 and DRFT 153.

DRFT 250. Principles of Detailing and Design

# 3 Credits (2+2P)

Advanced practice in construction documentation in the development and coordination of working drawings & specifications. In particular, will utilize Architectural Graphic Standards, National CAD Standards, and ADA standards to develop detail drawings related to Architectural, Civil, Structural and Building Mechanical systems. Will also be introduced to basic principles, factors, and process of building design such as space planning, site analysis, and basic architectural programming. May be repeated up to 3 credits.

**Prerequisite(s)/Corequisite(s):** DRFT 180 or DRFT 181. Restricted to Community Colleges campuses only.

# DRFT 254. Spatial Data Processing

# 3 Credits (2+2P)

Utilizes the tools and technologies of GIS, processing volumes of geodata identifying a numerical, coded or listed map. Involves the analysis of spatial data from various diverse applications and place in a descriptive mapping process. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

# Prerequisite(s): DRFT 204.

# DRFT 255. Independent Study

# 1-3 Credits (1-3)

Instructor-approved projects in drafting or related topics specific to the student's individual areas of interest and relevant to the drafting and graphics technology curriculum. Consent of instructor required. May be repeated for a maximum of 6 credits.

## DRFT 258. Introduction to Infraworks

### 3 Credits (2+2P)

Introduction to the utilization of Infraworks software for the conceptualization, optimization, and visualization of infrastructure projects in the context of the built and natural environment. Restricted to Community Colleges campuses **Prerequisite(s):** DRFT 143.

# DRFT 261. Construction Scheduling and Project Management 3 Credits (2+2P)

Introduction to construction scheduling and project management. Restricted to Community Colleges campuses only. **Prerequisite(s):** DRFT 161.

# DRFT 265. Advanced Building Information Modeling Applications 3 Credits (2+2P)

Advanced applications of Building Information Modeling (BIM) including the creation of, and practice in collaborative work sets, data and design analyses, energy modeling and analysis, preliminary LEED analysis, construction take-offs & estimation, and construction animation, through use of various BIM and related software. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 165.

# DRFT 274. GIS Theory and Analysis 3 Credits (2+2P)

Analyzes the hypothesis in which location and spatial data sufficiently quantifies the appropriate statistical methodology. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** DRFT 254.

# DRFT 276. Computer Rendering and Animation I 3 Credits (2+2P)

Introduction to technical applications of computer generated renderings and animations for the architecture and engineering fields. 3D models, photo-realistic renderings, and basic animation movie files will be produced utilizing industry standard modeling and animation software.

# DRFT 278. Advanced CAD Applications

# 3 Credits (2+2P)

Introduction to advanced CAD commands, applications, usage techniques, and user customization. the latest version of the National CAD Standards will also be explored. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

# DRFT 288. Portfolio Development

# 3 Credits (2+2P)

Production of a portfolio consisting of previously produced student work related to the student's individualized degree option. Process shall include the compilation and organization of working and presentation drawings, construction documents, BIM Models, and renderings/ animations. Students will learn the basics of design layout and online portfolio documentation. Job search and resume preparation activities will also be required. Production of new material and content may also be required. This course is designed as a last semester course in the Drafting & Design curricula. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of Instructor.

# **DRFT 290. Special Topics**

### 1-4 Credits (1-4)

Topics subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

# DRFT 291. Cooperative Experience

### 1-6 Credits (1-6)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student meets with advisor weekly. Graded S/U. **Prerequisite:** consent of instructor.

# DRFT 295. Professional Development and Leadership DAGA 1 Credit (1)

Students gain experience in leadership, team building, performing community service, and membership and/or leadership in a student organization. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

# **E E-ELECTRICAL ENGINEERING (E E)**

# E E 100. Introduction to Electrical and Computer Engineering 4 Credits (3+3P)

Introduction to analog (DC) and digital electronics. Includes electric component descriptions and equations, Ohm's law, Kirchhoff's voltage and current laws, ideal op-amp circuits, Boolean algebra, design of combinational and sequential logic circuits and VHDL or VERILOG. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): C- or better in MATH 1250G.

# E E 112. Embedded Systems

# 4 Credits (3+3P)

Introduction to programming through microcontroller-based projects. Extensive practice in writing computer programs to solve engineering problems with microcontrollers, sensors, and other peripheral devices. **Prerequisite(s)/Corequisite(s):** E E 100.

# E E 200. Linear Algebra, Probability and Statistics Applications 4 Credits (3+3P)

The theory of linear algebra (vectors and matrices) and probability (random variables and random processes) with application to electrical engineering. Computer programming to solve problems in linear algebra and probability.

Prerequisite(s): C- or better in E E 112 and MATH 1521G or MATH 1521H.

# E E 212. Introduction to Computer Organization

# 4 Credits (3+3P)

Concepts of modern computer organization, CPU control, pipelining, memory hierarchies, memory mapping, hardware-software interface, and operating systems.

**Prerequisite(s)/Corequisite(s):** E E 112. Prerequisite(s): C- or better in E E 100 and MATH 1250G.

# E E 230. Circuit Analysis and Introduction to Electronics 4 Credits (3+3P)

Circuit analysis techniques, RLC transients, phasors, filter response, and an introduction to discrete electronic devices.

**Prerequisite(s)/Corequisite(s):** PHYS 1320G. Prerequisite(s): C- or better in E E 100 and MATH 1521G or MATH 1521H.

# E E 240. Multivariate and Vector Calculus Applications 3 Credits (3)

Vector algebra, cylindrical and spherical coordinates, partial derivatives, multiple integrals. Calculus of vector functions through electrostatic applications. Divergence, gradient, curl, divergence theorem, Stokes's theorem, Coulomb's Law, Gauss's Law, electric field, electric potential. Applications in Matlab.

Prerequisite(s): C- or better in MATH 1521G or MATH 1521H and E E 112.

# E T-ENGINEERING TECHNOLOGY (E T)

# E T 104. Soldering Techniques

1 Credit (3P)

Fundamentals of soldering, desoldering, and quality inspection of printed circuit boards.

# E T 106. Drafting Concepts/Computer Drafting Fundamentals I 4 Credits (2+4P)

Basic drafting skills, terminology, and visualization. Introduction to principles and fundamentals of computer-aided drafting. Community Colleges only. Same as DRFT 112.

Prerequisite: OECS 125, OECS 207, or consent of instructor.
### 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 (3)

Renewable energy systems, including topics in thermal-solar photovoltaic, wind, geothermal systems, and other current topics. Theory, practical applications, safety considerations and the economics of alternative renewable energy systems compared to conventional systems.

# E T 153. Introduction to Computer Networks 3 Credits (3)

Introduction to basic computer network fundamentals including International Open Systems Interconnect (OSI), the seven-layer model, and various networking hardware devices. Community Colleges only.

### E T 154. Construction Methods and Communications 3 Credits (3)

Blueprint reading, specifications, and introduction to materials used in construction.

### 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 (2)

This course introduces information security terminology, historical evolution of digital security, types of PC and network system vulnerabilities and types of information loss. In addition, methods of information protection and integrity, intrusion detection, and recovery of data are introduced.

**Prerequisite(s)/Corequisite(s):** E T 120. Restricted to Community Colleges campuses only.

# E T 160. Windows Fundamentals for IET 3 Credits (3)

Fundamental review of the Windows operating system including installation and upgrades as well as managing applications, files, folders, devices and maintenance.

### E T 182. Digital Logic

### 3 Credits (3)

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 1220G.

### E T 183 L. Applied DC Circuits Lab 1 Credit (2P) 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 1250G. Prerequisite(s): E T 183.

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### E T 184 L. Applied AC Circuits Lab

1 Credit (2P) 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 1250G.

### E T 191. Applied Circuits Laboratory

1 Credit (2P)

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 (3)

Fundamental concepts of various proof techniques. These concepts will be applied to the use of computer algorithms, programming languages and other engineering and technology applications. **Prerequisite(s):** MATH 1250G and E T 262.

### E T 210. Intermediate 3-D Modeling (Solid Works)

### 3 Credits (3)

Intermediate 3-D modeling. Applied modeling of techniques to prepare for SolidWorks certification (CSWA).

### Prerequisite(s): E T 110.

E T 217. Manufacturing Processes

### 3 Credits (3)

Introduction to manufactuing and processing, including: casting, forming, and machining. Emphasis on creating products with the appropriate techniques. Crosslisted with: I E 217.

**Prerequisite(s)/Corequisite(s):** E T 217L. Prerequisite(s): E T 110 and MATH 1220G.

### E T 217 L. Manufacturing Processes Lab

### 1 Credit (3P)

Hands-on laboratory in machine shop to apply topics from E T 217, including: casting, forming, and machining. **Prerequisite(s)/Corequisite(s)**: E T 217.

### 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 (2P)

Introduction to Servo Systems. Topics include uses of servos in the industry, servo types, lop gains and frequency response, software control systems, damping, feedback, encoders, synchros and resolvers. Restricted to Community Colleges campuses only. **Prerequisite(s):** E T 246.

### E T 240. Applied Statics

### 3 Credits (3)

Fundamental topics of applied statics, including force system analysis, equilibrium, free body diagrams, methods of joints and sections, distributed loads, friction, centroids, area moments, and shear and moment diagrams.

**Prerequisite(s)/Corequisite(s):** MATH 1430G or MATH 1511G. Prerequisite(s): PHYS 1230G or PHYS 1310G.

### E T 241. Applied Dynamics

### 3 Credits (3)

The foundation for understanding particles and bodies in motion and the forces involved, including: projectile motion, Newton's Laws of Motion, conservation of energy, and impusle and momentum.

**Prerequisite(s)/Corequisite(s):** (MATH 1140 or MATH 1521G or MATH 1521H). Prerequisite(s): E T 240.

### E T 245. Computer Hardware Fundamentals 3 Credits (2+2P)

Computer hardware fundamentals including architecture, interfacing, peripherals, troubleshooting, system upgrades, and maintenance. Restricted to Las Cruces campus only.

#### 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): ET 155.

### E T 254. Concrete Technology

### 3 Credits (2+2P)

Fundamentals of aggregates, Portland cement, and asphalt used in design and construction.

### E T 255. Linux System Administration

### 3 Credits (3)

A system administration view of the Linux operating system covering various distributions with a focus on managing the operating system and enterprise applications that run on Linux.

#### E T 256. Networking Operating Systems III 3 Credits (3+1P)

Introduction to a computer network operating system. May not be used as part of an 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 1250G.

### 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 1430G or MATH 1511G. 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): E T 182.

### E T 280. Multimedia Tools and Support

### 3 Credits (3)

Introduction to video, audio and other digital presentation methods. Addresses the latest multimedia technology advances and how they apply to the information and communication technology fields. Sample tools like ffmpeg, and Audacity are covered.

### E T 282. Digital Electronics

### 4 Credits (3+3P)

Applications of digital integrated circuits, multiplexers, counters, arithmetic circuits, and microprocessors.

**Prerequisite(s)/Corequisite(s):** (E T 190 or E T 184). Prerequisite(s): E T 182.

### 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 (3)

The course covers detailed analysis of network security, including security operations and policy adherence; internal and external vulnerabilities; methods of identifying, controlling and managing system access, and the protection of system information.

Prerequisite(s)/Corequisite(s): E T 283. Prerequisite(s): E T 156.

### E T 286. Information Security Certification Preparation 4 Credits (4)

The course covers the examination objectives and detailed preparation for a certification in information security. **Prerequisite(s):** E T 285.

### E T 290. Networking Wireless Communication 3 Credits (3+1P)

This course provides an introduction to wireless networking and communications. Some of the topics covered are protocols, transmission methods, and IEEE 802.11 standards. Wireless LAN (WLAN) fundamentals, devices, and security, cellular telephony, broadband, and satellite communications.

Prerequisite: E T 273.

### E T 291. PC Forensics and Investigation 3 Credits (3)

Introduction to computer forensics and investigative fundamentals. Topics include understanding computer forensic and investigation law and requirements, processing crime and incident scenes, and the extraction, preservation, analysis and presentation of computer-related evidence.

Prerequisite(s): E T 120 or E T 122.

# ECED-EARLY CHILDHOOD EDUCATION (ECED)

# ECED 1110. Child Growth, Development, and Learning 3 Credits (3)

This basic course in the growth, development, and learning of young children, prenatal through age eight, provides students with the theoretical foundation for becoming competent early childhood professionals. The course includes knowledge of how young children grow, develop and learn. Major theories of child development are integrated with all domains of development, including biological-physical, social, cultural, emotional, cognitive and language. The adult's role in supporting each child's growth, development and learning is emphasized.

### ECED 1115. Health, Safety, and Nutrition

### 2 Credits (2)

This course provides information related to standards and practices that promote children's physical and mental well-being sound nutritional practices, and maintenance of safe learning environments. It includes information for developing sound health and safety management procedures for indoor and outdoor learning environments for young children. The course examines the many scheduling factors that are important for children's total development, healthy nutrition, physical activity, and rest.

### ECED 1120. Guiding Young Children 3 Credits (3)

This course explores various theories of child guidance and the practical applications of each. It provides developmentally appropriate methods for guiding children and effective strategies and suggestions for facilitating positive social interactions. Strategies for preventing challenging behaviors through the use of environment, routines and schedule will be presented Emphasis is placed on helping children become self- responsible, competent, independent, and cooperative learners and including families as part of the guidance approach.

# ECED 1125. Assessment of Children and Evaluation of Programs 3 Credits (3)

This basic course familiarizes students with a variety of culturally appropriate assessment methods and instruments, including systematic observation of typically and non-typically developing children. The course addresses the development and use of formative and summative assessment and evaluation instruments to ensure comprehensive quality of the total environment for children, families, and the community. Students will develop skills for evaluating the assessment process and involving other teachers, professionals and families in the process. **Prerequisite(s):** ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

### ECED 1130. Family and Community Collaboration 3 Credits (3)

This beginning course examines the involvement of families and communities from diverse cultural and linguistic backgrounds in early childhood programs. Ways to establishes collaborative relationships with families in early childhood settings is discussed. Families' goals and desires for their children will be supported through culturally responsive strategies.

**Prerequisite(s):** ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

### ECED 2110. Professionalism

### 2 Credits (2)

This course provides a broad-based orientation to the field of early care and education. Early childhood history, philosophy, ethics and advocacy are introduced. Basic principles of early childhood systems are explored. Multiple perspectives on early care and education are introduced. Professional responsibilities such as cultural responsiveness and reflective practice are examined.

# ECED 2115. Introduction to Language, Literacy, and Reading 3 Credits (3)

This course is designed to prepare early childhood professionals for promoting children's emergent literacy and reading development. Through a developmental approach, the course addresses ways in which early childhood professionals can foster young children's oral language development, phonemic awareness, and literacy problem solving skills, fluency, vocabulary, and comprehension. . This course provides the foundation for early childhood professionals to become knowledgeable about literacy development in young children. Instructional approaches and theory-based and research based strategies to support the emergent literacy and reading skills of native speakers and English language learners will be presented.

**Prerequisite(s):** ECED 1110 and (ENGL 1110G or ENGL 1110H, or ENGL 1110M).

# ECED 2120. Curriculum Development through Play Birth through Age 4 (PreK)

### 3 Credits (3)

The beginning curriculum course places play at the center of curriculum in developmentally appropriate early childhood programs. It addresses content that is relevant for children birth through age four in developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with special needs and the development of IFSPs is included. Curriculum development in all areas, including literacy, numeracy, the arts, health, science, social skills, and adaptive learning for children, birth through age four, is emphasized. Consent of instructor required.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2121.

### ECED 2121. Curriculum Development through Play Birth through Age 4 (PreK) Practicum

#### 2 Credits (2)

The beginning practicum course is a co-requisite with the course Curriculum Development through Play – Birth through Age 4. The field based component of this course will provide experiences that address curriculum content that is relevant for children birth through age four in developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with special needs and the development of IFSPs is included. Curriculum development in all areas, including literacy, numeracy, the arts, health, science, social skills, and adaptive learning for children, birth through age four, is emphasized. Consent of instructor required.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2120.

# ECED 2130. Curriculum Development and Implementation Age 3 (PreK) through Grade 3

#### 3 Credits (3)

The curriculum course focuses on developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Development and implementation of curriculum in all content areas, including literacy, numeracy, the arts, health and emotional wellness, science, motor and social skills, is emphasized. Information on adapting content areas to meet the needs of children with special needs and the development of IEP's is included. Consent of instructor required. **Prerequisite(s):** ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2131.

# ECED 2131. Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum

#### 2 Credits (2)

The beginning practicum course is a co-requisite with the course Curriculum Development and Implementation: Age 3 through Grade 3. The field based component of this course will provide experiences that address developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Development and implementation of curriculum in all content areas, including literacy, numeracy, the arts, health and emotional wellness, science, motor and social skills is emphasized. Information on adapting content areas to meet the needs of children with special needs and the development of IEPs is included. Consent of instructor required. Corequisite(s): ECED 2130

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

# ECED 2140. Effective Program Development for Diverse Learners and their Families

#### 3 Credits (3)

This course addresses the role of a director/administrator in the implementation of family-centered programming that includes individually appropriate and culturally responsive curriculum in a healthy and safe learning environment for all children and their families.

# ECED 2141. Effective Program Development for Diverse Learners and their Families Practicum

#### 2 Credits (2)

Provides opportunities for students to apply knowledge gained from Curriculum for Diverse Learners and their Families in a practicum setting. Consent of instructor required. Restricted to ECED majors. **Corequisite(s):** ECED 2140.

### ECED 2215. Program Management

#### 3 Credits (3)

This course emphasizes the technical knowledge necessary to develop and maintain an effective early care and education program. It focuses on sound financial management and vision, the laws and legal issues that affect programs, and state and national standards such as accreditation. Consent of instructor required.

#### ECED 2280. Professional Relationships

#### 3 Credits (3)

This course addresses staff relations that will foster diverse professional relationships with families, communities and boards. Topics of staff recruitment, retention, support and supervision will lay the foundation for positive personnel, family and community relationships. Consent of instructor required.

Corequisite(s): ECED 2281.

### ECED 2281. Professional Relationships Practicum

#### 2 Credits (2)

Practical experience in the development of staff relationship that will foster professional relationships with families, communities and boards. Issues of staff recruitment, retention, support and supervision will lay a foundation for positive personnel management. Consent of instructor required. Restricted to ECED majors. **Corequisite(s):** ECED 2280.

# **ECON-ECONOMICS (ECON)**

#### ECON 1110G. Survey of Economics

#### 3 Credits (3)

This course will develop students' economics literacy and teaches students how economics relates to the everyday life of individuals, businesses and society in general. The course will also introduce students to the roles different levels of governments play in influencing the economy. At the conclusion of the course, students will be able to identify economic causes for various political and social problems at national and international levels, and have a better understanding of everyday economic issues that are reported in media and public forums.

### ECON 2110G. Macroeconomic Principles

#### 3 Credits (3)

Macroeconomics is the study of national and global economies. Topics include output, unemployment and inflation; and how they are affected by financial systems, fiscal and monetary policies.

# ECON 2110H. Principles of Macroeconomics Honors 3 Credits (3)

Macroeconomic theory and public policy designed: national income concepts, unemployment, inflation, economic growth and international payment problems. Must be a Crimson Scholar. **Prerequisite(s):** MATH 1220G.

# ECON 2120G. Microeconomics Principles 3 Credits (3)

This course will provide a broad overview of microeconomics. Microeconomics is the study of issues specific to households, firms, or industries with an emphasis on the role of markets. Topics discussed will include household and firm behavior, demand and supply,government intervention, market structures, and the efficient allocation of resources.

### ECON 2120H. Principles of Microeconomics Honors 3 Credits (3)

Microeconomic theory and public policy: supply and demand, theory of the firm, market allocation of resources, income distribution, competition and monopoly, governmental regulation of businesses and unions. Must be a Crimson Scholar.

Prerequisite(s): MATH 1220G.

### **EDLT-EDUCATIONAL TECHNOLOGY**

### EDLT 2110. Integrating Technology with Teaching 3 Credits (3)

Considers impact of technology on communication and knowledge development; engages students in the design of technology-integrated lessons with a constructivist approach.

# **EDUC-EDUCATION (EDUC)**

### EDUC 1110. Freshman Orientation

### 1 Credit (1)

Introduction to the university and to the College of Education. Discussion of planning for individualized education program and field experience. Restricted to Las Cruces campus only.

### EDUC 1120. Introduction to Education 2 Credits (2)

Introduction to the historical, philosophical, sociological foundations of education, current trends, and issues in education; especially as it relates to a multicultural environment. Students will use those foundations to develop effective strategies related to problems, issues and responsibilities in the field of education. Restricted to Las Cruces campus only.

### EDUC 1140. Math for Paraprofessionals

### 3 Credits (3)

Applied math skills for paraprofessionals working with children. **Prerequisite:** CCDM 103 N.

### EDUC 1150. Math for Paraprofessionals II

**3 Credits (3)** Applied math skills for paraprofessionals w

Applied math skills for paraprofessionals working under the direction of a teacher.

Prerequisite(s): EDUC 1140.

### EDUC 1185. Introduction to Secondary Education and Youth 3 Credits (3)

Introductory course for students considering a career in secondary education. Includes historical, philosophical, and sociological foundations, program organization, critical dispositions, and understanding the context of schools and youth. Practicum required. Restricted to: Secondary Ed majors. Traditional Grading with RR.

### EDUC 1995. Field Experience I

#### 1 Credit (1)

Introduction to public school teaching, school visits, classroom observations and discussion seminar.

### EDUC 1996. Special Topics in Education

#### 1 Credit (1)

Supervised study in a specific area of interest. Each course shall be designated by a qualifying subtitle. May be repeated for a maximum of 9 credits.

### EDUC 1998. Internship I

3 Credits (3)

Supervised experience in elementary education settings.

### EDUC 2710. Pre-Teacher Preparation

#### 3 Credits (3)

Assists students in developing the necessary competencies needed for acceptance to the Teacher Education Program. Course content includes basic skill development, test taking skills, and completion of teacher preparation packet. Maybe repeated for a maximum of 6 credits. Graded S/U. Community Colleges only.

### EDUC 2998. Internship II

#### 3 Credits (3)

Supervised experience in junior high settings. **Prerequisite:** must be a co-op student.

### ELAD-EDUCATIONAL LEADERSHIP ADMINISTRATION

### ELAD 2210. Leadership and Change in Education 3 Credits (3)

This course will introduce students to the challenges and key strategies in initiating, implementing, and sustaining educational change and reform. In the first part of the course, participants will learn about the challenges of educational change in the United States and the role that they as school leaders play in facilitating change and reform. The course continues with an examination of how culture, micro-politics, and power structures support or impede national and global change initiatives. The last part of the course offers suggestions for change agents including community organizing, culture building, and embracing sustainable leadership practices. Participants will learn how to apply the change theories and concepts introduced in the course to practice through course readings, online discussions with the instructor and colleagues, group work, active examination of daily practice in schools, and personal reflection.

# ELAD 2340. Multicultural Leadership in Education 3 Credits (3)

Introduction to the social and cultural constructions of gender, class, and race. Students will critically apply theoretical constructs to everyday life and discuss the intersection of gender and race with class inequality in national and global contexts. Using a social justice framework, readings, and assignments integrate a variety of racial/ethnic groups while considering the effects of historically uneven resource distribution, unearned privilege, forms of domination and subordination, immigration status, and cultural representation and ideologies. Participants will learn how to apply the change theories and concepts introduced in the course to practice through course readings, online discussions with the instructor and colleagues, group work, active examination of daily practice in schools, and personal reflection.

#### ELAD 2996. Special Topics in Educational Leadership 1-3 Credits (1-3)

Special topics course in education for undergraduate students. Course will be identified by a subtitle. May be repeated up to 12 credits. Restricted to Las Cruces campus only.

# ELT - ELECTRONICS TECHNOLOGY (ELT)

### ELT 103. Math Study Skills for Electronics

### 1 Credit (1)

Covers specific math study skills and critical thinking processes to reinforce practical applications of math and its use with electronics. The student will be introduced to electronic mathematical formulas during the problem-solving steps required for circuit analysis. May be repeated up to 4 credits.

**Prerequisite(s)/Corequisite(s):** 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 (4)

Includes fundamental mathematics, algebra, sine, cosine, and other elementary functions as they specifically apply to the operation, manipulation, and evaluation of direct current (DC) and alternating current (AC) circuits. Minimum math proficiency of CCDM 114 required or math placement into MATH 1215 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 124

#### ELT 135. Electronics II 4 Credits (3+3P)

Analysis of AC circuits, filters, and resonance. Introduction to solid state fundamentals including diodes and rectifier circuits, voltage regulators, various transistors and transistor characteristics, amplification and amplifiers, photoelectric effects, gates and timing circuits. Restricted to Community Colleges campuses only.

Prerequisite(s): ELT 110 and ELT 120.

# ELT 155. Electronics CAD and PCB Design 3 Credits (2+2P)

Introduction to and the use of commercially available CAD software covering schematic representation of electronic components and circuits. Printed circuit board layout techniques including proper schematic capture, netlist generation, design rule checking and manual routing covered.

### ELT 160. Digital Electronics I

### 4 Credits (3+3P)

Number systems, codes, Boolean algebra, logic gates, Karnaugh maps, combination circuits, flip-flops, and digital troubleshooting techniques. Restricted to: Community Colleges only.

Prerequisite(s): ELT 110 and (ELT 120 or MATH 1215).

### ELT 175. Soldering Practices 3 Credits (2+2P)

Methods and techniques of hand soldering in the production of high quality and reliable soldering connections. Restricted to: Community Colleges only.

### ELT 205. Semiconductor Devices

### 4 Credits (3+3P)

Analysis and trouble shooting of linear electronic circuits including amplifiers, op-amps, power supplies, and oscillators. Restricted to: Community Colleges only.

Prerequisite(s): ELT 110 and ELT 135.

#### ELT 215. Microprocessor Applications I 4 Credits (3+2P)

Fundamentals of microprocessor architecture and assembly language with an emphasis on hardware interfacing applications.

**Prerequisite(s)/Corequisite(s):** ELT 235. Prerequisite(s): ELT 160. Restricted to: Community Colleges only.

### ELT 220. Electronic Communication Systems 4 Credits (3+2P)

Principles and applications of circuits and devices used in the transmission, reception, and processing of RF, microwave, digital and telecommunications systems.

**Prerequisite(s)/Corequisite(s):** ELT 205. Prerequisite(s): ELT 135. Restricted to: Community Colleges only.

#### ELT 221. Cooperative Experience I

#### 1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U. **Prerequisite:** consent of instructor.

#### ELT 222. Cooperative Experience II

#### 1-6 Credits

Continuation of ELT 221. Maximum of 6 credits. Graded S/U. **Prerequisite:** consent of instructor.

# ELT 225. Computer Applications for Technicians 3 Credits (2+2P)

An overview of computer hardware, software applications, operating systems, high level programming languages and networking systems.

#### ELT 230. Microprocessor Applications II

#### 4 Credits (3+2P)

Advanced microprocessor interfacing techniques. Topics in A/D and D/ A conversion, I/O port address decoding, direct memory accessing, and peripheral device interfacing applications. **Prerequisite:** ELT 215.

### ELT 235. Digital Electronics II

### 3 Credits (2+2P)

Sequential logic circuits, latches, counters, shift-registers, fault analysis and troubleshooting of digital IC s, multiplexers, timers, encoders/ decoders, arithmetic circuits, pulse shaping, and memory devices. Restricted to: Community Colleges only. **Prerequisite(s):** ELT 160.

#### ELT 240. Introduction to Photonics 4 Credits (3+2P)

Nature of light, light emitters, lasers, detectors, fiber optics communications systems, and other applications of light to electronics. **Prerequisite:** ELT 135 or consent of instructor.

### ELT 250. Electronics Systems Analysis

#### 2 Credits (1+3P)

Capstone course emphasizing a systems approach to troubleshooting and maintaining complex electronics systems. Includes program review in preparation for technician certification.

Prerequisite: consent of instructor.

### ELT 260. Instrumentation Control and Signal Conditioning 4 Credits (3+2P)

Introduction to sensors and transducers, signal conditioning and transmission for measuring and process control systems. Includes AD, DA converter, small servos and actuators. Prerequisite:ELT 205.

#### ELT 265. Special Topics

#### 1-6 Credits

Topic to be announced in the Schedule of Classes.

### ELT 270. Biomedical Equipment Instrumentation 4 Credits (3+2P)

Principles and applications of electronic circuits and devices used in biomedical equipment. Skills taught to include evaluating, troubleshooting and repairing various types of medical equipment. **Prerequisite(s)/Corequisite(s):** ELT 260. Prerequisite(s): ELT 205. Restricted to: Community Colleges only.

### **ELWK - ELECTRICAL LINEWORKER**

### ELWK 130. Introduction to Electrical Power Systems

2 Credits (2)

An overview of electrical power systems, equipment, safety practices, first aid and CPR. May be repeated up to 2 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Corequisite(s): OEET 110,OEET 131.

#### ELWK 131. Electrical Lineworker Lab I 6 Credits (12P)

Climbing and work on utility poles using ropes and rigging, pole setting and an introduction to transmission and distribution line construction. Maintenance and troubleshooting to include the use of hot sticks. May be repeated up to 6 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only. **Corequisite(s):** OEET 110,0EET 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. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Corequisite(s): OEET 141.

### ELWK 141. Electrical Lineworker II

### 6 Credits (12P)

Practice in the installation of electrical power lines including transformers, voltage regulators, and surge arrestors. Also advanced hot sticking procedures, troubleshooting, underground systems procedures, and pole-top rescue. May be repeated up to 6 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Corequisite(s): OEET 140.

### ELWK 221. Cooperative Experience I

#### 1-4 Credits (1-4)

Supervised cooperative work program. Student is employed in an approved occupation and is supervised and rated by the employer and instructor. Student will meet in a weekly class. May be repeated up to 4 credits. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. **Prerequisite(s):** Consent of Instructor.

# **ENGL-ENGLISH (ENGL)**

### ENGL 1105M. Intermediate ESL Composition and Grammar Review 3 Credits (3)

Development of fluent academic writing skills, with an emphasis on grammar review for editing purposes. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

**Prerequisite(s):** Placement based on English language screening test, and either a minimum TOEFL score of 500 or consent of instructor.

#### ENGL 1110G. Composition I 4 Credits (4)

In this course, students will read, write, and think about a variety of issues and texts. They will develop reading and writing skills that will help with the writing required in their fields of study and other personal and professional contexts. Students will learn to analyze rhetorical situations in terms of audience, contexts, purpose, mediums, and technologies and apply this knowledge to their reading and writing. They will also gain an understanding of how writing and other modes of communication work together for rhetorical purposes. Students will learn to analyze the rhetorical context of any writing task and compose with purpose, audience, and genre in mind. Students will reflect on their own writing processes, learn to workshop drafts with other writers, and practice techniques for writing, revising, and editing.

**Prerequisite(s):** ACT standard score in English of 16 or higher, or an Accuplacer score 250 or higher, or an SAT score of 400 or higher or CCDE 1110 N.

#### ENGL 1110H. Composition I Honors 4 Credits (4)

In this course, students will read, write, and think about a variety of issues and texts. They will develop reading and writing skills that will help with the writing required in their fields of study and other personal and professional contexts. Students will learn to analyze rhetorical situations in terms of audience, contexts, purpose, mediums, and technologies and apply this knowledge to their reading and writing. They will also gain an understanding of how writing and other modes of communication work together for rhetorical purposes. Students will learn to analyze the rhetorical context of any writing task and compose with purpose, audience, and genre in mind. Students will reflect on their own writing processes, learn to workshop drafts with other writers, and practice techniques for writing, revising, and editing. Individualized assignments and independent study.

**Prerequisite:** ACT standard English score of 25 or higher, or an SAT score of 550 or higher.

### ENGL 1110M. Composition I Multilingual 4 Credits (4)

In this course, students will read, write, and think about a variety of issues and texts. They will develop reading and writing skills that will help with the writing required in their fields of study and other personal and professional contexts. Students will learn to analyze rhetorical situations in terms of audience, contexts, purpose, mediums, and technologies and apply this knowledge to their reading and writing. They will also gain an understanding of how writing and other modes of communication work together for rhetorical purposes. Students will learn to analyze the rhetorical context of any writing task and compose with purpose, audience, and genre in mind. Students will reflect on their own writing processes, learn to workshop drafts with other writers, and practice techniques for writing, revising, and editing. For international and multilingual students. Your instructor and classmates will serve as your readers and will give you helpful and constructive criticism, which will in turn assist you in becoming a more fluent and engaging communicator in English. Restricted to Las Cruces campus only.

**Prerequisite(s):** CBT/PB score of 500, or IBT score of 61, or SPCD 110, or consent of instructor.

### ENGL 1120. Composition II

#### 2 Credits (2)

In this course, students will explore argument in multiple genres. Research and writing practices emphasize summary, analysis, evaluation, and integration of secondary sources. Students will analyze rhetorical situations in terms of audience, contexts, purpose, mediums, and technologies and apply this knowledge to their reading, writing, and research. Students will sharpen their understanding of how writing and other modes of communication work together for rhetorical purposes. The emphasis of this course will be on research methods. **Prerequisite:** successful completion of ENGL 1110G or ENGL 1110H or ENGL 1110M.

### ENGL 1410G. Introduction to Literature 3 Credits (3)

In this course, students will examine a variety of literary genres, including fiction, poetry, and drama. Students will identify common literary elements in each genre, understanding how specific elements influence meaning.

# ENGL 2130G. Advanced Composition 3 Credits (3)

This course is for students who are striving for fluency, maturity, clarity and significance in their writing. It is an intermediate writing course that builds on and refines writing skills acquired in previous courses. It focuses on non-fiction writing for the professions, business, science, technical fields, academe and/or the popular press. Short works of master writers are studied for ideas, styleand structure.

# ENGL 2210G. Professional & Technical Communication 3 Credits (3)

Professional and Technical Communication will introduce students to the different types of documents and correspondence that they will create in their professional careers. This course emphasizes the importance of audience, document design, and the use of technology in designing, developing, and delivering documents. This course will provide students with experience in professional correspondence and communicating technical information to a non-technical audience.

**Prerequisite(s):** Grade of C- or better in ENGL 1110G or ENGL 1110H or ENGL 1110M.

### ENGL 2210H. Professional and Technical Communication Honors 3 Credits (3)

Professional and Technical Communication writing for Crimson Scholars/ Honors students will introduce students to the different types of documents and correspondence that they will create in their professional careers. This course emphasizes the importance of audience, document design, and the use of technology in designing, developing, and delivering documents. This course will provide students with experience in professional correspondence and communicating technical information to a non-technical audience. 3.5 GPA is also required. Restricted to Las Cruces campus only.

Prerequisite(s): grade of C- or better in ENGL 1110G or the equivalent; approval of the honors college.

#### ENGL 2215G. Advanced Technical and Professional Communication 3 Credits (3)

Theory and practice of writing in technical and professional fields, individualized to each student s field. Emphasizes efficient writing processes and effective written products. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

Prerequisite(s): Junior or above standing, or consent of instructor.

#### ENGL 2221G. Writing in the Humanities and Social Science 3 Credits (3)

Theory and practice in interpreting texts from various disciplines in the humanities and social sciences. Strategies for researching, evaluating, constructing, and writing researched arguments. Course subtitled in the Schedule of Classes. May be repeated up to 3 credits.

Prerequisite(s): Grade of C- or better in ENGL 1110G or ENGL 1110H, or ENGL 1110M.

### ENGL 2280. History of Argument

### 3 Credits (3)

Investigates the major figures and movements in rhetoric from the classical period to modern rhetorical theory, examining relations between rhetorical teaching and practice, culture, epistemology, and ideology. Main campus only. Prerequisite(s): ENGL 1110G, or ENGL 1110GH, or ENGL 1110M

### ENGL 2310G. Introduction to Creative Writing 3 Credits (3)

This course will introduce students to the basic elements of creative writing, including short fiction, poetry, and creative nonfiction. Students will read and study published works as models, but the focus of this 'workshop' course is on students revising and reflecting on their own writing. Throughout this course, students will be expected to read poetry, fiction, and nonfiction closely, and analyze the craft features employed. They will be expected to write frequently in each of these genres. Prerequisite(s): ENGL 1110G or ENGL 1110H or ENGL 1110M.

### ENGL 2381. Script Development and Storyboarding 3 Credits (3)

Examines effective writing principles for creating storyboards that communicate the overall picture of a project, timing, scene complexity, emotion and resource requirements. Crosslisted with: FDMA 2381.

#### ENGL 2382. Narrative: Principles of Story Across the Media 3 Credits (3)

Examines the various strategies of written and visual storytelling, narrative structure and its principal components (plot, theme, character, imagery, symbolism, point of view) with an attempt to connect them to elements of contemporary forms of media expression, including screenwriting, playwriting, writing for documentaries and animation, etc. Crosslisted with: FDMA 2382

#### ENGL 2520G. Film as Literature 3 Credits (3+3P)

The purpose of this course is to teach students how to analyze film as a visual text. Students will learn to analyze films, film techniques, eras, and genres. Students will also identify significant trends and developments in film-making, examining the ways in which film reflects and creates cultural trends and values.

#### ENGL 2521. The Bible as Literature 3 Credits (3)

Develops informed readings of Hebrew and Christian scriptures. Emphasizes understanding Biblical literary forms, techniques, themes; historical, cultural contexts for interpretation; authorship, composition, audience for individual books; development of Biblical canon.

#### ENGL 2610. American Literature I 3 Credits (3)

This course surveys American literature from the colonial period to the mid-nineteenth century. This course provides students with the contexts and documents necessary to understand the origins of American Literature and the aesthetic, cultural, and ideological debates central to early American culture.

### ENGL 2620. American Literature II

### 3 Credits (3)

This course surveys American literature from the mid-nineteenth-century to the contemporary period. This course provides students with the contexts and documents necessary to understand American literature and the aesthetic, cultural, and ideological debates central to American culture.

### ENGL 2630. British Literature I 3 Credits (3)

This course offers a study of British literature from its origins in Old English to the 18th century. This survey covers specific literary works-essays, short stories, novels, poems, and plays--as well as the social, cultural, and intellectual currents that influenced the literature.

#### ENGL 2640. British Literature II 3 Credits (3)

This course offers a study of British literature from the 18th century to the present. This survey covers specific literary works--essays, short stories, novels, poems, and plays--as well as the social, cultural, and intellectual currents that influenced the literature.

### ENGL 2650G. World Literature I

### 3 Credits (3)

In this course, students will read representative world masterpieces from ancient, medieval and Renaissance literature. Students will broaden their understanding of literature and their knowledge of other cultures through exploration of how literature represents individuals, ideas and customs of the world cultures. The course focuses strongly on examining the ways literature and culture intersect and define each other.

### ENGL 2996. Special Topics

### 1-3 Credits

Emphasis on a literary and/or writing subject chosen for the semester. Repeatable for a unlimited credit under different subtitles.

# **ENGR-ENGINEERING (ENGR)**

### ENGR 100G. Introduction to Engineering

### 3 Credits (2+3P)

An introduction to the various engineering disciplines, the engineering approach to problem solving, and the design process. Projects emphasize the importance of teamwork, written & oral communication skills, as well as ethical responsibilities. May be repeated up to 3 credits. **Prereguisite(s)/Corequisite(s):** MATH 1220G or above.

### ENGR 100GH. Introduction to Engineering Honors 3 Credits (2+3P)

An introduction to the various engineering disciplines, the engineering approach to problem solving, and the design process. Projects emphasize the importance of teamwork, written & oral communication skills, as well as ethical responsibilities. May be repeated up to 3 credits. Crosslisted with: ENGR 100.

Prerequisite(s)/Corequisite(s): MATH 1220G or above.

### ENGR 110. Introduction to Engineering Design 3 Credits (2+3P)

Sketching and orthographic projection. Covers detail and assembly working drawings, dimensioning, tolerance specification, and design project

# ENGR 111. Mathematics for Engineering Applications 3 Credits (3)

An introduction to engineering mathematics and basic programming skills needed to perform elementary data manipulation and analysis. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): MATH 1250G. Prerequisite(s): MATH 1220G.

#### ENGR 198. Special Topics in Engineering 1-3 Credits

Directed individual study of topics in engineering. Written reports covering work required. May be repeated for a maximum of 6 credits. Restricted to engineering majors. Graded S/U. **Prerequisite:** consent of academic dean.

### ENGR 233. Engineering Mechanics I

### 3 Credits (3)

Engineering mechanics using vector methods. Force systems, resultants, equilibrium, distributed forces, area moments, and friction. **Prerequisite(s)/Corequisite(s):** PHYS 1310G. Prerequisite(s): MATH 1521G or MATH 1521H.

### ENGR 234. Engineering Mechanics II

### 3 Credits (3)

Kinetics of particles, kinematics and kinetics rigid bodies, systems of particles, energy and momentum principles, and kinetics of rigid bodies in three dimensions.

Prerequisite(s)/Corequisite(s): MATH 2530G. Prerequisite(s): M E 236, C E 233, or ENGR 233.

### **ENTR-ENTREPRENEURSHIP**

### ENTR 1110. Entrepreneurship

3 Credits (3)

Introduces students to the concept of entrepreneurship and to the process of business startups. **Prerequisite(s):** BUSA 1110.

# **ENVS-ENVIRONMENTAL SCIENCE**

### ENVS 1110G. Environmental Science I

### 4 Credits (3+2P)

Introduction to environmental science as related to the protection, remediation, and sustainability of land, air, water, and food resources. Emphasis on the use of the scientific method and critical thinking skills in understanding environmental issues.

### ENVS 2111. Environmental Engineering and Science 3 Credits (3)

Principles in environmental engineering and science: physical chemical systems and biological processes as applied to pollution control. Restricted to: Main campus, Alamogordo campus, Grants campus, Carlsbad campus. Crosslisted with: C E 256. Prerequisite(s): CHEM 1215G and MATH 1511G or higher

### ENVS 2111L. Environmental Science Laboratory

### 1 Credit (1)

Laboratory experiments associated with the material presented in ENVS 2111. Same as C E 256 L. **Corequisite(s):** ENVS 2111.

### EPWS-ETMLGY/PLNT PTHLGY/WD SCI (EPWS)

### EPWS 1110. Applied Biology

### 3 Credits (3)

Introduction to applied biology and ecology focusing on insects, plants and pathogens in natural areas, crops and urban settings. EPWS 1110L is strongly recommended to take in the same semester. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

### EPWS 1110L. Applied Biology Lab

### 1 Credit (1)

Study of applied biology and ecology of insects, plants and pathogens in natural areas, crops, and urban settings. EPWS 1110 strongly recommended to take in the same semester. May be repeated up to 1 credits. Restricted to Las Cruces campus only.

### EPWS 2996. Special Topics

### 1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

# FCSC-FAMILY AND CONSUMER SCIENCES

# FCSC 2250. Overview of Family and Consumer Sciences Teaching 3 Credits (3)

Overview of planning and teaching skills. Supervised experiences in observing and directing the learning of secondary family and consumer sciences students. Philosophy and history of the profession.

# FCSC 2330. Housing and Interior Design 3 Credits (3)

Investigation of types of housing and factors impacting housing decisions for families. Selection, planning, and arrangement of interior components of homes to meet the needs of the family. Restricted to Las Cruces campus only.

# **FCST-FAMILY AND CHILD STUDIES**

### FCST 1130. Interpersonal Skills in Intimate Relationships

### 3 Credits (3)

Developing social skills within friendships, dating relationships, marriage, parenting, and families. May be repeated up to 3 credits. Restricted to Las Cruces and Dona Ana campuses.

# FCST 2110. Infancy and Early Childhood in the Family 3 Credits (3)

Research and theory relevant to prenatal development and the physical, mental, and socio-emotional development of the child from birth to age five. Attitudes, knowledge, and skills needed for working with young children and their families. Restricted to Las Cruces campus only.

### FCST 2120. Middle Childhood Development in the Family 3 Credits (3)

Research and theory relevant to the physical, mental, social, and emotional development of the child from age five to age twelve. Attitudes, knowledge, and skills related to working with school-age children in the family system. Observation in a variety of settings may be required. Restricted to Las Cruces campus only.

# FCST 2135. Adolescent Development and the Family 3 Credits (3)

Research and theory relevant to the physical, mental, social, and emotional development of the children ages 12 to 18. Attitudes, knowledge, and skills related to working with adolescents in the family system. Observation in a variety of settings may be required. Restricted to Las Cruces campus only.

# FCST 2140. Adult Development and Aging 3 Credits (3)

Research and theory related to the physical, mental, social, and emotional development of older adults. Attitudes, knowledge, and skills related to working with older adults in the family system, including normative, and nonnormative transitions. Restricted to Las Cruces campus only.

### **FDMA-FILM & DIGITAL MEDIA ARTS**

### FDMA 1110. Film History

### 3 Credits (3)

This course surveys the history of cinema -investigating the process by which the original "cinema of attractions" evolved into a globally dominant form of visual storytelling. We will explore the development of cinema both as an art form and as an industry, and consider the technological, economic, cultural factors, and key international movements that shape it.

### FDMA 1120. Desktop Publishing

### 3 Credits (2+2P)

This course is designed to teach introductory skills for designing and creating publications and presentations with layout software. The course will focus on graphics and typographic design, fonts, and other skills for print and web publishing.

### FDMA 1210. Digital Video Production I

### 3 Credits (2+4P)

An introduction to digital video production. Students learn camera operation, lights and audio equipment. Hands-on production is completed in the studio and on location.

# FDMA 1220. Introduction to Digital Video Editing 3 Credits (3)

In this course, students learn the basics of the post-production process for non-linear video editing. Students work with multiple video formats and create short movies for multiple distribution platforms. Skills include media management and professional terminology. **Prerequisite(s)/Corequisite(s):** FDMA 2382.

### FDMA 1260. Introduction to Digital Media 1-3 Credits (1-3)

Explores concepts of how text, graphics, sound, images and video come together in a digital media program and researching new trends and current issues related to media applications and design. Students will be involved in teamwork, communication and workplace interaction simulation . May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

### FDMA 1360. Web Design I

#### 3 Credits (2+2P)

This course provides an introduction to web development techniques, theory, and design. Students will learn HTML, CSS application, and strategies for effective site navigation and design, along with industry standard web editing software to develop various websites. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ARTS 1520 OR FDMA 1515.

### FDMA 1410. Audio Production I

3 Credits (2+2P)

Students will learn about and apply essential tools and techniques in analog and digital audio production. Topics include acoustic science, microphones, recording and mixing techniques, analog and digital audio hardware and software, including, multi-track, computer-based recording and editing systems. Restricted to: Community Colleges only. **Prerequisite(s):** FDMA 1210 and FDMA 2410.

### FDMA 1415. Principles of Sound 3 Credits (2+2P)

The creation of a professional quality original media soundtrack is possible for relatively low production/post production cost. This class is designed to give the student and overview of creating sound for a variety of digital media. Topics include acoustic principles, sound design, audio hardware, recording techniques; and editing, processing, and multi-track mixing, using software applications. Restricted to: Community Colleges only.

### Prerequisite(s)/Corequisite(s): FDMA 1220.

# FDMA 1510. Introduction to 3D Animation 3 Credits (3)

This course provides an overview of 3D animation production processes. Students will be introduced to basic story development and the creation of computer-generated assets and cinematic sequences. The course will survey specialty areas of digital animation and various software and techniques applied in entertainment and information media. Students will review and critique other's animation, as well as plan and produce original animation for review by classmates and as part of a CGI demo reel. **Prerequisite(s):** FDMA 2382 or FDMA 2381 or consent of instructor.

### FDMA 1515. Introduction to Digital Image Editing - Photoshop 3 Credits (2+2P)

In this course, students will learn how to use the tools in Adobe Photoshop to create new images and edit existing images. Tools used will include selections, layers, and adjustments, among other pixel editing tools. Basic composition and output will be emphasized in all projects. May be repeated for a maximum of 6 credits.

### FDMA 1531. Evolution of Electronic Games 3 Credits (2+2P)

Focus on the evolution of video games and how they have shaped mainstream entertainment. May be repeated up to 6 credits.

### FDMA 1535. Introduction to Illustrator

### 3 Credits (2+2P)

Students receive instruction on vector graphics creation using vector illustration software. The students will create professional-quality artwork for print publishing and multimedia graphics. Instruction includes creating and manipulating basic shapes, drawing with the pen tool, using various brushes, working with type and preparing graphics for web, print, and digital publication. May be repeated for a maximum of 6 credits.

### FDMA 1536. Advanced Computer Illustration

### 3 Credits (2+2P)

Advanced techniques in 2D vector drawing and fundamentals of 3D illustration for use in print, web, and multimedia applications. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1535.

# FDMA 1545. Introduction to Photography & Digital Imaging 3 Credits (2+2P)

This course is a study of the principles and techniques of photography using digital equipment, and discusses how digital cameras, imaging editing, and technology have changed the world of photography. Students will learn about studies in resolution, lighting, software, editing, printing, and web applications. They will gain fundamental knowledge in the rapidly expanding technology of photography and imaging, and be able to incorporate the knowledge into all areas of digital graphics.

# FDMA 1555. Introduction to the Creative Media Industry 3 Credits (3)

This class is an introductory course for students who are beginning their understanding of Media and how it affects them and our society. It offers a broad-stroked view of the entire industry including Marketing, Production, History, Jobs, Design, Architecture, New Media Literacy, and industry standards. Students will listen to experts in the field, get involved in open discussions about the industry and use new information to complete hands-on individual & group assignments.

### FDMA 1630. Principles of Design

### 3 Credits (2+2P)

This course will explore how we see and use visuals to communicate information. Students will develop critical thinking skills in applying concepts of basic design principles. Students will apply the concepts with hands-on and analysis assignments. These concepts will then be applied to design for advertising, print, digital media, and web design. The business of design will also be covered with emphasis on client relations and networking Restricted to: Community Colleges only. Prerequisite(s): FDMA 1535

### FDMA 1710. 2D Animation

#### 3 Credits (2+2P)

Concepts and techniques in storyboarding and creating interactive 2D animations for web, multimedia and video. **Prerequisite(s):** FDMA 1535.

#### FDMA 1715. 2-D COMPOSING & FX 3 Credits (3)

The purpose of this course is to familiarize students with the powerful compositing and special effects tools of Adobe After Effects for 2D, traditional animation. Students will learn how to assemble an existing unrendered animation into a final piece with advanced 3D lighting, spacing, and digital effects so that it can achieve a dynamic, professionally rendered look. Restricted to Las Cruces campus only.

### FDMA 1720. 3-D Character Design

#### 3 Credits (2+4P)

Focus on designing a character and then taking that design and building it in 3D using intermediate modeling techniques. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1510 or FDMA 2530.

### FDMA 1996. Selected Topics

#### 1-4 Credits (1-4)

Specific titles to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits. Restricted to Community Colleges campuses only.

# FDMA 2111. Environmental Scene Design 3 Credits (2+4P)

Modeling design techniques used to create environments and scenes for use in animated films and games. Investigation of both natural and architectural environments to be recreated in the virtual world. **Prerequisite(s):** FDMA 1510 or FDMA 2530.

### FDMA 2120. Film Crew I/ Introduction to Film and Media Workflow 9 Credits (9)

An introduction to the film industry. This class teaches film production processes, film crew hierarchy, film production set-safety and etiquette and provides hands-on training in industry standard film production equipment. Students complete the semester by participating as a below-the-line crew member on a short film. Restricted to: Community Colleges only.

### FDMA 2125. Film Crew II

### 9 Credits (9)

The second course designed to train students to become working members of film crews. It will be taught by working film professionals. Content will be lecture and hands-on. Students complete the semester by working as part of an actual film crew as below-the-line and above-theline crew members. Restricted to: Community Colleges only. **Prerequisite(s):** FDMA 2120.

### FDMA 2144. Pre-production Management 3 Credits (2+2P)

Pre-production planning paperwork breakdowns, budgeting, and scheduling; taking a project from start to finish from a producers standpoint.

Prerequisite(s): FDMA 1210.

#### FDMA 2150. Desktop Publishing II 3 Credits (2+2P)

This class will enhance and build upon student layout/design skills developed in the Introduction to Desktop Publishing course, incorporating intermediate to advanced concepts in typography and layout design. Upon completion of this course, students will be able to use page layout software to prepare a variety of documents for presentation and critique, including newsletters, instructional flyers, and other complex design/typographic pieces May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1120.

### FDMA 2210. Digital Video Production II

### 3 Credits (2+2P)

Advanced techniques of the tools and application of professional film making. May be repeated for a maximum of 6 credits. **Prerequisite:** FDMA 1210.

### FDMA 2235. Music Production Master

### 3 Credits (2+2P)

Advanced digital audio post production and recording techniques using current entertainment industry-standard software and hardware. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 1415 and FDMA 2410.

#### FDMA 2241. Advanced Camera Techniques 3 Credits (2+2P)

Professional camera techniques and training for electronic news gathering and studio filmmaking. Utilizes high-end handheld shooting techniques, cranes, dollies, and steadicam training. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1210.

### FDMA 2285. Digital Video Production and Editing II 3 Credits (2+2P)

Advanced features of digital video, audio/music, and titling production software. Included are color correction, vector scopes, motion effects, and advanced editing techniques used by filmmakers. Restricted to Community Colleges campuses only. May be repeated up to 6 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** FDMA 1220.

### FDMA 2287. Digital Design Studio

#### 1-3 Credits

A design studio environment in which students obtain real-world experience while providing service to college and non-profit associations with faculty supervision using a variety of media. Can be used with permission to fulfill cooperative requirement. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1630 or ARTS 1712.

### FDMA 2310. History of Cinema I

### 3 Credits (3)

This course surveys the history of cinema - investigating the process by which the original "cinema of attractions" evolved into a globally dominant form of visual storytelling. We will explore the development of cinema both as an art form and as an industry, and consider the technological, economic, cultural factors, as well as many key international movements that helped shape it. Restricted to: G-CMI, DFM, ANVE majors.

### FDMA 2311. History of Animation

### 3 Credits (3)

Explores the history of Animation as an art form and industry through readings, screenings, lecture and periodic guest speakers. Restricted to: G-CMI, ANVE, DFM majors. Restricted to Las Cruces campus only.

### FDMA 2312. History of Media Design

### 3 Credits (3)

An introduction to the principles of design history and theory within a chronological framework of historical and emerging media.

#### FDMA 2325. Advanced Photoshop 3 Credits (2+2P)

This course expands on the Photoshop skill set to develop proficiency with selections, masking, channels, filters, color correction, painting tools, vector integration, video, special effects, and compositing techniques. The focus is on the core image-editing tools of Photoshop that can be universally applied to photography, print, film or the web. The material is covered in production-oriented projects and students develop work suitable for portfolios. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

### Prerequisite(s): FDMA 1515.

# FDMA 2326. Digital Photography and Imaging II 3 Credits (2+2P)

Provide understanding and skills needed for advanced digital capture, editing, optimizing and manipulating photographic images for print, web and multimedia applications. The course will prepare students to make more advanced technical and more refined aesthetic decisions relative to specific photographic applications. Restricted to: Alamogordo campus, Carlsbad campus, Dona Ana campus.

Prerequisite(s): FDMA 1545.

#### FDMA 2360. Web Design II 3 Credits (2+2P)

In this course, students will refine their skills in coding and web graphic design as well as be introduced to methods in constructing sites that adhere to the standards of responsive web design. Students will expand their knowledge of HTML and CSS using a code editor, and they will both analyze existing websites and also construct an interactive website. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1360.

### FDMA 2365. Web Design for Small Business 3 Credits (2+2P)

Technology and techniques for designing and building a web presence for small business. May be repeated up to 6 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** FDMA 1360.

### FDMA 2370. Advanced Web Techniques

### 3 Credits (2+2P)

Creating and managing complex web sites using advanced techniques and tools. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 1515 and FDMA 2360.

### FDMA 2381. Storyboarding 3 Credits (3)

Examines effective writing principles to create storyboards that communicate the overall picture of a project, timing, scene complexity, emotion and resource requirements. Further, the purpose of this course is to introduce students to the principles of visual storytelling—in film--through the use of the storyboard. In other words, to show how storyboards are critical 'architectural component' of the filmmaking process, used as a blueprint (or guide) to communicate the complex elemnts of a film story. Crosslisted with: ENGL 2381. Restricted to: DFM,ANVE, G-CMI majors. Restricted to Las Cruces campus only.

## FDMA 2382. Principles of Story Across the Media 3 Credits (3)

The purpose of this course is to help students understand the basic elements of narrative structure (e.g. character, dramatic conflict, theme, etc.) and how these elements may be used effectively in media expression. Crosslisted with: ENGL 2382. Restricted to: G-CMI, DFM, ANVE majors. Restricted to Las Cruces campus only.

### FDMA 2410. Audio Production II

#### 3 Credits (2+2P)

Students will use skills developed in the Audio Production I course to produce audio projects utilizing a variety of analog and digital audio hardware and software, including continued use of multi-track, computerbased recording and editing systems, as well as exploring more advanced audio techniques and concepts. Restricted to: Community Colleges only.

# FDMA 2510. Introduction to Sound Design for Film 3 Credits (3)

This couse is an introduction to the principles, techniques and applications of sound design and film scoring. Students learn how sound affects storytelling in a film, examine the role of sound from the script to screen, and the professional process of creating a soundtrack. Students learn how to use sound equipment in a production environment and execute basic techniques used to develop a soundtrack. Crosslisted with: FDMA 1415.

**Prerequisite(s)/Corequisite(s):** FDMA 2382. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

# FDMA 2520. Introduction to Cinematography 3 Credits (3)

The Director of Photography (or Cinematographer), in close collaboration with the Director and Production Designer, helps determine the look of a film. This course is designed to intorduce students to the technical and aesthetic fundamentals of creating, developing, and collaborating on the visual elements of storytelling, using camera framing, lensing, and lighting fundamentals such as shadows, light and color. May be repeated up to 6 credits. only. Prerequisite(s)/Corequisite(s): FDMA 2382 (Las Cruces Campus) or FDMA 1210 (Community College Campus(es)

# FDMA 2530. Introduction to 3D Modeling 3 Credits (3)

This course will introduce 3D modeling methods and current practices. Students will learn preliminary and detailed modeling techniques using industry standard software. Methods will emphasize formal and functional aspects of modeling as they apply to mechanical, organic, and sculpted topology for application in animation, games, and information media. May be repeated for a maximum of 6 credits.

### FDMA 2535. Digital Illustration

#### 3 Credits (3)

Introductory course examining traditional artistic expressions and translating visual art experiences into a digital art medium to enhance visual storytelling. Students acquire basic principles of drawing and painting through hands-on experience manipulating tonal value, composition, form development, light and shadow, color theory, rendering realism, and graphic design. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

#### FDMA 2570. Creative Media Studio 3 Credits (2+2P)

A studio environment where students specialize in creating film-festival quality and portfolio-ready projects under the supervision of faculty. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1210 and FDMA 1220 or FDMA 2530.

### FDMA 2710. Beginning 2-D Animation 3 Credits (3)

Students will learn the basics of digital 2D animation by working through a variety of exercises, creating an original storyboard, and animating five or more shots utilizing industry standard software. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

# FDMA 2715. Special Effects 3 Credits (2+4P)

Creating advanced virtual special effects for both rigid and soft bodies. Using MEL, dynamic principles, mixing nodes, and advanced particle systems. How to drive particles over surfaces, add texture to flow, create surface tensions, and use collision events to drive texture. Study of integrating computer-generated images with real-life video and audio. **Prerequisite(s):** FDMA 2530 or FDMA 2765.

#### FDMA 2720. 3-D Animation

#### 3 Credits (3)

Overview of the essentials and principles of 3D animation; creative methods for using industry standard tools to produce the illusion of movement for storytelling. Topics include, keyframe and curve animation, kinematics, cycle animation, camera animation, deformers, and constraints.

Prerequisite(s): FDMA 1510, FDMA 2710 or consent of instructor.

# FDMA 2725. Rigging for 3D Animation 3 Credits (3)

This course will introduce principles and practices of current 3D animation rigging. Students will develop fundamental methods necessary to create character rigs. Students will learn aesthetic, technical, and optimization concepts as they apply to organic and mechanical designs. Topics will include: hierarchies, constraints, deformation rigging, skeleton creation, skinning, forward and inverse kinematics, controls, body and facial rigging. Restricted to: DFM, ANVE majors. **Prerequisite(s):** FDMA 1510.

### FDMA 2730. Advanced Character Animation 3 Credits (2+2P)

Focus on complex rigging techniques as well as utilizing advanced animation functions to blend multiple animations into complex animations. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 2530.

# FDMA 2735. Advanced 3D Animation Workshop A 3 Credits (2+4P)

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits. Consent of instructor required. **Corequisite(s):** FDMA 2740.

#### FDMA 2740. Advanced 3D Animation Workshop B 3 Credits (2+4P)

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits. Consent of instructor is required. **Corequisite(s):** FDMA 2735.

### FDMA 2745. Light, Shade, Render

#### 3 Credits (3)

This course will explore the theory and practice of 3D lighting and rendering methodologies. Techniques covered will implement cameras, lighting sources, textures, surface-mapping and algorithmic rendering to produce stylized and photo realistic images. Topics covered will include direct and indirect lighting, shaders that simulate physical substances and effects, rendering multiple passes and simulating physical lens effects. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

Prerequisite(s): FDMA 1510, FDMA 2530, or Consent of Instructor.

#### FDMA 2750. Digital Sculpting

#### 3 Credits (3)

Introduce students to the 3D Sculpting programs which are the industry standard sculpting programs. Students will learn how to create complex high polygon sculpts and normal maps and transfer the models into 3D studio Max and Autodesk Maya. May be repeated up to 6 credits. Restricted to: Community Colleges only. **Prerequisite(s):** FDMA 2530.

### FDMA 2755. Drawing for Animation

#### 3 Credits (3)

Introductory study of the human and animal form in relation to animation. Students learn fundamentals and exaggeration of the figure, as related to proportion, rhythm, mechanics, and motion. Areas of focus are: basic form, proportion, shape, contour, gesture, anatomy, portraiture, perspective, clothing effects and drawing from observation. Restricted to: CMT,DFM,ANVE majors.

#### FDMA 2770. Critical Game Studies

#### 3 Credits (2+2P)

Focus on creating a complete design document utilizing techniques and standards used in the industry today. May be repeated for up to 6 credits. Restricted to: Community Colleges only.

### FDMA 2775. Game Tools and Techniques 3 Credits (2+2P)

Focus on the different engines and gaming technologies that power the games of today. May be repeated for a maximum of 6 credits. **Prerequisite(s):** FDMA 2770.

#### FDMA 2785. Level Design Concepts

#### 3 Credits (2+2P)

Focus on the design and creation of video game levels. Dealing with the challenges and pitfalls of different video game genres. May be repeated for a maximum of 6 credits. Prerequisite(s): FDMA 2770

### FDMA 2993. Workshops (Advanced Photogrophy-Subtitle) 1 Credit (1)

This is a series of 1-credit workshops offering specialized and intense advanced skill training and upgrading applications of photography for commercial purposes and training in photographic skills and styles presented by a variety of professional lecturers. May be repeated up to 7 credits. Restricted to Community Colleges only. **Prerequisite(s):** FDMA 1545.

### FDMA 2994. Portfolio Design & Development

### 1-3 Credits

Personalized design and creation of the student's professional portfolio including hard-copy, demo reel, and online. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

### FDMA 2995. Film Crew Cooperative Experience 3-6 Credits (3-6)

Industry production experience in specific craft areas for film crew technicians who have successfully completed two semesters of FTTP. Restricted to: Dona Ana campus, Carlsbad campus. **Prerequisite(s):** FDMA 2125.

### FDMA 2996. Special Topics

#### 1-4 Credits

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits.

#### FDMA 2997. Independent Study

#### 1-3 Credits

Individual studies directed by consenting faculty with prior approval of department head. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Minimum GPA of 3.0 and sophomore standing.

#### FDMA 2998. Internship

#### 1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 9 credits. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. Consent of instructor required.

# **FIRE-FIRE INVESTIGATION (FIRE)**

### FIRE 101. Firefighter I

### 8 Credits (6+6P)

This course will train the student to the Firefighter I level as outlined in NFPA 1001, Standard for Firefighter Professional Qualifications. Firefighter I certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 8 credits. Consent of Instructor required. **Prerequisite(s)/Corequisite(s)**: OEEM 103 and FIRE 115. Restricted to

Community Colleges campuses only.

### FIRE 102. Fire Fighter I and II

### 12 Credits (12)

This course will train the student as outlined in NFPA 1001, Fire Fighter Professional Qualifications. Firefighter I & II Certification issued through the New Mexico Firefighter's Training Academy (NMFTA) upon successful completion [International Fire Service Accreditation Congress (IFSAC) & Pro Board accredited]. Consent of Instructor required.

**Prerequisite(s)/Corequisite(s):** FIRE 115, FIRE 252, OEEM 103. Restricted to Dona Ana campus only.

#### FIRE 104. Firefighter II 8 Credits (6+6P)

This course will train the student to the Firefighter II level as outlined in NFPA 1001, Standard for Firefighter Professional Qualifications. Firefighter II certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 8 credits. Consent of Instructor required. **Prerequisite(s)/Corequisite(s):** FIRE 252. Prerequisite(s): FIRE 101. Restricted to Community Colleges campuses only.

### FIRE 112. Principles of Emergency Services 3 Credits (3)

This course provides an overview to fire protection and emergency services including career opportunities in fire protection and related fields. The organization and function of public and private fire protection services is studied including how fire departments fit as part of local government. An overview of laws and regulations affecting the fire service is explored along with specific fire protection functions and responsibilities including basic fire chemistry and physics, introduction to fire strategy and tactics and life safety initiatives. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### FIRE 114. Fire Behavior and Combustion

#### 3 Credits (3)

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. Restricted to: Community colleges only.

### FIRE 115. Hazardous Materials Awareness and Operations 3 Credits (3)

This course will train the student to the Hazardous Materials Awareness and Operations level as outlined in NFPA 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents and OSHA 29 CFR 1910.120. Hazardous Materials Awareness and Operations certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

# FIRE 120. Fire Protection Hydraulics and Water Supply 3 Credits (3)

This course will train students on skill requirements for becoming a safe and effective fire apparatus driver/operator. The focus will be on pump operation, construction, testing, and mathematical calculation required for effective pump operation and fire control. Responsibilities of the driver/operator will be taught and assessed consistent with applicable NFPA standards and the New Mexico Firefighters' Training Academy (NMFTA) guidelines. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the NMFTA. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s)/Corequisite(s): FIRE 128.

### FIRE 126. Fire Prevention

#### 3 Credits (3)

This course will educate students about the principles and techniques of fire prevention and life-safety inspection and code compliance in accordance to NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner, Level I. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the New Mexico Firefighters' Training Academy (NMFTA). Restricted to Community Colleges campuses only.

### FIRE 128. Apparatus and Equipment 2 Credits (2)

The course will train students on attitude and skill requirements for becoming a safe and effective fire apparatus driver/operator. The focus will be on apparatus inspection, operation, maintenance, and specification. Responsibilities of the driver/operator will be taught and assessed consistent with applicable NFPA standards and the New Mexico Firefighters' Training Academy (NMFTA) guidelines. Students pursuing certification must posses a current and valid New Mexico driver's license. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the NMFTA. Restricted to Community Colleges campuses only.

### FIRE 130. Principles of Fire and Emergency Services Safety and Survival 3 Credits (3)

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. Consent of instructor required. Restricted to: Community colleges only.

#### FIRE 200. Special Topics 1-12 Credits (1-12)

Specific subjects to be announced in the Schedule of Classes. Course may be repeated for credit as topics change. May be repeated up to 12 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

### FIRE 201. Independent Study

### 1-3 Credits

Research on an approved topic to meet graduation requirements. Meets or exceeds NFPA standards. May be repeated for total of 9 credits. **Prerequisite:** consent of instructor.

### FIRE 202. Wildland Fire Control

### 1-3 Credits

Focuses on factors affecting wildland fire control and prevention, fire behavior, control techniques, command structure and other operations including Standards for Survival I-100, S-130 and S-190 Meets or exceeds NWCG Training Curriculum and NFPA 1051 standards. Restricted to: Community Colleges Only.

# FIRE 203. Fire and Emergency Services Administration 3 Credits (3)

This course will provide students entry-level training in company operations and administration at the first-line supervisory level. The student will learn how to effectively manage human resources and community/public relations. Students will learn about fire department organization and administration; including budgets, reports, and planning. Students will learn the process involved in fire inspection, investigation, public education, emergency service delivery, and safety, per NFPA Standard 1021, Fire Officer Professional Qualifications. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### FIRE 210. Building Construction for Fire Protection 3 Credits (3)

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. Restricted to: Community colleges only.

#### FIRE 220. Cooperative Experience I

### 1-3 Credits

Supervised cooperative work program. Student is employed in an approved occupation and rated by the employer and instructor. May be repeated for a maximum of 6 credits. Graded S/U. **Prerequisite:** consent of instructor.

### FIRE 221. Cooperative Experience II 3 Credits (3)

Apply advanced firefighting knowledge and skills while working with fire protection agencies. Meets or exceeds NFPA standards. Consent of instructor required. Graded: S/U. Restricted to: Community Colleges only. **Prerequisite(s):** FIRE 220.

### FIRE 223. Fire Investigations I

#### 3 Credits (3)

This course meets the requirements set forth in NFPA 1033 Professional Qualifications for Fire Investigator. This course will give a comprehensive understanding of the principles of fire investigation, scene examination, documentation, evidence collection/preservation, interview techniques, and post-incident investigations. Student who meet all course requirements are eligible for International Fire Service Accreditation Congress (IFSAC) certification through New Mexico Firefighters' Training Academy (NMFTA). Restricted to Community Colleges campuses only.

### FIRE 224. Strategy and Tactics

### 3 Credits (3)

Provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment and extinguishing agents on the fire ground. Covers the development of systematic action plans for emergency situations. Includes recognizing and prioritizing emergency scene needs and developing related strategies, tactics and contingencies. Educates students on how resources should be deployed to implement those plans. Restricted to Community Colleges campuses only.

### FIRE 225. Fire Protection Systems 3 Credits (3)

This course provides information relating to the features and design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. Restricted to: Community colleges only.

### FIRE 230. Fire Service Instructor

### 3 Credits (3)

Provides the instructor candidate with methods and techniques of instruction including oral communications, preparing lesson plans, writing performance objectives, use of audio and other training aids, and the selection, evaluation and preparation of performance tests. Meets and exceeds NFPA 1041 Level I standards. Restricted to: Community Colleges only.

### FIRE 232. Firefighter Internship

### 3 Credits (3)

Application of knowledge, skills and abilities in a fire service department, as a firefighter intern and integrated member of a fire affiliated agency. Restricted to majors.

**Prerequisites:** FIRE 101, FIRE 102, FIRE 115, FIRE 202 and EMT-B and consent of instructor.

### FIRE 233. Practical Approach to Terrorism 3 Credits (3)

Gives responder an overall safety approach in recognizing and responding to incidents involving terrorism. Presents an overview in types of harm, explosive weapons, chemical weapons, biological weapons and radiological weapons. Restricted to: Community Colleges only. Crosslisted with: LAWE 233

### FIRE 252. Vehicle Extrication 2 Credits (1+2P)

This course will train the student to the Vehicle & Machinery Extrication level I as outlined in NFPA 1006, Standard for Technical Rescuer Professional Qualifications. Vehicle & Machinery Extrication certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

### **FREN-FRENCH (FREN)**

### FREN 1110. French I

#### 4 Credits (4)

Intended for students with no previous exposure to French, this course develops basic listening, speaking, reading, and writing skills aiming toward the ACTFL novice-high level. This is an introductory course designed to teach the student to communicate in French in everyday situations and to develop an understanding of French and Francophone cultures through the identification of cultural products and practices, of cultural perspectives, and the ability to function at a survival level in an authentic cultural content. This course will also develop the student's sense of personal and social responsibility through the identification of social issues.

### FREN 1120. French II

### 4 Credits (4)

A continuation of French 1,students will develop a broader foundation in skills gained during the first semester, including understanding, speaking, reading and writing French aiming toward the ACTFL intermediate-low level. This course is designed to increase student fluency in French as applied to everyday situations. Students will also learn to recognize and understand various French and Francophone products,practices, and perspectives, identifying common cultural patterns, describing basic cultural viewpoints, and further developing their sense of personal and social responsibility through the investigation of cultural issues. **Prerequisite(s):** C or better in FREN 1110.

### FREN 2110. French III

### 3 Credits (3)

In this third semester course, students will continue to develop a broader foundation in skills gained during the first year, including understanding, speaking, reading and writing French aiming toward the ACTFL intermediate-mid level. This course is designed to teach the student to communicate in a more sustained way in areas of personal interest and in everyday situations. Students will engage in and analyze various French and Francophone products, practices, and perspectives, as well as continue to develop their sense of personal and social responsibility through comparison and contrast of cultural perspectives. **Prerequisite(s):** C or better in FREN 1120.

#### FREN 2120. French IV 3 Credits (3)

In this fourth semester course, students will continue to broaden and refine skills gained during previous semesters, including understanding, speaking, reading and writing French aiming at the ACTFL intermediate-high level. This course is designed to teach the student to communicate in a more sustained way in situations that go beyond the everyday. Students will evaluate various French and Francophone products, practices, and create ways to demonstrate their sense of personal and social responsibility through participation in cultural interaction.

Prerequisite(s): C or better in FREN 2110.

# FSTE-FOOD SCIENCE & TECHNOLOGY (FSTE)

### FSTE 1110G. Introduction to Food Science and Technology 4 Credits (3+2P)

An introductory course in the scientific study of the nature and composition of foods and their behavior during all aspects of their conversion from raw materials to consumer food products.

### FSTE 1120. ACES in the Hole Foods I

### 4 Credits (4)

Food production activities related to operation of ACES in the Hole Foods, a student-run food company that will give FSTE majors hands-on experience in all aspects of developing, producing and marketing food products Restricted to Las Cruces campus only.

**Prerequisite(s):** Students enrolled in this class must possess A Food Handler Card.

### FSTE 2110G. Food Science I

### 4 Credits (3+2P)

The scientific study of the principles involved in the preparation and evaluation of foods. May be repeated up to 4 credits.

### FSTE 2120. ACES in the Hole Foods II

### 4 Credits (8P)

Food production activities related to operation of ACES in the Hole Foods, a student-run food company that will give FSTE majors hands-on experience in all aspects of developing, producing and marketing food products. May be repeated up to 4 credits.

Prerequisite(s): FSTE 1120 and Have a Food Handler Card.

# FSTE 2130G. Survey of Food and Agricultural Issues 3 Credits (3)

Survey of food and agricultural issues, including: geography of food production and consumption; human-agricultural-natural resource relations; agriculture in the United States and abroad; modern agribusiness; food safety; food, agriculture, and natural resources policy; ethical questions; role and impact of technology. Crosslisted with AEEC 2130G.

### FSTE 2996. Special Topics

### 1-4 Credits

Specific topics and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

# FWCE-FISH,WILDLF,CONSERV ECOL (FWCE)

# FWCE 1110G. Introduction to Natural Resources Management 4 Credits (3+2P)

This class covers historical and current issues affecting the management of renewable natural resources with an emphasis on water, soil, rangeland, forest, fish, and wildlife resources. An emphasis is placed on the scientific method and critical thinking. In the laboratory students collect and analyze field data on topics covered above and write up each unit as a laboratory report.

### FWCE 1120. Contemporary Issues in Wildlife and Natural Resources Management

### 3 Credits (3)

Ecological, socioeconomic, and political issues surrounding the management of our natural resources with an emphasis on fish and wildlife resources.

# FWCE 2110. Principles of Fish and Wildlife Management 3 Credits (3)

Basic principles of fish and wildlife management including history, ecology, economics, and policy. Emphasis on wildlife and fisheries. Uses an ecosystem approach integrating living and nonliving resources. **Prerequisite(s):** FWCE 1110G.

# FYEX-FIRST YEAR EXPERIENCE

### FYEX 1110. First-year Seminar

### 1-3 Credits

This course is designed to help students achieve greater success in college and in life. Students will learn many proven strategies for creating greater academic, professional, and personal success. Topics may include career exploration, time management, study and test-taking strategies to adapt to different learning environments, interpersonal relationships, wellness management, financial literacy, and campus and community resources.

### FYEX 1112. The Freshman Year Experience

### 3 Credits (3)

An introduction to the university and its resources; emphasis on development of academic and personal skills that enable freshmen to become successful learners. Restricted to: Main campus only. **Prerequisite(s):** Freshman Standing Only.

### FYEX 1116. Managing Your Money

### 1 Credit (1)

Principles and strategies for effective money management. Includes financial goal setting, both short and long term. Explores the relationship between career and income earning potential. Explores issues of credit and debt management and prevention of identity theft.

### FYEX 1117. Financial Literacy Money Matters 2 Credits (2)

This course will cover a variety of financial literacy topics ranging from budgeting to student loan repayment. This course is designed to assist students in becoming more financially literate. Restricted to Las Cruces campus only.

### FYEX 1130. Academic Skills for Mathematics

### 1-3 Credits (1-3)

Emphasis on study skills for success in math, up to the calculus level, tailored to meet individual student needs. Topics include test preparation strategies, efficient time management and practice methods, and introduction to and practice with learning software. Consent of instructor required.

#### FYEX 1131. Personal Learning Skills I

#### 1-3 Credits

Individualized programs for self-improvement in skill areas necessary for academic success in the university environment. Each course to bear an appropriate subtitle. May be repeated up to 3 credits. Graded S/U.

### FYEX 1132. Academic and Personal Effectiveness

#### 2 Credits (2)

Learn academic self-analysis skills through the application of study and learning techniques to current course demands. Exposure to a variety of topics which enhance university and life-long learning.

### FYEX 1133. Academic Reading and Study Skills

#### 1-4 Credits

Introduction to and practice with strategies for effective reading and studying at the college level. Provides laboratory.

#### FYEX 1134. Speed Reading

#### 1 Credit (1)

Introduction to strategies and techniques for increasing reading rate and comprehension related to academic areas.

#### FYEX 1140. Career Exploration

#### 1 Credit (1)

Survey of careers possible with community college associate degrees. Information on how to make a career choice.

### FYEX 1141. Career Explorations and Planning

### 1 Credit (1)

This course is designed to increase the likelihood that individuals will successfully navigate the challenges they face when making college major and related career choices. Restricted to Las Cruces campus only.

### FYEX 1160. Tutorial

#### 1-3 Credits

Development of specific skills required for college courses, such as notetaking, listening, and test-taking. To be taken in conjunction with a regular designated college course.

### FYEX 1170. NMSU Gospel Choir

### 1 Credit (1)

Students will gain performance experience and exposure to urban contemporary gospel music. Open to all majors. May be taken for unlimited credit. Restricted to: Main campus only.

### FYEX 1995. Preparing for Cooperative Education & Internship 1 Credit (1)

The Cooperative Education Course provides students with a comprehensive overview of career-related topics designed to assist with securing Cooperative Education and Internship employment. Students learn about philosophies and approaches to resumes, cover letters, interviewing, job searching, networking, and professionalism. A primary focus of the course is on experiential learning where students have opportunities to practice and implement course concepts including interviewing, networking, job searching, and document creation. In addition to exploring topics related to Cooperative Education and Internship, the course is designed to provide students with tools and strategies for successfully navigating the transition from student to employee. Graded: S/U Grading (S/U, Audit). Restricted to Las Cruces campus only.

### FYEX 1996. Special Topics

#### 1-4 Credits

Covers specific study skills and critical thinking topics. Specific sub-titles to be listed in the Schedule of Classes. May be repeated for a maximum of 8 credits.

#### FYEX 2111. Critical Thinking Skills 3 Credits (3)

Introduction to critical thinking processes. Develops higher order thinking necessary to evaluate clearly, logically, and accurately one s academic and life experiences. Practical emphases on assertive thinking and perspectives. Prerequisite(s): CCDE 110 N

### FYEX 2994. Prior Learning: Professional Portfolio 1-6 Credits

Creating a portfolio that outlines professional and educational experiences. Life skills and education learned through workplace training and non-traditional education experiences will be evaluated for consideration of awarding college credit. Students will draft a life history paper, prepare a professional resume, assemble supporting documentation and evidence in support of their petition to receive college credit for prior learning. Culminating activities will include an oral presentation of the portfolio contents. Graded S/U. **Prerequisite(s):** CCDE 110 N or equivalent.

# **GENE-GENETICS (GENE)**

### GENE 1110. Experimental Systems in Genetics

### 1 Credit (1)

Survey of molecular, biochemical, organismal, and computer science based approaches to investigate how genes determine important traits. Historical development and topics of current interest will be discussed.

# **GEOG-GEOGRAPHY (GEOG)**

### GEOG 1110G. Physical Geography

#### 4 Credits (3+3P)

This course introduces the physical elements of world geography through the study of climate and weather, vegetation, soils, plate tectonics, and the various types of landforms as well as the environmental cycles and the distributions of these components and their significance to humans.

### GEOG 1120G. World Regional Geography

### 3 Credits (3)

Overview of the physical geography, natural resources, cultural landscapes, and current problems of the world's major regions. Students will also examine current events at a variety of geographic scales.

### GEOG 1130G. Human Geography

### 3 Credits (3)

This course serves as an introduction to the study of human geography. Human geography examines the dynamic and often complex

relationships that exist between people as members of particular cultural groups and the geographical 'spaces' and 'places' in which they exist over time and the world today.

### GEOG 2130. Map Use and Analysis

#### 3 Credits (2+3P)

Exploration of the cartographic medium. Development of critical map analysis and interpretation skills, and map literacy. Comprised of traditional lecture, labs, and map use projects.

#### **GEOG 2996. Special Topics**

#### 1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

### **GEOL-GEOLOGY (GEOL)**

#### GEOL 1110G. Physical Geology 4 Credits (3+3P)

Physical Geology is an introduction to our dynamic Earth introducing students to the materials that make up Earth (rocks and minerals) and the processes that create and modify the features of our planet. The course will help students learn how mountains are formed, how volcanoes erupt, where earthquakes occur, and how water, wind, and ice can shape landscapes. Students will also develop a basic understanding of the ways humans have altered the planet including our impact on natural resources and global climate change.

### GEOL 1150. Introduction to Rocks and Minerals 3 Credits (2+3P)

This course is an introduction to the characteristics and the formation of the three main types of rocks, the rock-forming minerals, and important ore minerals. An outline of Plate Tectonics will give students the basis to understand how many of these rocks and minerals form. In laboratory exercises, students will gain practice in describing and identifying hand-specimens of the main types of rocks and minerals. **Prerequisite(s)/Corequisite(s):** GEOL 1110G.

# GEOL 2120. Introduction to Oceanography 4 Credits (3+3P)

This course covers aspects of geology, chemistry, physics, climatology, environmental science, and biology as they apply to the oceans. Oceanography explores the ocean in the Earth system with special emphasis on the flow and transformation of weather and energy into and out of the ocean, the physical and chemical properties of seawater, ocean circulation, marine life and its adaptations, interactions between the ocean and the other components of the Earth system, and the human/ societal impacts on and response to those interactions. This course provides the foundation needed for students to intelligently participate in important societal discussions that involve environmental issues. Community Colleges only. Consent of Instructor required

### GEOL 2130. Introduction to Meteorology 4 Credits (3+3P)

Introduction to Earth's atmosphere and the dynamic world of weather as it happens. Working with current meteorological data delivered via the Internet and coordinated with learning investigations keyed to the current weather; and via study of select archives.

#### GEOL 2996. Special Topics 1-3 Credits

Specific subjects to be announced in the Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits.

## **GNDR-WOMEN'S STUDIES**

### GNDR 2110G. Introduction to Women, Gender, and Sexuality Studies 3 Credits (3)

This course introduces students to key concepts, debates, and analytical tools informing Women's, Gender, and Sexuality Studies. As an interdisciplinary field of study, Women's, Gender, and Sexuality Studies employs academic perspectives from a range of disciplines and theoretical approaches. It also incorporates lived experience and social location into its object of analysis. Though content will vary according to the expertise and focus of the instructor, this course will develop tools through readings and assignments that critically analyze how gender and sexuality are shaped by different networks of power and social relations and demonstrate how the intersections of race, class, disability, national status, and other categories identity and difference are central to their understanding and deployment. In addition to feminist thought, areas of focus might include gender and sexuality in relation to social, cultural, political, creative, economic, or scientific discourses. This class is recommended for those with a general interest in the topic area as well as for those seeking a foundational course for further study.

### GNDR 2120G. Representing Women Across Cultures 3 Credits (3)

Historical and critical examination of women's contributions to the humanities, with emphasis on the issues of representation that have contributed to exclusion and marginalization of women and their achievements.

### **GRMN-GERMAN**

### GRMN 1110. German I

#### 4 Credits (4)

Intended for students with no previous exposure to German, this course develops basic listening, speaking, reading, and writing skills aiming toward the ACTFL novice-mid level. This is an introductory course designed to teach the student to communicate in German in everyday situations and to develop an understanding of German cultures through the identification of cultural products and practices, of cultural perspectives, and the ability to function at a survival level in an authentic cultural content. This course will also develop the student's sense of personal and social responsibility through the identification of social issues.

#### GRMN 1120. German II

#### 4 Credits (4)

A continuation of German 1, students will develop a broader foundation in skills gained during the first semester, including understanding, speaking, reading and writing German aiming toward the ACTFL novicehigh level. This course is designed to increase student fluency in German as applied to everyday situations. Students will also learn to recognize and understand various German products, practices, and perspectives, identifying common cultural patterns, describing basic cultural viewpoints, and further developing their sense of personal and social responsibility through the investigation of cultural issues. **Prerequisite(s):** C or better in GRMN 1110.

### GRMN 2110. German III

### 3 Credits (3)

In this third semester course, students will continue to develop a broader foundation in skills gained during the first two semesters, including understanding, speaking, reading and writing German aiming toward the ACTFL intermediate-low level. This course is designed to teach the student to communicate in a more sustained way in areas of personal interest and in everyday situations. Students will engage in and analyze various German products, practices, and perspectives, as well as continue to develop their sense of personal and social responsibility through comparison and contrast of cultural perspectives. **Prerequisite(s):** C or better in GRMN 1120.

#### GRMN 2120. German IV

#### 3 Credits (3)

In this fourth semester course, students will continue to broaden and refine skills gained during previous semesters, including understanding, speaking, reading and writing German aiming at the ACTFL intermediatemid level. This course is designed to teach the student to communicate in a more sustained way in situations that go beyond the everyday. Students will evaluate various German products, practices, and create ways to demonstrate their sense of personal and social responsibility through participation in cultural interaction. **Prerequisite(s):** C or better in GRMN 2110.

### **HIST-HISTORY (HIST)**

#### HIST 1105G. Making History

#### 3 Credits (3)

General introduction to history: how historians carry out research and develop interpretations about the past.

#### HIST 1110G. United States History I

### 3 Credits (3)

The primary objective of this course is to serve as an introduction to the history of the United States from the pre-colonial period to the immediate aftermath of the Civil War. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of the United States within the context of world societies.

#### HIST 1120G. United States History II 3 Credits (3)

The primary objective of this course is to serve as an introduction to the history of the United States from reconstruction to the present. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of the United States within the context of world societies.

#### HIST 1130G. World History I

#### 3 Credits (3)

The primary objective of this course is to serve as an introduction to global history from the 16th century to the present. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of world societies.

#### HIST 1140G. World History II 3 Credits (3)

The primary objective of this course is to serve as an introduction to global history from ancient times to the 16th century. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of world societies.

#### HIST 1150G. Western Civilization I 3 Credits (3)

This course is a chronological treatment of the history of the western world from ancient times to the early modern era. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of western civilization within the context of world societies. Selective attention will be given to 'non-western' civilizations which impact and influence the development of 'western' civilization.

#### HIST 1160G. Western Civilization II 3 Credits (3)

This course is a chronological treatment of the history of the western world from the early modern era to the present. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of western civilization within the context of world societies. Selective attention will be given to 'non-western' civilizations which impact and influence the development of 'western' civilization.

### HIST 1170. Survey of Early Latin America 3 Credits (3)

The primary objective of this course is to serve as a survey of the history of Latin America from pre-Columbian times through independence. This course will explore the contributions of Indigenous peoples, Africans, and Europeans to the creation of Latin America's diverse societies. The elements of this course are designed to inform students on the major events and trends that are essential to the understanding of the history of Latin America within the context of world societies.

### HIST 1180. Survey of Modern Latin America 3 Credits (3)

The primary objective of this course is to serve as a survey of the history of Latin America from independence to the present. This course will explore the contributions of Indigenous peoples, Africans, and Europeans to the creation of Latin America's diverse societies. The elements of this course are designed to inform students on the major events and trends that are essential to the understanding of the history of Latin America within the context of world societies.

### HIST 2110. Survey of New Mexico History 3 Credits (3)

The primary objective of this course is to serve as an introduction to the history of New Mexico from the pre- Columbian times to the present day. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of New Mexico within the context of the Americas.

#### HIST 2245G. Islamic Civilizations to 1800

**3 Credits (3)** History of Islamic civilizations to 1800.

#### HIST 2246G. Islamic Civilizations since 1800 3 Credits (3)

History of Islamic civilizations since 1800.

#### HIST 2250G. East Asia to 1600 3 Credits (3)

History of China, Korea, Vietnam, and Japan from earliest times through the sixteenth century. Emphasis on cultural and political developments and their social and economic contexts, and the interaction between East Asian societies.

#### HIST 2251G. East Asia since 1600 3 Credits (3)

History of China, Korea, Vietnam, and Japan from the sixteenth through the twentieth centuries. Emphasis on internal development of each country, as well as the social and political impact of Western Imperialism, and the emergence of each country's unique version of modern society.

### HIST 2996. Special Topics

### 1-3 Credits

Specific subjects to be announced in the Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits.

# **HIT-HEALTH INFO TECHNOLOGY (HIT)**

### HIT 110. Electronic Health Records

### 3 Credits (3)

This course will train students on skill requirements for becoming a safe and effective fire apparatus driver/operator. The focus will be on pump operation, construction, testing, and mathematical calculation required for effective pump operation and fire control. Responsibilities of the driver/operator will be taught and assessed consistent with applicable NFPA standards and the New Mexico Firefighters' Training Academy (NMFTA) guidelines. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the NMFTA. Consent of Instructor required. Restricted to Community Colleges campuses **Prerequisite(s)/Corequisite(s):** FIRE 128.

### HIT 120. Health Information Introduction to Pharmacology 3 Credits (3)

Introduction to the principles of pharmacology, including drug terminology; drug origins, forms, and actions; routes of administration; as well as the use of generic name drugs, trade name drugs and categories of drugs to treat multiple and specific body systems. May be repeated up to 3 credits. Crosslisted with: NURS 120. Restricted to Community Colleges campuses only.

# HIT 130. Health Information Technology Anatomy & Physiology 3 Credits (3)

An introductory course in the basics of human structure and function. Body systems are examined as to how they relate to proper code selection and as part of the functioning of the body as a whole. Restricted to Community Colleges campuses only.

# HIT 140. Health Information Introduction to Pathophysiology 3 Credits (3)

Introduction to the nature of disease and its effect on body systems. Disease processes affecting the human body via an integrated approach to specific disease entities will be presented including a review of normal functions of the appropriate body systems. Diseases will be studied in relation to their etiology, pathology, physical signs and symptoms, diagnostic procedures, complications, treatment modalities and prognosis.

# HIT 150. Introduction to Medical Terminology 3 Credits (3)

The study and understanding of medical terminology as it relates to diseases, their causes and effects, and the terminology used in various medical specialties. Emphasis will be placed on learning the basic elements of medical words, appropriate spelling and use of medical terms, and use of medical abbreviations. May be repeated up to 3 credits. Crosslisted with: NURS 150, AHS 120 and BOT 150. Restricted to Community Colleges campuses only.

### HIT 158. Advanced Medical Terminology 3 Credits (3)

Builds upon the concepts covered in HIT 150 or AHS 120 providing greater understanding of how to properly use and apply medical terminology used in the various health fields. Medical terminology associated with the body system's anatomy and physiology, pathology, diagnostic and therapeutic procedures, pharmacology, and abbreviations will be emphasized. Restricted to Community Colleges campuses only. **Prerequisite(s):** HIT 150 or AHS 120.

### HIT 221. Internship I

### 3 Credits (3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. C- or better is required for this course. Consent of Instructor required. Restricted to: BOT,HIT majors. Restricted to Community Colleges campuses

### HIT 228. Medical Insurance Billing

### 3 Credits (3)

Comprehensive overview of the insurance specialist's roll and responsibilities. Concepts and applications that will assist the student in understanding the steps necessary for successfully completing the insurance claim filing and reimbursement processes for various insurance carriers, both private and government, will be emphasized. Restricted to Carlsbad campus only.

Prerequisite(s): HIT/NURS 150; BOT 208.

# HIT 240. Health Information Quality Management 3 Credits (3)

Introduction to basic concepts of quality improvement and performance improvement as they apply to health record systems and the health care industry. Quality assessment and improvement standards and requirements of licensing, accrediting fiscal and other regulatory agencies will be presented.

### HIT 248. Medical Coding I

### 3 Credits (2+2P)

Comprehensive overview of the fundamentals, coding conventions, and principles of selecting the most appropriate ICD-10-CM/PCS diagnostic and procedure codes. The most recent version of ICD-10-CM/PCS and an in depth study of current Official Coding Guidelines for coding and reporting will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 228.

### HIT 255. Special Topics

### 3 Credits (3)

Specific topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

### HIT 258. Medical Coding II

### 3 Credits (2+2P)

Continuation of Medical Coding I. Comprehensive overview of the coding and reporting guidelines, fundamentals, coding conventions, and principles of selecting the most appropriate CPT and HCPCS procedural codes for all medical specialties. The most recent version of CPT and a continued study of the ICD-10-CM/PCS coding conventions and principles will be emphasized. Designed as a medical coding capstone course. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 248.

### HIT 268. Health Information Systems

### 3 Credits (3)

Overview of health data management, work planning, and organization principles; an introduction to health care information systems; and review of the fundamentals of information systems for managerial, clinical support, and information systems.

### **HLED-HEALTH EDUCATION**

### HLED 1154. Lifeguarding

### 2 Credits (2)

Skills training for a nonsurf lifeguard. Course will include Standard First Aid and CPR certification. May be repeated up to 2 credits. Students must be able to Swim 500 yards, dive to 9-foot depth and retrieve a 10-pound brick, surface dive to 5 feet then swim underwater 15 yards, tread water one minute.

### **HMSV-HUMAN SERVICES**

### HMSV 2110. Case Management

#### 3 Credits (3)

This course introduces students to the concept of case management, how it is used in human services, and skills necessary to function effectively as case managers. The emphasis is on the client assessment process, service planning and delivery, and client advocacy. Topics introduced include observation, data collection, documentation, and reporting of client behaviors, identification and referral to appropriate services, monitoring, planning, and evaluation. This course provides student with basic knowledge and beginning case management skills. **Prerequisite(s):** PSYC 1110G and SOWK 2110G.

### **HNRS-HONORS**

### HNRS 1110. Journeys of Discovery

### 1 Credit (1)

Weekly conversations among students and a faculty member; organized around a particular subject and a small selection of readings. The seminars illuminate the many paths of discovery explored by the New Mexico State University faculty.

Prerequisite(s): Honors eligible.

### HNRS 2110G. The Present in the Past: Contemporary Issues and their Historical Roots

### 3 Credits (3)

This course will take today's concerns, trends, and customs and contextualize them in the past, explaining their historical origins and development. As an example, we will examine the history of celebrity and how celebrities -- from Lord Byron to the Kardashians' made an impact on their contemporaries and the broader society of their time. This reading- and writing-intensive course will help students develop skills related to critical thinking, logical argumentation, and written and oral communication.

#### HNRS 2111. Successful Fellowship Writing 1 Credit (1)

### Provides scholars with hands-on skills to complete proposals for scholarships and fellowships, such as the Truman, Rhodes, Marshall, Goldwater, Udall, and others. Other skills include how to write resumes, develop general research skills, and find grant and foundation sources. For freshmen and sophomores. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2114G. Music in Time and Space 3 Credits (3)

Introduction to all forms of Music. Through our auditory senses and intellectual faculties music is an ideal means for intelligent and humanistic examination of peoples and cultures, and for the enhancement of life. Types of music covered include classical, jazz, rock and roll, and world music. Music videos, live in-class performances, evening concerts, and lectures will be used as a basis for discussions and research. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

### HNRS 2115G. Encounters with Art

### 3 Credits (3)

A multicultural examination of the principles and philosophies of the visual arts and the ideas expressed through them. 5 or higher **Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

# HNRS 2116G. Earth, Time and Life 4 Credits (3+3P)

Covers how the earth's materials form, processes involved in changing the earth's configuration, and extent of people's dependence upon the earth's resources. Includes mineral and energy resources, development of landscapes, environmental problems, evolution of the earth and life forms. May be taken in place of GEOL 1110. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

# HNRS 2117G. The World of the Renaissance: Discovering the Modern 3 Credits (3)

An introduction to the literature and thought of Renaissance Europe. Humanism and the Reformation will be approached through the intensive study of major writers such as Petrarch, Machiavelli, Luther, Erasmus, Montaigne, and Shakespeare. Restricted to Las Cruces campus only. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2120G. Foundations of Western Culture 3 Credits (3)

Critical reading of seminal texts relating to the foundations of culture and values in Western civilization, from ancient Greece to about 1700. Focus on the development of concepts of nature, human nature, and the state. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2130G. Shakespeare on Film

#### 3 Credits (3)

How do Shakespeare's plays continue to speak to us through the medium of film? Written in a time of rapid social change,Shakespeare's plays invited audiences to think critically about the relationship between the self and others and to question conventions. Performances of Shakespeare have long been used to call out social injustice, from western anti-Semitism prior to World War II (The Merchant of Venice), to civil rights-era white supremacy in the US and apartheid in South African (Othello),and authoritarianism in the Arab Spring (Richard III). This course focuses on post-1980 Hollywood film versions of Shakespeare's plays and a few prior landmark adaptations around the world, examining how they use Shakespeare as a medium for debate and even a catalyst for social change.

# HNRS 2140G. Plato and the Discovery of Philosophy 3 Credits (3)

Examines arguments and theories found in the Platonic dialogues with a view to determining the nature and value of philosophy both from Plato's point of view and absolutely. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

# HNRS 2141G. Bamboo and Silk: The Fabric of Chinese Literature 3 Credits (3)

Introductory survey of traditional and modern Chinese prose and poetry in translation with emphasis on genre, theme, and social/historical context. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2145G. Celtic Literature 3 Credits (3)

This course provides an overview of the most important early literary works of the so-called Celtic nations, principally Ireland and Wales, from a literary and historical approach. This literature stems from the period 600-1200 and ends with the development of the Romances under influence from the French

### HNRS 2160G. New Testament as Literature 3 Credits (3)

Literature of the New Testament examined from a literary perspective. Emphasis on translation history of the New Testament, generic features of gospel, epistle and apocalypse, precedent literary models, problems of authorship, classification of New Testament texts. 5 or higher **Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2161G. Window of Humanity 3 Credits (3)

Anthropology is the most humanistic of the sciences, and the most scientific of the humanities. This course will use anthropological perspectives to examine the human experience from our earliest origins, through the experiences of contemporary societies. We will gain insights into the influence of both culture and biology on shaping our shared human universals, and on the many ways in which human groups are diverse. Restricted to Las Cruces campus only. 5 or higher **Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT

score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

# HNRS 2165. Humanities in the 21st Century 3 Credits (3)

An exploration of the humanities, of their intrinsic and extrinsic values, and of the skills and habits of mind they cultivate.

### HNRS 2170G. The Human Mind

### 3 Credits (3)

The primary course objective is to develop an appreciation of the variety and complexity of problems that are solved by the human mind. The course explores how problems are solved by a combined computational analysis (computational theory of mind), and evolutionary (evolution by natural selection) perspective. The mind is what the brain does (i.e. information processing) and the brain is a computational device that is a product of evolution by natural selection. Note that this is not a neuroscience course, we will be focusing on the mind (what the brain does) rather than on the brain. Restricted to Las Cruces campus only.

### HNRS 2171G. The Worlds of Arthur 3 Credits (3)

Arthurian texts and traditions from medieval chronicles to contemporary literature. Emphasis on both the continuities of the Arthurian tradition and the diversity of genres, media, and cultures that have given expression to the legend. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

# HNRS 2172G. Archaeology: Search for the Past 3 Credits (3)

A critical evaluation of various approaches to understanding prehistory and history. The methods and theories of legitimate archaeology are contrasted with fantastic claims that invoke extraterrestrials, global catastrophes, transoceanic voyages, and extra-sensory perception. May be repeated up to 3 credits. Restricted to Las Cruces campus only. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2173G. Middle Ages

### 3 Credits (3)

Intensive, interdisciplinary introduction to the thought and culture of medieval Europe. Core texts will include works by St. Augustine, Marie de France, and Dante, as well as anonymous works such as Sir Gawain and the Green Knight, all supplemented by study of medieval art, architecture, philosophy, and social history. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2174G. American Politics in a Changing World 3 Credits (3)

American politics and policies examined from a historical and global perspective. Philosophical underpinnings of American national government, the structure of government based on that philosophy, and the practical implications of both the philosophical and structural base. How American government influences and is influenced by the world community. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

# HNRS 2175G. Introduction to Communications Honors 3 Credits (3)

Study and practice of interpersonal, small group, and presentational skills essential to effective social, business, and professional interaction. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2176. Acting for Everyone

### 3 Credits (3)

To provide fundamental training in acting techniques, including stage voice and movement, improvisation, ensemble building, characterization, emotion exploration and basic performance analysis. The course will provide a correlation between theatre skills and everyday 'life' skills and seek to encourage an appreciation for the art of theatre.

### HNRS 2178G. Theatre: Beginnings to Broadway 3 Credits (3)

Intercultural and historical overview of live theatre production and performance, including history, literature and professionals. Students attend and report on stage productions. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

# HNRS 2180G. Citizen and State Great Political Issues 3 Credits (3)

The fundamental questions of politics: why and how political societies are organized, what values they express, and how well they satisfy those normative goals and the differing conceptions of citizenship, representation, and freedom. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

# HNRS 2185G. Democracies, Despots and Daily Life 3 Credits (3)

This course will offer students the chance to read firsthand accounts of ordinary citizens' lives under different political systems, from the earliest age to the present day. This reading- and writing-intensive course will help students develop skills related to critical thinking, logical argumentation, and written and oral communication.

#### HNRS 2190G. Claiming a Multiracial Past 3 Credits (3)

Survey of history of the United States in the nineteenth and twentieth centuries, with an emphasis on multicultural social and cultural history. Focus on understanding American history from the point of view of dispossessed, impoverished, and disenfranchised Americans who have fought to claim both their rights as Americans and American past. 5 or higher

**Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

### HNRS 2996. Special Topics

### 1-3 Credits (1-3)

Special course offerings, with unique titles listed in Schedule of Classes. May be repeated up to 6 credits.

# HORT-HORTICULTURE (HORT)

### HORT 1115G. Introductory Plant Science

### 4 Credits (3+2P)

Introduction to the physical, biological, and chemical principles underlying plant growth and development in managed ecosystems. In the laboratory portion of the class, students perform experiments demonstrating the principles covered in lecture. The course uses economic plants and agriculturally relevant ecosystems to demonstrate basic principles. Appropriate for nonscience majors. Same as AGRO 1110G.

#### HORT 2110. Ornamental Plants I 4 Credits (2+3P)

Covers identification, botanical characteristics, culture, and landscape uses of woody plants. Emphasis on deciduous trees, native shrubs, and evergreens.

### HORT 2120. Ornamental Plants II 4 Credits (2+3P)

Identification, botanical characteristics, culture, and landscape uses of woody plants. Emphasis on flowering trees, cacti, and members of the pea and rose families.

# HORT 2130. Floral Quality Evaluation and Design 2 Credits (1+2P)

Critical hands-on evaluation of the quality of cut and potted floral and tropical foliage crops, their specific merits and faults, and fundamentals of floral design.

### HORT 2160. Plant Propagation

### 3 Credits (2+2P)

Practical methods of propagating horticultural plants by seed, cuttings, layering, grafting, division and tissue culture. Examination of relevant physiological processes involved with successful plant propagation techniques. Same as AGRO 2160.

### HORT 2990. Floriculture Field Practicum

### 1 Credit (1)

Participation as team member in the National Intercollegiate Floral Quality Evaluation and Design Competition. Intensive week-long travel for competition, networking with industry, academia, and floriculture tours. May be repeated for a maximum of 3 credits.

Prerequisite(s): HORT 2130 or consent of instructor.

### HORT 2996. Special Topics

### 1-4 Credits

Specific subjects and credits as announced. Maximum of 4 credits per semester and a grand total of 9 credits. May be repeated up to 9 credits. Consent of Instructor required.

# HOST-HOSPITALITY AND TOURISM (HOST)

### HOST 155. Special Topics

1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

### HOST 201. Introduction to Hospitality Industry

### 3 Credits (3)

Overview of hospitality industry; organization and operation of lodging, food and beverage, and travel and tourism segments; focus on career opportunities and future trends of hospitality industry. Restricted to: Community College campuses only.

### HOST 202. Front Office Operations

### 3 Credits (3)

Hotel/motel front office procedures detailing flow of business, beginning with reservations and extending to the night audit process. Restricted to: Community College campuses only.

### HOST 203. Hospitality Operations Cost Control

### 3 Credits (3)

Management of Food & Beverage facilities using cost control techniques. Functional training in menu analysis and development with all phases of product flow through a Food & Beverage organization explored. Restricted to: Community Colleges only.

### HOST 204. Promotion of Hospitality Services 3 Credits (3)

Organization of hotel marketing functions; developing a marketing plan to sell the varied services of the hotel/motel property. Restricted to: Community College campuses only.

# HOST 205. Housekeeping, Maintenance, and Security 3 Credits (3)

Function of housekeeping departments, including personnel, sanitation, maintenance, and materials. A survey of security procedures to include guest protection and internal security of hotel/motel assets. Restricted to: Community College campuses only.

# HOST 206. Travel and Tourism Operations 3 Credits (3)

Transportation, wholesale and retail operations, attractions, the traveler, tourism development, and operational characteristics of tourism business. Restricted to: Community College campuses only.

### HOST 207. Customer Service for the Hospitality Industry 3 Credits (3)

Concepts of service and the customer, integrating the need for service quality, and the continuing efforts to maximize returns for the operation. Classic service styles as well as more modern service techniques are covered. Students gain in-depth managerial knowledge, planning skills, and hands-on techniques for consistently delivering quality and service in a variety of operations. Restricted to: Community College campuses only.

### HOST 208. Hospitality Supervision

### 3 Credits (3)

Strategies for directing, leading, managing change and resolving conflict. Prepares students to meet expectations of management, guests, employees, and governmental agencies. Restricted to: Community College campuses only.

# HOST 209. Managerial Accounting for Hospitality 3 Credits (3)

Prepares students to make effective business decisions based on financial report information; forecasting, budgeting, cost analysis. Restricted to: Community College campuses only. **Prerequisite(s):** BOT 120 or ACCT 2110.

### HOST 210. Catering and Banquet Operations 3 Credits (3)

Teaches the basics of catering and banquet operations, including computer coordination, planning, set up, service, and completion. Restricted to Community Colleges campuses only.

# HOST 214. Purchasing and Kitchen Management 3 Credits (3)

Technical purchasing concepts, product selection, and specifications. Safety and sanitation as they relate to food service establishments. Prepares student for work with HACCP programs. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** HOST 203.

# HOST 216. Event, Conference and Convention Operations 3 Credits (3)

The ability to successfully plan, organize, arrange, and execute special events is critical to the success of many hospitality organizations. This course gives the student a grounding in the skills necessary to achieve success in this area. A variety of events are discussed and the similarities and differences with conferences and conventions are explored. Students are taught to organize and plan events of varying type and durations. Sales, logistics, and organizing skills are emphasized. Restricted to: Community College campuses only.

# HOST 219. Safety, Security and Sanitation in Hospitality Operations 3 Credits (3)

It is the responsibility of the manager to provide appropriate security, sanitation, and safety precautions in hospitality operations. Preparation for internal and external disasters is an important task for the Hospitality Manager. This course uses the National Restaurant Association ServSafe¬ training material. Restricted to: Community College campuses only.

### HOST 220. Experiential Travel

### 1-3 Credits (1-3)

Course provides an opportunity for students to plan, prepare for and experience travel to destinations they might not otherwise have visited. Students experience local culture and peoples. May be repeated up to 9 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** HOST 201 or consent of instructor.

### HOST 221. Internship I

### 1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEHS,HOST majors.Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

#### HOST 222. Cooperative Experience II 3 Credits (3)

Continuation of HOST 221. Restricted to majors. Graded: S/U. Restricted to: Community College campuses only. Restricted to HOST majors. **Prerequisite(s):** HOST 221.

# HOST 239. Introduction to Hotel Management 3 Credits (3)

This course covers basic management functions in hotels, resorts, Boutique Hotels, Bed & Breakfast establishments, and other lodging operations. All aspects of the operation are covered including guest management, operations, and sales and marketing. Restricted to: Branch campuses only.

### HOST 255. Special Topics

### 3 Credits (3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

### HOST 298. Independent Study

### 1-3 Credits (1-3)

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated for a maximum of 3 credits. Restricted to: Community College campuses only.

### Prerequisite(s): Minimum 3.0 GPA and sophomore standing.

### HRTM-HOTEL/RESTRNT/TOURISM MGT (HRTM)

### HRTM 1110. Freshman Orientation

### 1 Credit (1)

Orientation to university life, including available resources and methods to promote success at NMSU. Open to all freshmen and transfer students. Graded S/U.

#### HRTM 1120. Introduction to Tourism

#### 3 Credits (3)

Survey of travel and tourism development and operating characteristics.

#### HRTM 1130. Introduction to Hospitality Management 3 Credits (3)

Overview of the major segments of the hospitality industry, with a focus on basic management principles.

### HRTM 2110. Safety, Sanitation and Health in the Hospitality Industry 1 Credit (1)

Addresses public health, HACCP, and food safety responsibilities in the hospitality industry. Sanitation certification test allows students to receive national ServSafe Food Protection Manager Certification. Restricted to Las Cruces campus only.

# HRTM 2120. Food Production and Service Fundamentals 3 Credits (1+4P)

Basic overview of food service systems including menu management, purchasing and production. The course includes basic principles of food fabrication and production. Topics include knife skills, culinary terminology, product identification, quality standards, nutritional cooking theory and application of food preparation techniques. The course includes laboratory aspects and demonstration of basic food production techniques, service styles, practices and procedures in food service operations including culinary math. This course provides students with an understanding of food service sanitation and culinary nutrition. Completion of a national certification examination is required. Students who have not completed HRTM 2110 before enrolling in the course must have proof of valid ServSafe Food Protection Manager certificate. Restricted to Las Cruces campus only. Prerequisite(s)/Corequisite(s): HRTM 2110

Prerequisite(s): HRTM 1130 or FSTE 2110G.

### HRTM 2130. Hotel Operations I

#### 3 Credits (3)

Analysis of hotel operations to include: guest services, reservations, reception, guest/city ledger and the night audit. May be repeated up to 3 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** HRTM 1130.

#### HRTM 235. Hotel Operations I 3 Credits (3)

Analysis of hotel operations to include: guest services, reservations, reception, guest/city ledger and the night audit. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

Prerequisite(s): HRTM 221.

### HRTM 2996. Special Topics

#### 1-4 Credits

Specific subjects and credits to be assigned on a semester basis for both lecture and laboratory assignments. May be repeated for a maximum of 4 credits.

Prerequisite: consent of instructor.

# HVAC-HEATING/AC/REFRIGERATION (HVAC)

### HVAC 100. EPA Clean Air Act: Section 608

#### 1 Credit (1)

Refrigerant certification preparation to include basics of refrigerant bearing equipment, ozone depletion and the new legislation, technician categories covered and the certification examination.

### HVAC 101. Fundamentals of Refrigeration 4 Credits (3+2P)

Refrigeration cycle and the various mechanical components. Use of special tools, equipment, and safety precautions.

#### HVAC 102. Fundamentals of Electricity 4 Credits (3+2P)

Introduction to electricity theory, OHM s Law, circuits, AC/DC, and practical applications.

### HVAC 103. Electrical and Mechanical Controls I 4 Credits (3+2P)

Applications of basic electrical and mechanical controls. Reading and drawing diagrams of simple refrigerating equipment. Safe use of testing equipment.

Prerequisites: HVAC 101 and HVAC 102, or consent of instructor.

### HVAC 110. Professional Development and Leadership 1 Credit (1)

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: HVAC majors. Graded: S/U Grading (S/ U, Audit). Restricted to: Community Colleges only.

#### HVAC 113. Job Shadowing

#### 1 Credit (1)

Course will expose students to actual HVAC/R field work and provide them knowledge of the expectations of field work as they shadow an HVAC/R technician. Consent of instructor required. Restricted to: Community colleges only.

#### HVAC 205. Commercial Refrigeration Systems

#### 4 Credits (3+2P)

Service and maintenance of commercial refrigeration equipment to include evacuation and charging procedures, electrical diagrams, and compressors and accessories.

Prerequisites: HVAC 103 or consent of instructor.

#### HVAC 207. Residential Air Conditioning Systems 4 Credits (3+2P)

Applications and types of equipment used in comfort cooling. Preventive maintenance, service, and repairs common to evaporative coolers and refrigerated air conditioning systems. Air properties and psychometrics. **Prerequisite:** HVAC 103 or consent of instructor.

### HVAC 209. Residential Heating Systems

### 4 Credits (3+2P)

Gas and electric systems used in comfort heating. Maintenance procedures, safety, troubleshooting, and servicing malfunctions in equipment.

Prerequisite: HVAC 103 or consent of instructor.

#### HVAC 210. Commercial Air Conditioning and Heating Systems 4 Credits (3+3P)

Covers troubleshooting mechanical and electrical problems associated with HVAC equipment in commercial buildings. Includes gas, electric, and heat pump systems. Restricted to Community Colleges campuses only. **Prerequisite(s):** HVAC 103 or consent of instructor.

### HVAC 211. Heat Pump Systems 4 Credits (3+2P)

Reverse cycle refrigeration systems utilized in comfort heating and cooling. Troubleshooting mechanical electrical problems associated with heat pumps. HVAC 103 or consent of instructor.

### HVAC 213. Practicum

### 3 Credits (3)

Working in the field with journeymen service technicians. Develop and apply job skills. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: HVAC majors. Restricted to Community Colleges campuses only.

Prerequisite(s): HVAC 113 and Consent of instructor.

### HVAC 220. Introduction to Sheet Metal Fabrication

#### 4 Credits (3+2P)

Introduction to sheet metal fabrication to include hands-on practical laboratory applications, cutting and forming procedures, identifying types and gauges. Design and layout techniques.

Prerequisite: OETS 118 or equivalent math or consent of instructor.

#### HVAC 225. New Mexico Mechanical Codes: HVAC 1-4 Credits

Principles and regulations developed for HVAC, sheet metal, and plumbing occupations to include terminology, ventilation air supply, exhaust systems, duct systems, combustion air, chimneys and vents, boilers/water heaters, refrigeration, panel and hydronic panel heating, fuel gas piping, storage systems, solar systems, and workmanship standards. May be repeated for a maximum of 12 credits.

#### HVAC 255. Special Topics

#### 1-6 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

#### HVAC 290. Special Problems

#### 1-4 Credits

Individual studies related to heating, air conditioning, and refrigeration. **Prerequisites:** HVAC 101, HVAC 102, and consent of instructor.

### I E-INDUSTRIAL ENGINEERING (I E)

### I E 151. Computational Methods in Industrial Engineering

#### 3 Credits (3)

History, social implications, and application of computers and an introduction to computer programming, word processing, and database management systems. Satisfies General Education computer science requirement.

#### Prerequisite: MATH 1220G.

#### I E 200. Special Problems-Sophomore

#### 1-3 Credits

Directed individual projects. May be repeated for a total of 3 credits. **Prerequisite:** consent of faculty member.

#### I E 217. Manufacturing Processes

#### 2 Credits (2)

Manufacturing methods and industrial processes which include casting, forming and machining. May be repeated up to 2 credits. Crosslisted with: E T 217. E T 110.

Prerequisite(s): MATH 1220G.

#### I E 217 L. Manufacturing Processes Laboratory

#### 1 Credit (3P)

Laboratory associated with I E 217. May be repeated up to 1 credits. **Prerequisite(s):** E T 110. **Corequisite(s):** I E 217.

### INMT - INDUSTRIAL MAINTENANCE (INMT)

# INMT 133. Process Technology and Systems 4 Credits (4)

Provides instruction in the use of common process equipment. Students will use appropriate terminology and identify process equipment components such as piping and tubing, valves, pumps, compressors, turbines, motors, engines, heat exchangers, heaters, furnaces, boilers, filters dryers and other miscellaneous vessels. Included are the basic functions, scientific principles and symbols. Students will identify components on typical Process Flow Diagrams and Process and Instrument Diagrams. Restricted to Carlsbad campus only.

### INMT 134. Maintenance Principles

#### 4 Credits (4)

The course is an introduction to the maintenance of equipment utilizing mechanical, electrical and instrumentation concepts. Topics include: hand tools, bearing fundamentals, equipment lubrication, material handling, electrical safety, battery systems, diagrams, electrical production and distribution, transformers, breakers, switches, AC and DC motors, motor controllers and operations, and introduction to automation and instrumentation control. Restricted to Carlsbad campus only.

#### INMT 165. Equipment Processes 4 Credits (4)

This course introduces power transmission equipment and machinery components, including belt/chain driven equipment, speed reducers, variable speed drives, couplings, clutches, and conveying equipment. Students will learn the operation, maintenance, and troubleshooting for these types of equipment. The course also includes Overhead Crane Certification and Safety. Restricted to Carlsbad campus only.

# INMT 205. Programmable Logic Controllers and Applications 4 Credits (4)

Students learn about programmable logic controllers; architecture; programming, interfacing, and applications. Hands-on experience on modern commercial PLC units is the main component. Restricted to Carlsbad campus only.

### Prerequisite(s): BCIS 1110.

### INMT 223. Electrical Repairs

#### 4 Credits (4)

This course outlines for students the types of problems that occur in electrical machinery and systems. The course covers trouble-shooting and diagnosis, preventative maintenance, and how to make necessary repairs. Restricted to Carlsbad campus only.

#### INMT 235. Mechanical Drives I

#### 4 Credits (4)

This course teaches the fundamentals of mechanical transmission systems used in industrial, agricultural, and mobile applications. Students will learn industrial relevant skills including how to: operate, install and analyze performance, and design basic transmission systems using chains, feed-belts, spur gears, bearings, and couplings. Vibration analysis will be used to determine when to perform maintenance of power transmission components. The course also covers power transmission safety, and introduction to belt and chain drives (applications, installations, and tensioning), and introduction to gear drives, coupling, and bearing, basic troubleshooting, blueprint and print reading, learning the basics of electrical drives and PDM and PM. Restricted to Carlsbad campus only.

### **INMT 236. Lubrication Process**

### 3 Credits (3)

This course teaches the technical skills needed to operate, install, tune, maintain and troubleshoot automatic lubrication systems. Lubrication concepts, setup and tuning, pneumatic pumps, series-progressive valve systems and microprocessor based lubrication controllers will be covered. The course covers the principles of and importance of lubrication, oils and grease types and applications, lube management (storage, handling, and purity), and PDM and PM. Restricted to Carlsbad campus only.

### INMT 237. Hydraulics I

### 2 Credits (2)

This course teaches fundamentals of hydraulic systems used in industry mobile application. Students learn the basic theory of application of hydraulic and electricity as it applies to hydraulics. Covered in the course are basic systems, principles of flow, pressure, viscosity, filtration, and colling. Also covered are basic components such as motor, pumps, cylinders, piping and control and relief valves. Troubleshooting strategies are discussed, along with blueprint and print reading, and PDM and PM. Industry, relevant skills including how to operate, install, analyze performance, and design basic hydraulic systems, reviewing intermediate hydraulic components and system applications. Restricted to Carlsbad campus only.

#### INMT 261. Pump Operations I 4 Credits (4)

This course teaches how to select, operate, install, maintain and repair the many types of pumps used by industry. Students learn the theory and practical application of all types of processed pumps and pipe systems. It covers types, components, and systems operation. It also covers troubleshooting for flow loss and cavitation. Students learn how to select, operate, install, maintain and repair the many types of pumps used by industry. Other topics covered include: Net Positive Suction Head, pump flow/head measurement, pressure head conversion, pressure flow characteristics, cavitation, series/parallel pump operation, mechanical seal/stuffing box maintenance, multi stage operation and construction, positive displacement pumps, turbine, diaphragm, peristaltic, piston, gear, and magnetic pump systems. Restricted to Carlsbad campus only.

### INMT 262. Piping Systems

### 2 Credits (2)

This course teaches students how to install, maintain and troubleshoot fluid systems such as how to select, size, identify, install a variety of types of piping, fittings, and valves. Measurement techniques from basic to precision measurement, gauging, including the fundamentals of demonsioning and tolerancing will taught. Restricted to Carlsbad campus only.

#### INMT 263. Mechanical Drives II 4 Credits (4)

This course teaches the bearings and gears used in heavy duty mechanical transmission systems. This course will emphasize linear access drives, clutches, and brakes. In addition, this course teaches how to set up, operate and apply laser shaft alignment to a variety of industrial applications. This course is a study of the basic concepts and procedures for the maintenance and operations of pumps, turbines, seals, bearings, and compressors. The course will provide the student with the knowledge and skills necessary to perform proper maintenance, repair, replacement and selection of pumps, turbines, seals, bearings and compressors. Also covered are advanced gearbox, coupling and bearings, precision alignment (shaft, flange, and sheave), as well as basic vibration analysis and thermography as troubleshooting and RCA aids. Restricted to Carlsbad campus only.

### INMT 264. Rigging 2 Credits (2)

This course teaches how to safely move loads of different shapes and sizes using a variety of different methods. Students will lift loads and demonstrate how to move it. Students will use hoists, slings, ropes and fittings to learn how to safely lift a wide variety of loads. Included are weight estimation, lifting rules, load ratings (sling, wire, ropes and hoists). Restricted to Carlsbad campus only.

### INMT 265. Hydraulics II

### 2 Credits (2)

This course teaches advanced hydraulics systems. The student will learn operation of advanced hydraulic systems applications, equipment installation, performance analysis of motors and pumps, accumulators, control, relief and check valve, equipment maintenance, and system design. The course covers accumulators, sequence valves, pilot circuits and unloader valves. Students learn more troubleshooting, hydraulic drives and other applications. Restricted to Carlsbad campus only.

#### INMT 267. Pump Operations II 2 Credits (2)

This course teaches the student the disassembly, inspection and reassembly of centrifugal and positive displacement pumps. This course allows the student to identify and replace worn or broken components of pumps, and learn predictive and preventive maintenance principles. Lockout of the pump will be performed in addition to measurements and alignment. Restricted to Carlsbad campus only.

# INTEGRATED NATURAL SCIENCES (NSC)

### NSC 131. General Sciences 3 Credits (2+2P)

Designed for Allied Health students to explore the fundamentals of physical and life sciences.

### **JAPN-JAPANESE**

### JAPN 1110. Japanese I

#### 4 Credits (4)

This course focuses on the basics of the Japanese language with a balanced approach to the development of four skills: listening, speaking, reading and writing. The course is designed to teach students to communicate with Japanese socially and to utilize culturally appropriate manners to engage in Japanese daily life. While conversational skills are emphasized, the student will also be introduced to the various Japanese scripts.

### JAPN 1120. Japanese II

### 4 Credits (4)

This course focuses on building upon the basics of the Japanese language with a balanced approach to the development of four skills: listening, speaking, reading and writing. The course is designed to teach students to communicate with Japanese socially and to utilize culturally appropriate manners to engage in Japanese daily life. Along with further developing conversational skills, the student will also continue to learn about and utilize various Japanese scripts.

Prerequisite: grade of C or better in JPNS 1110 or consent of instructor.

#### JAPN 2110. Japanese III 3 Credits (3)

This course is designed for students who have completed 12 credit hours or the equivalent of Japanese study. This course continues to expand vocabulary, grammar and 209 Kanji to deal with daily activities. Its objective is to teach students to communicate in a meaningful way using all four language skills: speaking, listening comprehension, reading and writing. Students will be able to manage not-complicated daily situation. Students will attain ACTFL intermediate-low level in four skills. **Prerequisite:** grade of C or better in JPNS 1120 or consent of instructor.

### JAPN 2120. Japanese IV

#### 3 Credits (3)

This course is designed for students who have completed 15 credit hours or the equivalent of Japanese study. This course continues to expand vocabulary, grammar and 271 Kanji to deal with not-complicated daily situation with ease. Also students acquire a competence for Japanese pragmatic usage. This course follows ACTFL language guidelines, integrating the five C's: communication, cultures, connections, comparisons and communities, to offer the student a well- rounded classroom experience. Students will attain ACTFL intermediate-mid level in four skills.

Prerequisite: grade of C or better in JPNS 2110 or consent of instructor.

# JOUR-JOURNALISM (JOUR)

### JOUR 102. Grammar for Journalists

### 2 Credits (2)

Instruction of basic grammar, spelling and punctuation. Required for all journalism students with an ACT English score below 25, SAT Verbal below 570, or students who have not taken ACT/SAT tests. Restricted to Las Cruces campus only.

### JOUR 105G. Media and Society

#### 3 Credits (3)

Functions and organization of the mass media system in the United States; power of the mass media to affect knowledge, opinions, and social values; and the impact of new technologies.

### JOUR 110. Introduction to Media Writing

#### 3 Credits (2+2P)

Preparation of copy for broadcasting, print, advertising, and public relations. Introduction to Web applications. May be repeated up to 3 credits.

**Prerequisite(s):** JOUR 102 or ACT score of 25 and above or SAT score of 570 and above.

### JOUR 201. Introduction to Multimedia 3 Credits (3)

Provide students with the basic skills to produce multimedia packages using text, photos, audio and video, as well as social media for professional purposes. Intensive hands-on class using editing software such as Adobe Premiere. Adobe Audition and Photoshop. May be repeated up to 3 credits.

### JOUR 210. Newswriting & Reporting

### 3 Credits (2+2P)

Intensive laboratory practice in writing and field reporting news for print and Internet. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

**Prerequisite(s):** JOUR 102 or ACT score of 25 and above or SAT score of 570 and above and JOUR 110.

# L SC-LIBRARY SCIENCE (L SC)

### L SC 100. Introduction to Libraries

#### 3 Credits (3)

Overview of libraries, including history and development, responsibilities of library personnel, types of libraries and services, and technology and trends. Restricted to Dona Ana campus only.

### L SC 110. Reference and Information Resources I 3 Credits (3)

Overview of reference services. Introduction to, and evaluation of, basic types of information resources (both print and electronic) and their application in libraries.

# L SC 111. Introduction to Information Literacy in an Electronic Environment

### 3 Credits (3)

Introduction to the basics of the research process; the organization, location and evaluation of information using print, non-print and electronic resources. Restricted to: Community Colleges only.

# L SC 112. Introduction to Consumer Health Information Literacy in an Electronic Environment

#### 3 Credits (3)

Introduction to consumer health information literacy; the process and organization, location, and evaluation of online information. Restricted to: Community Colleges only.

### L SC 120. Cataloging Basics I: Descriptive Cataloging 3 Credits (3)

Introduction to descriptive cataloging. Restricted to: Dona Ana campus only.

# L SC 130. Introduction to Technical Services in Libraries 3 Credits (3)

Introduction to technical services in libraries, including acquisitions, bindery, cataloging, gifts, and serials. Restricted to Dona Ana campus only.

### L SC 140. Multimedia Materials and Presentations in Libraries 3 Credits (3)

Overview of media formats and equipment. Introduction to desktop publishing, presentations, and web-page creation applications in libraries. Restricted to: Community Colleges only.

### L SC 150. Library Services for Children and Young Adults 3 Credits (3)

Library services for children and young adults with an overview of materials, programs, and services for this population. Restricted to: Dona Ana campus only.

### L SC 154. State Children's Book Awards

### 1 Credit (1)

Students will explore the state book award offered by their state. Students will read some of the books and plan library programs to promote the award. Restricted to: Dona Ana campus only.

# L SC 160. Introduction to Public Services in Libraries 3 Credits (3)

Introduction to public services in libraries, including circulation, inter-library loan, reference, media services, special collections, and government documents. Restricted to Dona Ana campus only.

#### L SC 175. Civic Involvement in Library Science 1-3 Credits

# Involvement in an organized community service project or group with a library or information technology component. Promotes awareness of volunteer and community service opportunities. May be repeated for a maximum of 6 credits. Graded: S/U. Restricted to: Dona Ana campus only.

# L SC 191. Children's Books and their Movie Adaptations 1 Credit (1)

For almost as long as there have been popular books for children in the United States, there have been dramatic adaptations of them. What is gained, and lost, when children's books are adapted for the big screen? What is the relationship-or what should the connection be-between works of children's literature and their seemingly inevitable film adaptations? Students will be expected to read several children's books and view the movies based on them and make comparisons. Restricted to: Community Colleges only.

### L SC 192. Myths and Legends in Children's Literature 1 Credit (1)

The student will explore myths and legends from diverse cultures; from European and Asian to those who have their roots in Africa and the Americas. Myths which are similar across several cultures will be compared.

### L SC 195. Mysteries for Children

### 1 Credit (1)

In this course the student will become familiar with a wide variety of mysteries for children. Ways to use mysteries in the classroom and school library will also be covered. Restricted to Community Colleges campuses only.

#### L SC 196. Historical Fiction for Children 1 Credit (1)

This course looks at historical fiction as a genre. Topics include: fiction vs. history, American history in children's literature, world history in children's literature, activities for using historical fiction in a school setting. Restricted to: Community Colleges only.

### L SC 200. Collection Management and Development in Libraries 3 Credits (3)

Principles of identifying, selecting, acquiring, managing, and evaluating resources for libraries. Restricted to Dona Ana campus only.

### L SC 201. Public Libraries

### 3 Credits (3)

A study of the American public library and its place in communities. Topics may include history, philosophy, and standards, operations and procedures, governance, funding, personnel materials, user services, outreach and advocacy. Restricted to: Dona Ana campus only.

### L SC 203. School Library Media Specialist

### 3 Credits (3)

Principles and practice of managing the school library media center, with an emphasis on its specific educational mission. Topics may include collection development, classes and lesson plans, public relations, administrative procedures, and use of technology. Restricted to Dona Ana campus only.

# L SC 210. Technology Planning in Libraries 3 Credits (3)

Overview of computer applications in libraries. Topics may include automated systems and electronic resources, introduction to evaluation of technology, and writing a technology plan. Restricted to Dona Ana campus only.

### L SC 220. Innovative Technology Applications for Libraries 3 Credits (3)

A look at uses for innovative technologies in libraries. Topics may include blogs, wikis, podcasting and virtual reality libraries. Restricted to Dona Ana campus only.

#### L SC 221. Experiential Learning I 1-3 Credits

Student is employed (paid or non-paid) in an approved work site and evaluated by their supervisor. Each credit requires a specified number of hours of on-the job work experience. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Dona Ana campus only. **Prerequisite(s):** Consent of instructor.

### L SC 230. Issues and Ethics in Libraries

#### 3 Credits (3)

Discussions of current and continuing challenges to effective library service. Topics may include copyright, censorship, intellectual freedom, Internet filtering, problem patrons, security, or other current issues. Restricted to Dona Ana campus only.

# L SC 240. Internet Resources and Research Strategies 3 Credits (3)

Introduction to retrieving and evaluating information found on the Internet and in selected Internet-accessible databases. Restricted to: Dona Ana campus only.

# L SC 250. Reference and Information Resources II 3 Credits (3)

Evaluation and use of specialized information resources to offer reference services. Emphasis is on virtual reference and other innovative techniques. Restricted to: Dona Ana campus only.

### L SC 255. Special Topics

### 1-3 Credits

Special topics to be announced in Schedule of Classes. May be repeated for a maximum of 12 credits. Restricted to: Dona Ana campus only.

### L SC 270. Library Science Capstone

### 3 Credits (3)

A culmination of all technical courses that are required to receive an Associate of Applied Science from the program centering around the completion of a library related project. Discussions on the role of paraprofessionals in libraries. Restricted to: Dona Ana campus only.

### L SC 275. Fundamentals of Library Supervision 3 Credits (3)

An introduction to supervision of library employees, including student assistants, to create a productive workplace. Restricted to: Dona Ana campus only.

### L SC 286. Children's Literature and the Primary Curriculum 3 Credits (3)

The student will research the use of picture books and other children's literature across the curriculum with students in kindergarten through second grade. Topics include: using literature to teach writing, using literature to teach science, using literature to teach math, using literature to teach social studies. Restricted to: Community Colleges only.

### L SC 291. Southwestern Children's Literature

### 1 Credit (1)

This course will introduce students to books which can teach the children visiting your library more about the people and places of the southwest. Restricted to: Dona Ana campus only.

# L SC 295. Introduction to Young Adult Literature 3 Credits (3)

The course will expose students to quality adolescent literature available for reading and study in middle and high school classes. It provides a broad survey of young adult literature and focuses on building an appreciation of literature, encouraging student reading, developing lifelong readers, and developing activities for critical thinking. Restricted to: Community Colleges only.

# L SC 296. Multicultural Books for Children and Youth 3 Credits (3)

This course explores a wide range of multicultural children's literature including: African American, Native American, Latino, Asian, Jewish, and Middle Eastern. Topics covered include: nonfiction of the cultures, historical fiction of the cultures, and contemporary literature of the cultures. Restricted to: Community Colleges only.

### L SC 298. Independent Study

### 1-3 Credits

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated for a maximum of 12 credits. Restricted to: Dona Ana campus only.

# LANG-LANGUAGE (LANG)

### LANG 111. Beginning Language I

### 4 Credits (4)

Developing language skills through study abroad for languages not offered at NMSU main campus. Specific languages to be identified with course subtitles. Main campus only.

Prerequisite: Language placement exam or consent of the instructor.

# LAWE-LAW ENFORCEMENT (LAWE)

### LAWE 180. Public Safety First Line Supervisor

### 3-6 Credits (3-6)

This course is designed to enhance public safety personnel's human resource management and reduce organizational liability. Consent of Instructor required. Restricted to Community Colleges campuses

# LAWE 201. Introduction to Juvenile Delinquency 3 Credits (3)

An introductory overview of the juvenile justice system of due process, custody, detention and release. Note: course does not meet upper division requirements towards completion of Bachelor of Science in Criminal Justice. Restricted to: Community Colleges Only.

### LAWE 202. Police Patrol Procedures

### 3 Credits (3)

A critical review of police procedures and the influences on police behavior; policy development, including the police role; discretion; police community interaction and arrest, search and seizure. Restricted to: Community Colleges only.

# LAWE 203. Introduction to Police Supervision 3 Credits (3)

An introductory overview of police supervision and concerns as it applies to law enforcement. (Note: Course does not meet upper division requirements toward completion of Bachelor of Science in Criminal Justice.) Restricted to: Community Colleges only.

# LAWE 204. Introduction to Homeland Security 3 Credits (3)

A historical perspective of international and domestic terrorist threats and the need to develop cohesive response policies and practices in the interest of National Security. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.] Restricted to: Community Colleges only. **Prerequisite(s):** CJUS 1110G.

### LAWE 205. Practical Field Investigations 4 Credits (3+3P)

Incorporates the current methods and techniques for the management of the crime scene, includes documentation, collection and preservation of evidence and case presentations. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.] Restricted to Community Colleges campuses only. **Prerequisite(s):** CJUS 1110G and CJUS 2140.

# LAWE 206. Traffic Enforcement and Crash Investigations 3 Credits (3)

History and development of traffic laws and regulations, including basic elements of traffic violations, detection, apprehension, impaired drivers and guidelines and procedures for effective crash investigations and reporting. Restricted to: Community Colleges only.

### LAWE 207. Legal Aspects of Law Enforcement

### 3 Credits (3)

An evaluation of police authority including responsibilities, civil liability, liability implications, legal obligations, legal restraints, laws of arrest, and search and seizure. Retricted to: Community Colleges only.

### LAWE 221. Law Enforcement Internship 3 Credits (3)

Application of knowledge, skills and abilities, in an agency as an intern and integrated member of a law enforcement affiliated agency. **Prerequisite:** consent of instructor.

### LAWE 233. Practical Approach to Terrorism 3 Credits (3)

Gives responders an overall safety approach in recognizing and responding to incidents involving terrorism. Presents and overview in types of harm, explosive weapons, chemical weapons, biological weapons and radiological weapons. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.] Restricted to: Dona Ana campus only. Crosslisted with: FIRE 233

### LAWE 255. Special Topics 1-3 Credits (1-3)

Introductory special topics of lower division level work that provides a variety of timely subjects and content material. Specific subjects to be announced in the Schedule of Classes. A passing grade of C- or better is required. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses

### LAWE 298. Independent Study

### 3 Credits (3)

Individual studies directed by the consenting faculty with prior approval of the department chair. A passing grade of C- or better is required. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s): Sophomore standing with a 3.0 or better GPA.

# LIBR-LIBRARY SCIENCE

### LIBR 1110. Introduction to Research

### 1 Credit (1)

The goal of this course is to provide students with techniques and tools to become better researchers. This course introduces students to the research process, and the organization, location, and evaluation of information.

# LIBR 1111. Introduction to Information Literacy in an Electronic Environment

### 3 Credits (3)

Introduction to the basics of the research process; the organization, location and evaluation of information using print, non-print and electronic resources; and techniques of effective personal information management in a computerized setting. Uses a combination of active and hands-on learning methods as well as lectures.

# LING-LINGUISTICS (LING)

# LING 2110G. Introduction to the Study of Language and Linguistics 3 Credits (3)

This course presents an introduction to the study of language through the basic aspects of linguistic analysis: the sound system (phonetics and phonology), the structure of words and sentences (morphology and syntax), and the ways in which language is used to convey meaning (semantics and pragmatics). In addition, the course will investigate how language is acquired and stored in the brain, and how differences in speech styles and dialects reflect different social and cultural backgrounds of individual speakers.

### M E-MECHANICAL ENGINEERING (M E)

### M E 159. Graphical Communication and Design

### 2 Credits (1+3P)

Sketching and orthographic projection. Covers detail and assembly working drawings, dimensioning, tolerance specification, and design projects.

Prerequisite(s)/Corequisite(s): MATH 1250G.

# M E 201. Supplemental Instruction to Dynamics 1 Credit (1)

Optional workshop for students in M E 237. The workshop focuses on problem solving skills associated with M E 237. Course does not count toward departmental degree requirements. May be repeated up to 1 credits. Restricted to Las Cruces campus only. **Corequisite(s):** M E 237.

# M E 202. Supplemental Instruction to Thermodynamics 1 Credit (1)

Optional workshop for students in ME 240. The workshop focuses on problem solving skills associated with ME240. Course does not count toward departmental degree requirements. Restricted to Las Cruces campus only.

Corequisite(s): M E 240.

### M E 210. Electronics and System Engineering 3 Credits (2+3P)

Introduction to microcontrollers, measurement systems, motion actuators, sensors, electric circuits, and electronic devices and interfacing. Students required to work individually and in teams to design and test simple electromechanical systems. May be repeated up to 3 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** MATH 1521G or MATH 1521H.

### M E 222. Introduction to Product Development 3 Credits (2+3P)

Introduction to modern methods used in the realization of products. Traditional manufacturing processes, such as metal stamping, turning, milling, and casting are reviewed. Modern methods of rapid prototyping and model making are discussed in context of computer-aided design. Techniques for joining metals, plastics, and composites are discussed. Role of quality control is introduced. May be repeated up to 3 credits. Restricted to: exclude majors.

Prerequisite(s): M E 159 or E T 110.

### M E 228. Engineering Analysis I

### 3 Credits (3)

Introduction to engineering analysis with emphasis on engineering applications. Topics include ordinary differential equations, linear algebra, and vector calculus with focus on analytical methods. Restricted to Las Cruces campus only.

Prerequisite(s): MATH 2530G.

### M E 234. Mechanics-Dynamics

3 Credits (3) Kinematics and dynamic behavior of solid bodies utilizing vector methods

Prerequisite(s)/Corequisite(s): MATH 2530G. Prerequisite(s): C E 233.

### M E 236. Engineering Mechanics I

### 3 Credits (3)

Force systems, resultants, equilibrium, distributed forces, area moments, friction, and kinematics of particles. May be repeated up to 3 credits. **Prerequisite(s)/Corequisite(s):** PHYS 1310G. Prerequisite(s): MATH 1521G or MATH 1521H.

### M E 237. Engineering Mechanics II

### 3 Credits (3)

Kinetics of particles, kinematics and kinetics rigid bodies, systems of particles, energy and momentum principles, and kinetics of rigid bodies in three dimensions. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 2530G. Prerequisite(s): M E 236.

### M E 240. Thermodynamics

### 3 Credits (3)

First and second laws of thermodynamics, irreversibility and availability, applications to pure substances and ideal gases.

Prerequisite: PHYS 1310G.

### M E 261. Mechanical Engineering Problem Solving 3 Credits (2+3P)

Introduction to programming syntax, logic, and structure. Numerical techniques for root finding, solution of linear and nonlinear systems of equations, integration, differentiation, and solution of ordinary differential equations will be covered. Multi function computer algorithms will be developed to solve engineering problems. May be repeated up to 3 credits.

Prerequisite(s): MATH 1521G or MATH 1521H.

# **M SC-MILITARY SCIENCE (M SC)**

#### M SC 110. Introduction to Military Science

### 2 Credits (2+1P)

Introduction to the Army, the Profession of Arms, and critical thinking. Students will examine the Army Profession and what it means to be a professional in the U.S. Army. The overall focus is on developing basic knowledge and comprehension of the Army Leadership Requirements Model while gaining a complete understanding of the Reserve Officers' Training Corps (ROTC) program, its purpose in the Army, and its advantages for the student. Cadets also learn how resiliency and fitness supports their development as an Army leader. Includes a weekly lab facilitated by MSL III Cadets and supervised by Cadre. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

#### M SC 110 L. Introduction to Military Science Lab 1 Credit (1P)

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 110.

### M SC 111. Introduction to Leadership 2 Credits (2+1P)

Introduction to the personal challenges and competencies that are critical for effective leadership. Students learn how the personal development of life skills such as critical thinking, time management, goal setting, and communication contribute to effective leadership. Students learn the basics of the communications process and the importance for leaders to develop the essential skills to effectively communicate in the Army. Students will begin learning the basics of squad level tactics that will be reinforced during a weekly lab facilitated by MSL III Cadets and supervised by Cadre. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

#### M SC 111 L. Introduction to Leadership Lab 1 Credit (1P)

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 111.

### M SC 210. Self/Team Development

3 Credits (3+1P)

A focus on leadership and decision making. The course adds depth to the student's understanding of the Adaptability Army Learning Area. Outcomes are demonstrated through Critical and Creative Thinking and the ability to apply Troop Leading Procedures (TLP) to apply Innovative Solutions to Problems. The Army Profession is also stressed through leadership forums and a leadership self-assessment. Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during a weekly lab facilitated by MSL III Cadets and supervised by Cadre and three physical fitness sessions per week. Restricted to Las Cruces campus only.

### M SC 210 L. Self/Team Development Lab 1 Credit (1P)

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 210.

### M SC 211. Leadership in Action and Team Building 3 Credits (3+1P)

A focus on Army doctrine and team development. The course begins the journey to understand and demonstrate competencies as they relate to Army doctrine. Army Values, Teamwork, and Warrior Ethos and their relationship to the Law of Land Warfare and philosophy of military service are also stressed. The ability to lead and follow is also covered through Team Building exercises at squad level. Students are then required to apply their knowledge outside the classroom in a hands-on 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 (1P)

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 211.

### M SC 225. Directed Studies 1-3 Credits

Individual directed studies under supervision of the Professor of Military Science. May be repeated up to 12 credits. Restricted to Las Cruces campus only.

Prerequisite(s): GPA 2.5 or better.

# MAT-AUTOMATION & MANUFACTURING (MAT)

# MAT 102. Print Reading for Industry 3 Credits (2+2P)

Reading, interpretation, and revisions of industrial technical drawings common to manufacturing, Aerospace, machine parts, electrical, hydraulic, and Pneumatic drawings. Interpretation of engineering drawings and related shop calculations. Introduction Crosslisted with: AERT 113. Restricted to: Community Colleges only.

# MAT 105. Introduction to Manufacturing 3 Credits (2+2P)

Introduction to manufacturing evolution from basic assembly process to modern automated processes. Covers history, employability, soft skills, quality measurements, teamwork concept, production requirements, and considerations in plan layout and design. Minimum math proficiency of CCDM 114 required or math placement into MATH 1215 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 112

### MAT 106. Applied Manufacturing Practices 3 Credits (2+2P)

Course will illustrate how various products are manufactured along with associated process. Mechanical behavior such as bending, cold worked, strained, work hardened, and heat transfer will be emphasized as well. In lab, students will learn how to make selected products starting from prints to complete projects including quality control. Crosslisted with: AERT 114. Restricted to: Community Colleges only.

### MAT 108. Metrology, Safety and Quality Control for Manufacturing 3 Credits (2+2P)

Use of measuring tools in manufacturing process and quality control. These tools include: vernier and digital micrometers, calipers, height gauges, hole gauges, pin gauges, electrical pressure/flow, temperature measuring, stress/strain measurements, and non-destructive testing (eddy currents, magnetic particle, ultrasonic, bubble emission, x-ray, Gamma ray, radiography, visual inspection, ring test, taping & Zyglo). Instruction to use of coordinate machine while covering the safety issues that pertains to these types of tools and equipment. Restricted to: Community Colleges only.

# MAT 110. Machine Operation and Safety 3 Credits (2+2P)

Introduction to the operation and safety aspects of various types of machinery and equipment, including both mechanical and electrical machines, Rigid Tubing, and Flexible Lines. Maintenance and safety operation of industrial equipment will also be covered. Restricted to: Community Colleges only. Crosslisted with: AERT 115

### MAT 130. Applied Industrial Electricity I

#### 4 Credits (3+2P)

Electrical safety, AC and DC circuits, use and care of common measuring instrumentation, schematic and wiring diagrams, electromagnetism, National Electric Code branch circuits. Restricted to: Community Colleges only.

Prerequisite(s): MATH 1215 or ELT 120 or OETS 118.

### MAT 135. Applied Industrial Electricity II

### 4 Credits (3+2P)

Relationship between motor power, speed, and torque, basic application of relay circuits, motor control circuits, inductance and capacitance factors, transformers, solid state devices circuits and applications. Restricted to: Community Colleges only. **Prerequisite(s):** MAT 130.

# MAT 145. Electromechanical Systems for Non-Majors 4 Credits (3+3P)

Electromechanical system interfacing. Principles and applications of preventive and corrective maintenance procedures on automated industrial production machines using system technical and maintenance manuals to develop troubleshooting procedures using systems block and schematic diagrams.

Prerequisite: consent of instructor.

### MAT 221. Cooperative Experience I

#### 1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and rated by employer and instructor. Student meets in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

### MAT 234. Industrial Electricity Maintenance 3 Credits (2+2P)

Introduction into electrical systems, theory and uses for the different types of motors used in the industry and related industrial safety practices. DC, AC stepper and servo motors, motor speed and torque, motor performance, and efficiency, motor control fundamentals using variable frequency drives, vector controls, servo and stepper drives. Restricted to: Community Colleges only.

### MAT 265. Special Topics

#### 1-6 Credits

Course subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

# **MATH-MATHEMATICS (MATH)**

A student may not receive credit for a lower-division mathematics course if it serves as a prerequisite to a lower-division math course that the student had previously passed with a grade of C- or better.

Students without adequate placement to enroll in MATH 1134, MATH 1215 or MATH 1130G can gain admission to the course by earning a C- or better in CCDM 114 N at an NMSU Community College campus, or in A S 103.

Students wishing to enroll in MATH 1220G, MATH 1430G, MATH 1250G, MATH 1511G, or MATH 1350G must satisfy one of the following:

- 1. have passed the stated prerequisite course or an equivalent transfer course with a C- or better
- have placed into the course with an adequate ACT Math score or through the Mathematics Placement Examination (MPE), the results of which will be made available to the student's advisor. The MPE is given daily in Walden Hall when school is in session and during new student orientation programs.

### MATH 1130G. Survey of Mathematics 3 Credits (3)

This course will develop students' ability to work with and interpret numerical data, to apply logical and symbolic analysis to a variety of problems, and/or to model phenomena with mathematical or logical reasoning. Topics include financial mathematics used in everyday life situations, statistics, and optional topics from a wide array of authentic contexts. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in CCDM 113 N or CCDM 114 N or A S 103 or higher

# MATH 1134. Fundamentals of Elementary Mathematics I 3 Credits (3)

Numbers and the four operations of arithmetic. Understanding and comparing multiple representations of numbers and operations, in particular how these representations build from whole numbers to integers to fractions and decimals. Applying properties of numbers and operations in contextual situations. Reasoning, communicating, and problem solving with numbers and operations. Applications to ratio, and connections with algebra. Taught primarily through student activities and investigations. Restricted to: EDUC,EPAR,E ED,ECED majors. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1215 or higher

### MATH 1215. Intermediate Algebra 3 Credits (3)

A study of linear and quadratic functions, and an introduction to polynomial, absolute value, rational, radical, exponential, and logarithmic functions. A development of strategies for solving single-variable equations and contextual problems. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in CCDM 113 N or CCDM 114 N or A S 103 or higher

### MATH 1217. General Supplemental Instruction I 1 Credit (2P)

Collaborative workshop for students enrolled in Intermediate Algebra. Graded: S/U Grading (S/U, Audit). Corequisite(s): MATH 1215

### MATH 1220G. College Algebra

#### 3 Credits (3)

The study of equations, functions and graphs, reviewing linear and quadratic functions, and concentrating on polynomial, rational, exponential and logarithmic functions. Emphasizes algebraic problem solving skills and graphical representation of functions. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1215 or higher

### MATH 1221. General Supplemental Instruction II 1 Credit (1+2P)

Collaborative workshop for students enrolled in College Algebra. Graded: S/U Grading (S/U, Audit).

Corequisite(s): MATH 1220G.

#### MATH 1250G. Trigonometry & Pre-Calculus 4 Credits (3+2P)

Trigonometry & Pre-Calculus includes the study of functions in general with emphasis on the elementary functions: algebraic, exponential, logarithmic, trigonometric and inverse trigonometric functions. Topics include rates of change, limits, systems of equations, conic sections, sequences and series, trigonometric equations and identities, complex number, vectors, and applications.Prerequisiste(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1220G or higher

### MATH 1350G. Introduction to Statistics

#### 3 Credits (3)

This course discusses the fundamentals of descriptive and inferential statistics. Students will gain introductions to topics such as descriptive statistics, probability and basic probability models used in statistics, sampling and statistical inference, and techniques for the visual presentation of numerical data. These concepts will be illustrated by examples from a variety of fields. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1215 or higher

### MATH 1430G. Applications of Calculus I

#### 3 Credits (2+2P)

An algebraic and graphical study of derivatives and integrals, with an emphasis on applications to business, social science, economics and the sciences. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1220G or higher

### MATH 1435. Applications of Calculus I

#### 3 Credits (3)

Intuitive differential calculus with applications to engineering. **Prerequisite(s):** C- or better in MATH 1250G.

### MATH 1440. Applications of Calculus II 3 Credits (3)

Topics in this second course of Applications of Calculus include functions of several variables, techniques of integration, an introduction to basic differential equations, and other applications. **Prerequisites:** C or better in MATH 1430G or in MATH 1521G, or in

### MATH 1521H.

### MATH 1511G. Calculus and Analytic Geometry I 4 Credits (4)

Limits and continuity, theory and computation of derivatives, applications of derivatives, extreme values, critical points, derivative tests, L'Hopital's Rule. Prerequisiste(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1250G or higher

### MATH 1521G. Calculus and Analytic Geometry II 4 Credits (4)

Riemann sums, the definite integral, antiderivatives, fundamental theorems, techniques of integration, applications of integrals, improper integrals, Taylor polynomials, sequences and series, power series and Taylor series.

Prerequisite(s): C or better in MATH 1511G.

#### MATH 1521H. Calculus and Analytic Geometry II Honors 4 Credits (3+1P)

A more advanced treatment of the material of MATH 1521G with additional topics. Consent of Instructor required. Restricted to Las Cruces campus only. Consent of Department.

### MATH 1531. Introduction to Higher Mathematics 3 Credits (3)

Logic; sets, relations, and functions; introduction to mathematical proofs. **Prerequisite(s):** C- or better in MATH 1521G or MATH 1521H.

#### MATH 1996. Topics in Mathematics 1-3 Credits

Topics to be announced in the Schedule of Classes. Maximum of 3 credits per semester. Total credit not to exceed 6 credits. Community Colleges only.

Prerequisite: consent of instructor.

### MATH 2134G. Fundamentals of Elementary Math II 3 Credits (3)

Geometry and measurement. Multiple approaches to solving problems and understanding concepts in geometry. Analyzing and constructing two- and three-dimensional shapes. Measurable attributes, including angle, length, area, and volume. Understanding and applying units and unit conversions. Transformations, congruence, and symmetry. Scale factor and similarity. Coordinate geometry and connections with algebra. Reasoning and communicating about geometric concepts. Taught primarily through student activities and investigations. **Prerequisite(s):** C or better in MATH 1134.

# MATH 2234. Fundamentals of Elementary Mathematics III 3 Credits (3)

Probability, statistics, ratios, and proportional relationships. Experimental and theoretical probability. Collecting, analyzing, and displaying data, including measurement data. Multiple approaches to solving problems involving proportional relationships, with connections to number and operation, geometry and measurement, and algebra. Understanding data in professional contexts of teaching. Taught primarily through student activities and investigations.

Prerequisite(s): C or better in MATH 2134G.
### MATH 2350G. Statistical Methods

### 3 Credits (3)

Exploratory data analysis. Introduction to probability, random variables and probability distributions. Concepts of Central Limit Theorem and Sampling Distributions such as sample mean and sample proportion. Estimation and hypothesis testing single population parameter for means and proportions and difference of two population parameters for means and proportions. Analysis categorical data for goodness of fit. Fitting simple linear regression model and inference for regression parameters. Analysis of variance for several population means. Techniques in data analysis using statistical packages. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1215 or higher

#### MATH 2415. Introduction to Linear Algebra

#### 3 Credits (3)

Systems of equations, matrices, vector spaces and linear transformations. Applications to computer science. **Prerequisite(s):** Grade of C- or better in MATH 1521G or MATH 1521H.

#### MATH 2530G. Calculus III

#### 3 Credits (3)

The purpose of this course, which is a continuation of Calculcus II, is to study the methods of calculus in more detail. The course will cover the material in the textbook from Chapters 10-14.Vectors in the plane and 3-space, vector calculus in two-dimensions, partial differentiation, multiple integration, topics in vector calculus, and complex numbers and functions.

Prerequisite(s): Grade of C- or better in MATH 1521G or MATH 1521H.

#### MATH 2992. Directed Study

1-3 Credits

May be repeated for a maximum of 6 credits. Graded S/U. **Prerequisite:** consent of the instructor.

### **MGMT-MANAGEMENT**

#### MGMT 2110. Principles of Management

#### 3 Credits (3)

An introduction to the basic theory of management including the functions of planning, organizing, staffing, leading, and controlling; while considering management's ethical and social responsibilities.

### **MKTG-MARKETING (MKTG)**

### MKTG 180. Level 1, PGA's PGM Education Program (Part 1) 3 Credits (3)

Level 1 Part 1 of the PGA PGM Education Program. Introduction to the Policies and Procedures of the PGA Golf Mgt. Program and the PGA of America. Students will complete the PGA Qualifying Level,Facility Management 1A (Tournament Ops A, Rules of Golf B, and Career Enhancement B), and the corresponding Work Experience Activities. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

### MKTG 181. Level 1, PGA's PGM Education Program (Part 2) 3 Credits (3)

Level 1 Part 2 of the PGA PGM Education Program. This class will focus on Teaching and Coaching 1, the corresponding PGA Work Experience Activities, and PGA Teaching Seminars. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

### MKTG 2110. Principles of Marketing 3 Credits (3)

Survey of modern marketing concepts and practices focusing on the marketing mix: product, pricing, promotion, and distribution strategies. Topics include: the marketing environment, consumer behavior, marketing research, target marketing, and the ethical and social responsibilities of marketers. May be repeated up to 3 credits. **Prerequisite(s):** BUSA 1110.

### MKTG 280. Level 1, PGA's PGM Education Program (Part 3) 3 Credits (3)

Level 1 Part 3 of the PGA PGM Education Program. This class will focus on Facility Management 1B (Business Planning A, Customer Relations A, Golf Car A, Merchandising A, Turfgrass A), Level 1 Checkpoint Exams, and the corresponding PGA Work Experience Activities. Students will also be required to provide an internship evaluation report. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

### MKTG 281. Level 2, PGA's PGM Education Program (Part 1) 3 Credits (3)

Level 2 Part 1 of the PGA PGM Education Program. This class will focus on Teaching and Coaching 2, Teaching and Coaching Seminars, and the corresponding PGA Work Experience Activities. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

### **MUSC-MUSIC**

### MUSC 1110G. Music Appreciation: Jazz

### 3 Credits (3)

This course explores the ideas of music in society and its cultural relevance and is designed to increase the students' appreciation of music as well as to enhance their listening skills. Students are introduced to various periods, styles, and composers of music and become acquainted with knowledge and appreciation of Jazz from various cultures and times.

### MUSC 1130G. Music Appreciation: Western Music 3 Credits (3)

This course explores the ideas of music in society and its cultural relevance and is designed to increase the students' appreciation of music as well as to enhance their listening skills. Students are introduced to various periods, styles, and composers of music and become acquainted with knowledge and appreciation of Western music from various cultures and times.

### MUSC 1210. Fundamentals of Music for Non-majors 3 Credits (3)

A beginning course in the fundamentals of music, this course includes notation, scales, key signatures and intervals. Aural comprehension is introduced through singing intervals, scales and triads and dictating simple rhythmic and melodic patterns and students explore the basic components of music. Traditional Grading with RR.

### MUSC 1310. Recital Attendance 0.5 Credits (.5+1P)

This course is for music students to attend and participate in a good number of convocation, concert, and recital performances, creating a wider appreciation for the performing arts. May be repeated up to 4 credits. Restricted to: Music and Music Education majors. S/U Grading with RR. Restricted to Las Cruces campus only.

### MUSC 1410. Introduction to Music Education 2 Credits (2)

This course is an overview of teaching in the music classroom through readings and observations. Students will be introduced to the skills needed to become a reflective educator, develop observation techniques, and demonstrate knowledge of the current state of the profession. Restricted to Las Cruces campus only.

### MUSC 1440. Class Voice I

#### 1 Credit (1)

Group instruction in voice and vocal pedagogy for instrumental Music Education majors, offering basic principles of healthy vocal production with particular attention to diction, development of vocal range, and the ability to impart that knowledge to elementary, junior and/or high school age students. Restricted to: Music Education majors. Traditional Grading with RR. Restricted to Las Cruces campus only.

#### MUSC 1450. Ear Training I

#### 1 Credit (1)

To develop the ability to accurately hear, identify, sing and notate musical elements including rhythm, melody, intervals and harmony Traditional Grading with RR. Restricted to Las Cruces campus only.

**Prerequisite(s):** Passing the Theory Placement exam or making a C or better in MUSC 1210.

#### MUSC 1451. Ear Training II

#### 1 Credit (1)

To develop the ability to accurately hear, identify, sing and notate musical elements including rhythm, melody, intervals and harmony Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C- or better in MUSC 1450.

### MUSC 1460. Music Theory I

#### 3 Credits (3)

Introduction to vocabulary and syntax of 4-voice 18th c. chorale music through study and harmonic analysis.

**Prerequisite(s):** Passing the Theory Placement exam or making a C or better in MUSC 1210.

### MUSC 1461. Music Theory II

#### 3 Credits (3)

Expansion of vocabulary and syntax of 4-voice 18th c. chorale music through study, harmonic analysis, and part writing. **Prerequisite(s):** Grade of C or better in MUSC 1460.

### MUSC 1470. Functional Piano I

#### 2 Credits (2)

Scales, chords, memorization. Harmonization of simple melodies with the ability to play simple melodies and rhythms. May be taken for unlimited credit. Restricted to music majors. No S/U option.

#### MUSC 1471. Functional Piano II

#### 2 Credits (2)

Scales, chords, memorization. Harmonization of simple melodies with the ability to play simple melodies and rhythms. May be taken for unlimited credit. Restricted to music majors. No S/U option.

Prerequisite: MUSC 1470 or consent of instructor.

### MUSC 1472. Functional Piano III

#### 2 Credits (2)

For music majors preparing for the Piano Proficiency Examination. May be taken for unlimited credit. Restricted to music majors. No S/U option. **Prerequisite:** MUSC 1471 or consent of instructor.

#### MUSC 1992. Applied Music 1-2 Credits

Private or group instruction for non-music majors, secondary instruments, and music majors preparing for 200-level applied music. May be taken for unlimited credit.

### MUSC 2110. Chamber Ensemble

#### 1 Credit (1)

This course is an exploration of chamber ensembles, allowing students to develop their abilities with their instruments in a group setting. Students will gain a broader understanding of chamber ensemble through study of musical history, as well as various practice exercises and performances. May be repeated up to 16 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** by audition only.

#### MUSC 2120. Major Ensemble

#### 1 Credit (1)

This course is an exploration of major ensembles, allowing students to develop their abilities with their instruments in a group setting. Students will gain a broader understanding of major ensemble through study of musical history, as well as various practice exercises and performances. May be repeated up to 10 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** by audition only.

### MUSC 2130. Jazz Ensemble

#### 1 Credit (1)

This course is an exploration of jazz ensembles, allowing students to develop their abilities with their instruments in a group setting. Students will gain a broader understanding of jazz ensemble through study of musical history, as well as various practice exercises and performances. May be repeated up to 10 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** By audition only.

#### MUSC 2132. Percussion Ensemble

#### 1 Credit (1)

Study and performance of contemporary percussion ensemble literature. May be repeated up to 5 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** by audition only.

### MUSC 2151. An Introduction to World Music, Jazz and Music Research 3 Credits (3)

Introduces world music and jazz within a historical and cultural context, considering significant musical figures, forms, genres, styles, and representative works. A major component will be the development of effective research and scholarly writing skills for the music major or minor. May be repeated up to 3 credits. Restricted to: Music majors and minors. majors. Restricted to Las Cruces campus only.

### MUSC 2210. Diction I

#### 2 Credits (2)

This course is designed to prepare students for singing in multiple languages using concepts of the International Phonetic Alphabet. Students will work to master the basics of phonetic singing to improve their overall musical abilities. Restricted to Las Cruces campus only.

#### MUSC 2220. Diction II

### 2 Credits (2)

This course serves as a continuing study in the concepts of the International Phonetic Alphabet. Students will continue to improve and practice their diction to develop their singing and musical abilities in order to begin the mastery of lyric diction. Restricted to music majors. Restricted to Las Cruces campus only.

Prerequisite: MUSC 2210 or consent of instructor.

### MUSC 2240. Music History and Literature: Antiquity through Baroque 3 Credits (3)

Surveys Western art music within a historical and cultural context, considering significant musical figures, forms, genres, styles, and representative works from antiquity through the end of the Baroque era. An additional emphasis will be given to effective research and scholarly writing skills. Restricted to: M ED,MUSC majors.

Prerequisite(s): A grade of C- or better in MUSC 1450, 1460, and 2151.

### MUSC 2310. Sound and Music Technology

### 1 Credit (1)

This course serves as an overview of current technologies and principles for the recording and production of sound, and the use of computerbased technologies for the production of music. Restricted to: MUSC,M ED majors. Traditional Grading with RR. Restricted to Las Cruces campus only.

Prerequisite(s): MUSC 1460.

### MUSC 2451. Ear Training III

#### 1 Credit (1)

Continuation of MUSC 1451, advanced sight singing, dictation. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C- or better in MUSC 1451.

### MUSC 2452. Ear Training IV

#### 1 Credit (1)

Continuation of MUS 2451, advanced sight singing, dictation. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C or better in MUSC 2451 and MUSC 2460.

### MUSC 2460. Music Theory III

#### 3 Credits (3)

Analysis of Baroque and Classical Music. Vocabulary and syntax of 18th and 19th c. Western art music through study, chordal/formal analysis, and composition. Restricted to Las Cruces campus only. **Prerequisite(s):** Grade of C or better in MUSC 1461.

### MUSC 2461. Music Theory IV

### 3 Credits (3)

Analysis of Romantic, Post-Romantic, Impressionist, and Twelve-Tone Music. Vocabulary and syntax of late 19th and early 20th c. Western art music through study, micro/macro analysis, and composition. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C or better in MUSC 2460.

### MUSC 2470. Functional Piana IV

### 2 Credits (2)

For music majors preparing for Piano Proficiency Examination. May be taken for unlimited credit. Restricted to music majors. No S/U option. **Prerequisite:** MUSC 1472 or consent of instructor.

### MUSC 2510. Applied Music I

#### 1-4 Credits

Individual instruction to develop technique, musicianship, performance and improvisational skills, as well as knowledge of significant repertoire. May be repeated up to 16 credits. Consent of Instructor required. Restricted to: Music and Music Education majors. Traditional Grading with RR. Restricted to Las Cruces campus only. **Prerequisite(s):** Audition.

### MUSC 2993. Opera Workshop

### 1 Credit (1)

Study, translation, analysis, rehearsal and performance of opera. May be repeated up to 10 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** by audition only.

#### MUSC 2996. Special Topics I 1-3 Credits

Emphasis on special areas of music; designed for highly motivated students. May be taken for unlimited credit.

### **NA - NURSING ASSISTANT (NA)**

### NA 101. Nursing Assistant Theory and Lab 6 Credits (5+3P)

Nurse aide skills with emphasis on a bio-psychosocial-cultural approach to client care. Practice of these skills is provided in the laboratory as well as at a clinical site. Successful completion of the course prepares and qualifies the student to take the NACES certification examination. May be repeated up to 6 credits. Restricted to Community Colleges campuses

#### only.

**Prerequisite(s):** (CCDR 110N with C or better OR appropriate placement score) and (CCDE 110N with C or better OR appropriate placement score) and (CCDM 103N with C or better OR appropriate placement score).

### NA 102. Sterile Processing Technician 4 Credits (3+3P)

This course will prepare the student to work as a Sterile Processing Technician, performing critical functions that support both the hospital and Operating Room. The student will learn about infection control, instrument reprocessing, decontamination, disinfection, and sterilization. All critical aspects of sterile processing will be covered to include applicable standards and regulations. This field is constantly evolving and those desiring to work in this profession must ensure that they stay abreast of the science behind the discipline. Restricted to Community Colleges campuses

**Prerequisite(s):** CCDE 110 N General Composition Placement exam scores, or specific course work.

### NA 104. Nursing Assistant Fundamentals 3 Credits (3)

This course prepares students for employment as a Nursing Assistant in a Long Term Care Facility. Theory and basic nursing care skills will be taught with an emphasis being placed on the psychosocial-cultural approach to client care. Students will learn communication skills, basic anatomy and physiology, growth and development, infection control, body mechanics, basic nutrition, client/resident elimination needs, the client/resident unit, vital signs, range of motion exercises, bed making, rehabilitation and restorative care, client admission and discharge, common health problems, dealing with death and dying, and basic medical terminology. NA 104 and NA 104L (laboratory) must be successfully completed with a C- or better in order to continue to NA 105 Nursing Assistant Clinical. NA 105 must also be successfully completed with a C- or better to be eligible to take the state certification competency examination. Attendance is required to meet the federal requirements for training hours and content prior to direct contact with a patient/resident and the state competency examination. Students must test out of all CCDE and CCDR courses and eligible to take ENGL 1110G to enroll in this course. Restricted to Community Colleges campuses only. Corequisite(s): NA 104 L.

### NA 104 L. Nursing Assistant Fundamentals Lab 1 Credit (3P)

This course prepares students for employment as a Nursing Assistant in a Long Term Care Facility. Students will learn and demonstrate personal care skills including bathing, grooming, dressing, toileting, assisting with eating and hydration, skin care, transfers and positioning. Students will also learn and demonstrate the use of assistive devices, and how to maintain resident safety, dignity and privacy. NA 104 & NA 104L must be successfully completed with a C- or greater in order to continue to NA 105 Clinical. NA 105 must be successfully completed with a C- or greater to be eligible to take the state certification competency examination. **Prerequisite(s)/Corequisite(s):** NA 104. Prerequisite(s): English COMPASS score of 35 or greater or CCDE 110N, and reading COMPASS score of 55 or greater or CCDR 105N. Restricted to Community Colleges campuses only.

### NA 105. Nursing Assistant Clinicals 4 Credits (3+3P)

Extension of basic fundamentals of personal care, including theory, skills and clinical experience leading to the certified Nursing Assistant Examination at the conclusion of the semester. Continuation of NA 104. Requires a C or better to pass. Restricted to: Community Colleges only. **Prerequisite(s):** C or better in NA 104 or consent of instructor.

#### NA 109. Phlebotomist Basic 4 Credits (2+4P)

This course provides the latest information, techniques, skills, and equipment for blood and specimen collection based on the standards of the Clinical and Laboratory Standards Institute, Needlestick Prevention Act, Joint Commission 2008 National Patient Safety Goals, OSHA and CDC. An advanced skills lab is included in the course to provide a 'hands-on' practice experience and a 30 hour practicum in a supervised work environment collecting blood and specimens on actual patients for laboratory tests. Attendance is mandatory. Prepares students for employment as a phlebotomist in health care settings. Requires a 'C' or better to pass. Upon successful completion of the course, student has the opportunity to test for National Healthcareer Certification. Consent of Instructor required.

**Prerequisite(s)/Corequisite(s):** BIOL 1130 or BIOL 2225. Restricted to Community Colleges campuses only.

### NA 110. Electrocardiogram Technician Basic 4 Credits (3+3P)

Prepares students for employment as an Electrocardiogram Technician. Includes basic theory of the cardiovascular system, cardiac rhythm interpretation, 12 lead ECG lead placement, and ECG equipment trouble shooting. The course includes an advanced skills laboratory for 'handson' practice and 16 hours of supervised clinical in the work environment assisting with ECG testing. Attendance is mandatory. Course requires a grade of 'C' or better to pass. Upon successful completion of course, student has the opportunity to test for National Healthcareer Certification. Restricted to Community Colleges campuses only. **Prerequisite(s):** BIOL 1130 OR BIOL 2210 & BIOL 2225.

### NA 111. Alzheimer/Dementia Care Focus 3 Credits (3)

Students will learn respectful care of Alzheimer/Dementia persons while ensuring their dignity, maximizing safe independence focusing on strengths and abilities.

**Prerequisite(s)/Corequisite(s):** NA 104 or NA 101. Restricted to: Community Colleges only.

### NA 113. Sterile Processing Practicum 5 Credits (1+4P)

This course will allow students to get hands on training in the Sterile Processing Department. They will perform critical functions learned in the Sterile Processing Technician course. They will apply principles of medical asepsis and infection control and by the end of the practicum be able to independently function in all work areas of the Sterile Processing Department. This field is constantly evolving and those desiring to work in this procession must ensure that they stay abreast of the science behind the discipline. Restricted to Community Colleges campuses **Prerequisite(s)/Corequisite(s):** NA 102. Prerequisite(s): CCDE 110 N.

### NA 115. Phlebotomist Technician

### 6 Credits (3+6P)

Basic theory and skills of phlebotomy following OSHA and Center for Disease Control guidelines. Prepares students for the requirements of testing for the ASCP certification exam and employment in a healthcare organization as a phlebotomist in licensed settings. Laboratory hours include infection control skills & practice, patient assessment & teaching, and practice in venipuncture. Clinical time includes clinical laboratory processes and operations, patient assessment, venipuncture, and exposure to clinical policies and procedures. Upon successful completion students are workforce ready.

**Prerequisite(s)/Corequisite(s):** OEEM 101. Restricted to Community Colleges campuses only.

### NA 204. Patient Care Technician

#### 4 Credits (3+3P)

This course will prepare Certified Nursing Assistants (CNAs) to work in the acute care setting through an expansion of their existing basic skill set. Students will acquire expanded acute care skills, critical thinking skills, and knowledge in caring for patients of all ages. Currently CNA certified. Restricted to Community Colleges campuses only. **Prerequisite(s):** (NA 104, NA 105, NA 109, NA 110, AHS 120, and (BIOL 1130 or (BIOL 2210 & BIOL 2225)). **Correquisite(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 1130 or (BIOL 2210 & BIOL 2225))) Currently CNA Certified. **Corequisite(s):** NA 204.

### NA 209. Phlebotomy Laboratory Technician

### 4 Credits (2+4P)

A continuation of NA 109, Phlebotomy Basic. This course furthers the experience, knowledge and skills of the phlebotomist by providing advanced specimen collection techniques, skills to assist with lab management, patient data processing, quality control measures, and customer service. Completion of thirty clinical hours and fifty successful venipunctures are required. Attendance in mandatory. Requires a final grade of 'C' or better to pass. Consent of Instructor required. Restricted to Community Colleges campuses

**Prerequisite(s)/Corequisite(s):** ENGL 1110G or ENGL 1110H or ENGL 1110M. Prerequisite(s): (BIOL 1130 or BIOL 2310 & BIOL 2225), and AHS 120, and NA 109.

### NA 210. Administrative Procedures for Medical Assistants 4 Credits (4)

This course will provides students with the administrative procedures needed for a medical assistant. Skills will include creating awelcoming environment, cultural considerations, office safety, opening and closing procedures, computer operation andmanagement, written and telephonic communications, financial procedures, patient scheduling, medical record management, andmedical insurance, billing, and coding. Restricted to Community Colleges campuses

**Prerequisite(s)/Corequisite(s):** NA 212. Prerequisite(s): MATH 1215, and ENGL 1110G, and AHS 120, and BIOL 1130 or BIOL 2225.

### NA 212. Medical Assistant Capstone Course 6 Credits (6)

This course provides the student with entry-level theory and limited 'hands-on' training in basic and routine clinical office tasks. The course will equip the Medical Assistant (MA) student with the competencies required to perform in a medical office under the direct supervision of a physician. The graduate will be able to assist the physician with physical exams, ECGs, phlebotomy, and minor surgical procedures. CNA Certification within the last 5 years.

Prerequisite(s): NA 105, NA 110, NA 109, AHS 120, BIOL 1130, BOT 208, HIT 228, HIT 248.

### NA 214. Medical Assistant Practicum

### 6 Credits (1+6P)

This course is the practicum for NA 212 Medical Assistant Fundamentals Capstone Course. Students will prepare for a career as a medical assistant in medical offices and clinics. During practicum students will observe and participate in 180 hours in a supervised work environment using knowledge and skills learned in NA 212. This course includes weekly post-practicum conferences with the instructor. The student will be evaluated by both the employer and the instructor. Requires a 'C' or better to pass. Upon successful completion the student may be eligible to test for National Certification. Students who have been CNA Certified within the last 5 years can use this to enroll into this course. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): NA 212. Prerequisite(s): NA 105, NA 110, NA 109, AHS 120, BIOL 1130, BOT 208, HIT 228, HIT 248. Restricted to Las Cruces campus only.

### NAV-NAVAJO (NAV)

### NAV 101. Introduction to Navajo Studies

### 3 Credits (3)

Covers geography, demography, institutions of modern Navajo society with historical overview. Restricted to: Community Colleges only.

### NAV 111. Elementary Navajo I

### 4 Credits (4)

Navajo for beginners with emphasis on speaking skills.

**Prerequisite:** not open to Navajo-speaking students except by consent of instructor.

### **NGEC-NATURAL GAS ENGINE COMP**

### NGEC 133. Natural Gas Engine Repair Technology 5 Credits (5)

This course will cover the engine fundamentals, cylinder head and valve trains, engine block, engine servicing, lubrication and cooling Systems. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

### NGEC 175. Natural Gas Compression Technology I 4 Credits (4)

This course delivers an introduction to the theory, application, rotary, and centrifugal natural gas compressor including operating principles, maintenance, and repair of the reciprocating, identification of the component parts and their functions, methods of balancing, and lubrication systems, and design characteristics. This course will also include calculations of gas flow, compressor sizing, rod loads, compressor analysis charts and horsepower ratings. In addition, this course will cover safety, precision measurement, use of the manuals, use of tools, and proper adjustments will be included with overhaul exercises. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

### NGEC 185. Natural Gas Compression Technology II 4 Credits (4)

This course delivers the principles of operation for natural gas engines and compressors. It includes process of startup and shutdown of natural gas compressor skid. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

Prerequisite(s): Grade of C or better in NGEC 175.

### NGEC 245. Natural Gas Engine Management and Control Technology 5 Credits (5)

This course delivers operational and application studies of Engine Management System Fundamentals, Sensors, Engine Inspection, and Engine Management Fault Investigation. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

### NGEC 246. Fuel and Emissions Technology

### 5 Credits (5)

This course delivers operational and application studies of fuel components and emissions control system. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

### NGEC 295. Special Topics

### 2 Credits (2)

Topics are to be announced in the Schedule of Classes. The topic and project are to be discussed and implemented between faculty member and student. Student gives presentation to class at the end of the term of study. All-Natural Gas Compression Technology classes in the NGEC Program must be completed or in progress before enrolling in this course. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

### **NURS-NURSING (NURS)**

### NURS 110. Independent Study

### 1 Credit (1)

This Freshman seminar provides an introduction to the university and its resources, an orientation to the pre-nursing curriculum, and overview of concepts for professional nursing practice. Emphasis is placed on exploring the nurse's role as an integral member of the healthcare team across multiple contexts and settings, and developing a professional identity. Consent of Instructor required.

### NURS 120. Introduction to Pharmacology 3 Credits (3)

General principles of pharmacology including methods of administration, effect on the body, interactions with other drugs, and classification of drugs. Focus on the health care provider's role in safe pharmacologic intervention. May be repeated up to 3 credits. Crosslisted with: HIT 120. Restricted to Community Colleges campuses only.

### NURS 130. Foundations of Pharmacology 3 Credits (3)

This course provides the nursing student with an introduction to the foundations of pharmacology including: science of drug action, principles of medication administration, accurate calculation of drug doses, medication therapy across the lifespan, application of medications to treat health alterations, normal and adverse responses by the client to medication therapy, medication safety, medication regulation, national patient safety goals, and appropriate nursing interventions to achieve the desired goals of medication therapy. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: Community Colleges only.

Corequisite(s): NURS 147 & NURS 149. Restricted to: NUR majors.

### NURS 134. Foundation of Nursing Skills and Assessment 3 Credits (1+6P)

This course provides nursing students with introductory nursing knowledge related to performance of nursing skills and assessment including: techniques of fundamental nursing care, basic and intermediate nursing skills, and foundational physical assessment techniques associated with care across the lifespan. Open to students who have been accepted into the nursing program. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

**Corequisite(s):** NURS 136 & NURS 137 or permission of the Program Director.

### NURS 136. Foundations of Nursing Practice 6 Credits (4+6P)

This course will introduce the nursing student to foundational theoretical concepts of professional nursing practice, the nursing process, and foundational nursing skills. It includes developmental concepts related to clients across the lifespan. Clinical experiences in the simulation lab, long-term care, the community, and rehabilitation settings will provide the student with the opportunity to apply learned skills to provide total care to meet needs of one adult client and to develop care planning skills related to actual problems. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only. **Corequisite(s):** NURS 134, NURS 137.

### NURS 137. Care of Geriatric Patient 3 Credits (3)

This course will introduce the nursing student to foundational concepts of age-appropriate/specific care of the older adult who represents the largest population of individuals placing demands on the healthcare system. It includes basic and complex concepts and issues related to care of the older client across the care continuum, provision of costeffective care in a resource sparse environment. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the nursing program to enroll in this course. Restricted to: NURS majors. Restricted to Community Colleges campuses only.

Corequisite(s): NURS 134 & NURS 136.

### NURS 140. Pathophysiology for Allied Health Professionals 3 Credits (3)

Introduction to the nature of disease and its effect on body systems. Deals with the disease processes affecting the human body via an integrated approach to specific disease entities. Includes a review of normal functions of the appropriate body systems. Diseases are studied in relationship to their etiology, pathology, physical signs and symptoms, diagnostic procedures, complication, treatment modalities, and prognosis. Restricted to Allied Health and Health Information Technology majors. Restricted to:Community Colleges only.

### NURS 146. Common Health Deviations 6 Credits (4+6P)

Common health deviations and the manner by which they alter various body functions are explored. The role of the licensed practical nurse in assisting clients with common health deviations is presented. Ethical and legal implications and the role of the practical nurse are also considered. The licensed practical nursing student will utilize the application of knowledge to client care situation both in the subacute and acute care settings. The nursing process is presented as guide for coordinating client care. Grade of C or better. May be repeated up to 6 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only. **Prerequisite(s):** NURS 153, NURS 156, NURS 154, NURS 157, and NURS 210 or consent of program director.

#### NURS 147. Adult Health I 6 Credits (4+6P)

This course focuses on application of the nursing process and theoretical concepts of care for adults with commonly occurring health problems. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to continue development of: prioritization skills, proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, care planning skills related to patient actual, psychosocial, and potential problems in the delivery of total nursing care to meet needs of one adult client. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NUR majors. Restricted to Community Colleges campuses only. **Corequisite(s):** NURS 130, NURS 147 lab, & NURS 149.

### NURS 149. Mental Health Nursing

### 3 Credits (2+3P)

This course will allow the nursing student to develop skills necessary to provide nursing care for clients with mental health problems in various health care settings including: common mental health disorders, psychosocial dysfunction, psychosocial safety/substance abuse issues, violence, suicide, restraints, developmental age related pathophysiology, psychopharmacology, cultural/religious considerations, grief/loss, promotion of mental health, and therapeutic communication. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to develop ability to develop: proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, care planning skills related to patient actual, psychosocial, and potential problems in the delivery of total nursing care to meet needs of one client across the life span with acute/chronic mental health needs. Students must be concurrently enrolled in both the lecture and lab sections of this course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program in order to enroll in the course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 130, NURS 147, & NURS 149L.

### NURS 150. Medical Terminology

#### 3 Credits (3)

Understanding of the basic elements of medical words. Use of medical abbreviations. Same as OEHO 120 and BOT 150. May be repeated up to 3 credits. Crosslisted with: BOT 150, AHS 120 and HIT 150.

### NURS 153. Medication and Dosage Calculation

#### 1 Credit (1)

Techniques of dosage calculation for medication and fluid administration. RR applicable. Students must meet NMSU basic skills requirement in mathematics to enroll in this course. **Corequisite(s):** NURS 156 and NURS 154.

#### NURS 154. Physical Assessment

#### 2 Credits (2)

Beginning techniques of physical assessment by systems will be presented using the nursing process as a guide for providing safe client centered care throughout the life span. Grade of C or better is required. May be repeated up to 2 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only. **Prerequisite(s):** BIOL 1130 or BIOL 2210. **Corequisite(s):** NURS 153,NURS 156.

#### NURS 155. Special Topics

#### 1-4 Credits

Specific subjects to be announced in the Schedule of Classes.

### NURS 156. Basic Nursing Theory and Practice 6 Credits (4+6P)

Introduction to the nursing profession and the beginning skills of nursing practice as it relates to normalcy. The nursing process is presented as a means of guiding the student in providing safe client centered care. Ethical and legal aspects of nursing practice are also included. Basic clinical nursing skills will be presented and practiced in the nursing lab. The student will perform these skills with clients in an actual health care setting. May be repeated up to 6 credits. Consent of Program Director requires. Restricted to: NURSING majors. Restricted to Carlsbad campus only.

Corequisite(s): NURS 153, NURS 154.

### NURS 157. Maternal/Child Health Deviations 8 Credits (6+6P)

The concepts and principles of nursing care of the family from conception to adolescence. Utilizing the nursing process, the student provides safe client centered care to diverse clients and families. Theoretical instruction is applied to client care situation. Students collaborate with clients, families and the interdisciplinary team in meeting health care needs. Experiences may occur in any of the regional health care facilities. Grade of C or better required. May be repeated up to 8 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 156, NURS 153, and NURS 154. Corequisite(s): NURS 210.

### NURS 201. Special Topics

#### 1-4 Credits

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 10 credits. Restricted to: Community Colleges only.

Prerequisite: admission to the nursing program.

#### NURS 209. Independent Study

### 1-4 Credits

Individual studies to meet identified student needs. May be repeated for a maximum of 10 credits. Restricted to: Community Colleges only. **Prerequisite:** admission to the nursing program.

### NURS 210. Pharmacological Requisites of the Childbearing Family 1 Credit (1)

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care will be discussed focusing on medications commonly utilized with the childbearing family. Medication classes to be discussed include labor and delivery, analgesic, vitamins, respiratory, gynecological, endocrine, and anti-microbial/anti-infective drugs. Grade of C or better required. Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 2210 and BIOL 2225 and NURS 153, NURS 154 and NURS 156.

Corequisite(s): NURS 157.

### NURS 211. Pharmacological Requisites of Simple Health Deviations 1 Credit (1)

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care are addressed focusing on medications related to the psychiatric, gastrointestinal, musculoskeletal, gynecological, hematological, and anti-neoplastic client. Grade of C or better required. Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 2210 and BIOL 2225 and NURS 153,NURS 154, NURS 156, NURS 157 and NURS 210.

Corequisite(s): NURS 246 and NURS 258.

### NURS 212. Pharmacological Requisites of Complex Health Deviations 1 Credit (1)

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care is examined focusing on medications related to complex health deviations. Drug classes to be discussed include cardiovascular, renal, endocrine, and neurological. Grade of C or better required. Restricted to: Carlsbad campus only.

**Prerequisite(s):** BIOL 2210 and BIOL 2225 , and NURS 153, NURS 154, NURS 156, NURS 157, NURS 246, NURS 258, NURS 210 and NURS 211. **Corequisite(s):** NURS 256 and NURS 260.

#### NURS 224. Maternal Child Nursing 5 Credits (4+3P)

This course provides the intermediate nursing student with an in-depth review of care of the childbearing woman, family structures and roles, and nursing care of the child from birth through adolescence. Emphasis includes the care of pre-partum, intra-partum and postpartum clients, the neonate and health deviations in pediatric clients. Clinical experiences in the simulation lab, the community, and acute care settings will provide the student with the opportunity to apply learned skills to provide total care to meet needs of up to two adult, neonatal, or pediatric clients and to apply care planning skills related to actual, psychosocial and potential problems. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only. **Corequisite(s):** NURS 235, & NURS 236.

NURS 226. Adult Health II 6 Credits (4+6P)

This course focuses on application of nursing process and theoretical concepts of care for adults with complex health alterations. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to apply. prioritization skills, maintain proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, and care planning skills related to patient actual, psychosocial, and potential problems in the delivery of nursing care to meet needs of three adult clients. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only. **Corequisite(s):** NURS 224 & NURS 235.

#### NURS 235. Nursing Leadership and Management 1 Credit (1)

This course introduces the intermediate nursing student to professional practice principles of nursing leadership and management including: health policy and politics, fiscal management & budgeting, conflict management, decision making, interdisciplinary practice, working with teams, roles in disaster planning and management, application of standards of care to risk management, organization of care delivery, health care systems, processes, and practice environments. May be repeated up to 1 credits. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to Community Colleges campuses only.

Corequisite(s): NURS 224, NURS 226.

### NURS 236. Nursing Preceptorship - Adult Health III 6 Credits (2+12P)

This course is the final course involving care of the patient with acute or chronic illness. It focuses on care of patients with complex or multisystem problems allowing the graduating nursing student to discuss and apply all the skills learned in previous nursing courses. After successfully passing the HESI exam, students have clinical practice with preceptor in various health care settings. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to: organize care of a group of clients, maintain proficiency in performance of nursing skills, collaborate with clients, families, peers and health care team members, and support care planning skills related to patient actual, psychosocial, and potential problems in the delivery of nursing care to meet needs of the preceptors group of clients. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program and have successfully completed all level 1, 2 and 3 nursing courses may enroll in this course. Clinical may include inpatient or outpatient care, days, evenings, nights, or weekend experiences. Students are required to work the preceptors assigned schedule. NCLEX Review must be done concurrently. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 201.

### NURS 246. Health Deviations I 7 Credits (4+9P)

Introduction to medical/surgical clients, whose health care needs are routine and predictable. Focus is on simple health deviations, including concepts relative to health promotion and maintenance. The nursing process is utilized to provide evidenced based, safe client centered care. Students are expected to apply clinical judgment, communicate and collaborate with clients and the interdisciplinary team in providing care for a group of two to three clients. Grade of C or better required. May be repeated up to 7 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, NURS 156, NURS 154, NURS 157 and NURS 210.

Corequisite(s): NURS 211, NURS 258.

#### NURS 256. Health Deviations II 8 Credits (4+12P)

Concepts and principles applied to clients with complex health deviations. Building upon knowledge gained in NURS 246, focus will be on acutely ill clients. The nursing process continues to serve as a guide to provide safe, client centered care. The student collaborates with the interdisciplinary team in all aspects of client care. Student experiences the role of the staff nurse under the guidance and direction of the nursing instructor. Grade of C or better required. May be repeated up to 8 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only. **Prerequisite(s):** NURS 153, NURS 154, NURS 156, NURS 157, NURS 210, NURS 211, NURS 246, and NURS 258.

Corequisite(s): NURS 212, NURS 260.

### NURS 258. Psychosocial Requisites: A Deficit Approach 3 Credits (2+3P)

Nursing theory and practice as it relates to the care of the client experiencing psychosocial health deviations. The role of the nurse is discussed along with the ethical and legal aspects of care for the client with psychosocial disorders. Building upon the communication skills of listening and responding, the student develops the therapeutic skills of interpersonal relationships. Grade of C or better is required. May be repeated up to 3 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, NURS 154, NURS 156, NURS 157, NURS 210, and NURS 246.

Corequisite(s): NURS 211,NURS 246.

### NURS 260. Management of Patients with Health Deviations 2 Credits (2)

A capstone course to the nursing program in which principles in management and delegation to less prepared personnel is explored. A review of leadership roles, legal issues, quality initiatives, informatics and scope of practice is included. Preparation for the NCLEX is an integral portion of the course. Grade of C or better is required. May be repeated up to 2 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, NURS 154, NURS 156, NURS 157, NURS 210, NURS 211, NURS 246, and NURS 258.

Corequisite(s): NURS 212,NURS 256.

### **NUTR-NUTRITION**

### NUTR 2110. Human Nutrition

### 3 Credits (3)

This course provides an overview of nutrients, including requirements, digestion, absorption, transport, function in the body and food sources. Dietary guidelines intended to promote long-term health are stressed.

### NUTR 2120. Seminar I - Becoming a Nutrition Professional 1 Credit (1)

This course will introduce students to the field experience, careers, and professions in nutrition. This course is required for students pursuing a Didactic Program in Dietetics verification statement. May be repeated up to 1 credits. Consent of Instructor required. Restricted to: HNDS majors.

### OATS-OFFICE ADMINISTRATION TECHNOLOGY SYSTEMS

### OATS 101. Keyboarding Basics

### 3 Credits (2+2P)

Covers the skills necessary to touch type on the computer keyboard using correct techniques. This includes the development of speed, accuracy, and formatting of basic business documents. May be repeated up to 3 credits. Restricted to Community Colleges campuses

### OATS 102. Keyboarding: Document Formatting

### 3 Credits (2+2P)

Designed to improve keyboarding speed and accuracy; introduce formats of letters, tables and reports. A speed and accuracy competency requirement must be met.

Prerequisite: OATS 101 or consent of instructor.

### OATS 105. Business English 3 Credits (3)

Training and application of the fundamentals of basic grammar, capitalization, punctuation, basic writing, sentence structure, and editing skills. May be repeated up to 3 credits. Restricted to Community Colleges campuses

### OATS 106. Business Mathematics

### 3 Credits (2+2P)

Mathematical applications for business. May be repeated up to 3 credits. Restricted to Community Colleges campuses

**Prerequisite(s):** CCDM 103 N or adequate score on math placement exam.

### OATS 110. Records Management

#### 3 Credits (3)

Principles, methods and procedures for the selection, operation and control of manual and automated records systems.

### OATS 120. Accounting Procedures I 3 Credits (2+2P)

Business accounting principles and procedures. Use of special journals, cash control, and merchandising concepts. Reports for sole proprietorships.

### OATS 121. Accounting Procedures II

### 3 Credits (2+2P)

Continuation of OATS 120, emphasizing accounting principles and procedures for notes and interest, depreciation, partnerships and corporations, cash flow and financial statement analysis. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 120 or ACCT 2110.

### OATS 140. Payroll Accounting

### 3 Credits (2+2P)

Payroll procedures including payroll tax forms and deposits. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ACCT 2110 or OATS 120.

### OATS 150. Medical Terminology

### 3 Credits (3)

Understanding of the basic elements of medical words. Use of medical abbreviations. Same as NURS 150 and OEHO 120. May be repeated up to 3 credits. Crosslisted with: NURS 150, AHS 120 and HIT 150. Restricted to Community Colleges campuses only.

### OATS 169. Spanish Grammar for Business Administration 3 Credits (3)

Introductory course in Spanish grammar and practical business terms required for the proper application of fundamental oral and written business communication skills for Spanish speakers in the field of business administration. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Spanish-speaking ability and computer keyboarding ability.

#### OATS 170. Office Communications in Spanish I 3 Credits (3)

### Develop oral and written communications skills of native or near-native speakers of Spanish. The student will learn basic letter writing skills, customer service techniques, and telephone etiquette in Spanish.

Spanish speaking ability is required to enroll in this course. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses

### OATS 171. Office Communications in Spanish II 3 Credits (3)

Develop oral and written communications skills of native or nearnative speakers of Spanish. Emphasis placed on learning the office assistant's role within the office environment. Compose complex business correspondence and learn to make international travel arrangements. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses **Prerequisite(s):** OATS 170, Spanish speaking ability.

### OATS 191. Taking Minutes & Proofreading 3 Credits (3)

Preparation and practice producing minutes suited for different meeting types and purposes. Provides strategies to prepare for meetings, to record proceedings, and to transcribe minutes while incorporating proofreading skills practice. Topics include legal requirements, meeting types, minute formats, and duties/expectations of the minute taker and the meeting chair. Graded: S/U. May be repeated up to 3 credits. Restricted to Community Colleges campuses

### OATS 202. Keyboarding Document Production 3 Credits (2+2P)

Further development of keyboarding speed and accuracy. Production of complex letters, memos, tables, reports and business forms. A speed and accuracy competency requirement must be met. Restricted to Community Colleges campuses

### OATS 203. Office Equipment and Procedures I 3 Credits (2+2P)

Office organization, telephone techniques, equipment and supplies, handling meetings, human relations, mail procedures, and travel. May be repeated up to 3 credits. Restricted to Community Colleges campuses

### OATS 205. Accounting Software I 3 Credits (2+2P)

Introduction to accounting software. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Working knowledge of computers and accounting or consent of instructor.

### OATS 206. Accounting Software II

### 3 Credits (2+2P)

Accounting software and office applications. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** OATS 121 or OATS 215.

### OATS 207. Machine Transcription

### 3 Credits (2+2P)

Creating office documents using transcribing equipment and word processing software. Emphasis on proofreading, editing and grammar. May be repeated up to 3 credits. Restricted to Community Colleges campuses

Prerequisite(s): BOT 105.

### OATS 208. Medical Office Procedures

### 3 Credits (2+2P)

Current computerized and traditional administrative medical office procedures will be introduced. Practical knowledge on managing required record keeping in a medical office environment will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s):** HIT 150 or AHS 120, and computer keyboarding ability or consent of instructor.

### OATS 209. Business and Technical Communications 3 Credits (3)

Effective written communication skills and techniques for career success in the work place. Composition of letters, memos, short reports, forms, and proposals, and technical descriptions and directions.

**Prerequisites:** ENGL 1110G and computer keyboarding ability or consent of instructor.

### OATS 211. Information Processing I

### 3 Credits (2+2P)

Defining and applying fundamental information processing concepts and techniques using the current version of leading software. May be repeated up to 6 credits. Restricted to Community Colleges campuses

### OATS 213. Word Processing I

### 3 Credits (2+2P)

Operation and function of a word processor. Specific equipment to be announced in the Schedule of Classes.

Prerequisite: OATS 101 or keyboarding proficiency.

### OATS 214. Word Processing II

#### 3 Credits (2+2P)

Advanced operation and functions of a word processor. Specific equipment to be announced in the Schedule of Classes. **Prerequisite:** OATS 213 or consent of instructor.

### **OATS 215. Spreadsheet Applications**

#### 1-3 Credits

Use of spreadsheets to include graphics and business applications. Same as OECS 215. May be repeated under different subtitles listed in the Schedule of Classes.

### **OATS 217. Powerpoint Presentation**

#### 3 Credits (3)

Comprehensive, hands-on approach to learning and applying basic and advanced features of PowerPoint. These include text enhancements, objects, fills, colors, animation, charts, sound, video, and hyperlinks. Students demonstrate appropriate audience and communication tools to deliver presentations.

**Prerequisites:** OATS 211 or ability to demonstrate keyboarding and Windows proficiency.

### OATS 218. Information Processing II

#### 3 Credits (2+2P)

Advanced information processing techniques using current version of leading software. May be repeated for a maximum of 6 credits. **Prerequisite:** OATS 211 or consent of instructor.

### OATS 220. Internship in Business Office Technology 2 Credits (2)

Experience in a supervised office position. Student must work at least eight hours per week. May be repeated for a maximum of 4 credits. **Prerequisites:** sophomore standing and consent of instructor.

### OATS 221. Internship I

#### 1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. C- or better in the course is required. Consent of Instructor required. Restricted to: BOT,HIT. majors. Restricted to Community Colleges campuses

### OATS 222. Internship II

### 1-3 Credits

Continuation of OATS 221. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: OATS & HIT majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. **Prerequisite(s):** OATS 221 and consent of instructor.

### OATS 223. Medical Transcription I

### 3 Credits (2+2P)

Concepts in medical transcription are introduced on how to produce a variety of reports required in a medical office or facility utilizing accurate medical terminology, spelling, grammar, and document formatting. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 150 or AHS 120 and HIT 158 and OATS 209.

### OATS 228. Medical Insurance Billing

### 3 Credits (2+2P)

Comprehensive overview of the insurance concepts and applications required for successfully and accurately completing and submitting insurance claims and reimbursement processes for various insurance carriers, both private and government, will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s):** HIT 150 or AHS 120.

### OATS 233. Advanced Medical Transcription 3 Credits (2+2P)

Builds upon the concepts introduced in Medical Transcription I providing greater understanding of how to produce advanced reports dictated by physicians with increasing speed and accuracy. Emphasis will be on proofreading and editing of operative reports, patient history and physicals, office notes, labor and delivery reports, consultation reports, discharge summaries, and other medical reports. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 223 and HIT 130.

### OATS 239. Personal Development

### 3 Credits (3)

Development of a marketable, employable office systems person, to include interview, voice, manners, and apparel.

### OATS 240. Introduction to Individual Taxation

### 3 Credits (3)

Overview of Individual Federal Taxation; awareness of tax problems pitfalls and planning opportunities; focus on individual personal financial concerns and tax planning. One semester of accounting principles/ procedures is recommended.

### OATS 241. Auditing and Business Issues 3 Credits (3)

Introduction to basic auditing concepts, the purpose for the auditing process, and requirements of persons assisting with the audit process. The course will also deal with issues of business law including contracts, sales, torts, strict liability, and business ethics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** OATS 120 or ACCT 2110.

### OATS 244. Tax Preparation

### 3 Credits (3)

Introduces basic federal and state tax codes for preparing individual income tax returns. Emphasis on use of tax software. **Prerequisite:** keyboarding proficiency.

#### OATS 250. Electronic Office Systems 3 Credits (2+2P)

Management of the electronic office. Office use of computers, printers, fax machines, copiers, and scanner concepts will be covered. **Prerequisite:** OATS 211.

### OATS 255. Special Topics

### 1-4 Credits

Specific subjects to be announced in the Schedule of Classes.

### OATS 260. Bookkeeping Simulation Capstone 3 Credits (2+2P)

Refines the professional and technical skills students have learned while completing the Bookkeeping Assistant Option curriculum by demonstrating how coursework ties together. Designed as a bookkeeping assistant capstone course.

**Prerequisite(s):** OATS 121 or ACCT 2110, OATS 140, OATS 205, and OATS 244, or consent of instructor.

### OATS 270. Office Administration Technology Capstone 3 Credits (2+2P)

Refines professional skills learned in the BOT program and ties all BOT coursework together. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses **Prerequisite(s):** OATS 102 or OATS 129; and OATS 120; and OAT S 209 or ENGL 2210G; and OATS 211 or OECS 211.

### OEBM-BIOMEDICAL TECHNOLOGY (OEBM)

### OEBM 140. Applied Human Biology for Biomedical Technology 3 Credits (3)

Essential human biology, anatomy, physiology and medical terminology for biomedical equipment technicians. Focus on the vocabulary necessary for effective communication in the hospital environment as part of the health care team. Restricted to: Community Colleges only.

### OEBM 141. Medical Electronics and Safety in Healthcare 3 Credits (3)

Introduction to the biomedical equipment technology field. Operation of common biomedical equipment to include pressure and temperature systems, infusion devices, patient monitors, and other physiologic and patient systems. Hospital safety and health regulations explained. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEBM 140.

### OEBM 200. Biomedical Internship

### 1-4 Credits (3-12P)

Practice working in industry as a biomedical electronics technologist. Students work on a variety of medical equipment and job tasks. An employer evaluation, student report, and a minimum of 100 work hours are required. May be repeated up to 8 credits. Consent of Instructor required. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEBM 140 and OEBM 141.

### OEBM 211. CBET Exam Preparation

### 1 Credit (1)

An overview of the Certified Biomedical Equipment Technician exam. Topics include anatomy and physiology, electronics principles, safety issues, equipment operation, and equipment troubleshooting. **Prerequisite(s)/Corequisite(s):** OEBM 241 AND OEBM 240. Restricted to Community Colleges campuses only.

### OEBM 240. Medical Imaging Systems 3 Credits (3)

The fundamentals of diagnostic radiography equipment will be explored. Principles of an x-ray system will be explained including the x-ray generation, image formation and film processing. Focus will be on both safety and quality. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEBM 140.

### OEBM 241. Advanced Medical Electronics

### 3 Credits (3+1P)

Advanced study in biomedical equipment to include cardiovascular, pulmonary, telemetry and other critical life support systems. Restricted to Community Colleges campuses only.

Prerequisite(s): OEBM 141.

# OECS-COMPUTER TECHNOLOGY (OECS)

### **OECS 101. Computer Basics**

1 Credit (1)

Hands-on instruction to introduce computer use and commonly used software. Graded S/U.

### OECS 105. Introduction to Information Technology 3 Credits (3)

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communication, data analysis, information management and 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 (3)

Installation, configuration, and use of Linux/Unix operating system software and utilities including hardware management, file management, use of command line, and scripting. Restricted to: Community Colleges only.

### **OECS 140. Introduction to Game Production Industry**

### 1-3 Credits (1-3)

Students explore the business behind game production, understanding how game companies are organized and funded, positions within the game industry, and what skills game producers need. Restricted to Community Colleges campuses only.

### OECS 141. Introduction to Interactive Game Programming 1-3 Credits (1-3)

This introductory programming class reviews the basics of programming, including the object-oriented approach. Students will de-construct existing games, develop their own code, and gain an appreciation for coding strategies. May be repeated for a maximum of 6 credits. Restricted to Community Colleges campuses only.

#### OECS 145. Mobile Application Development 1-3 Credits (1-3)

Introduction to elements of mobile application coding including concepts, design strategies, tools needed to create, test and deploy applications for mobile devices. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

### OECS 155. Special Topics - Introductory Computer Technology 0.5-4 Credits (.5-4)

Topics to be announced in the Schedule of Classes. May be repeated up to 8 credits.

### OECS 185. PC Maintenance and Repair I

#### 1-3 Credits

Introduction to most common types of PC configurations, installations, and failures. This course will explore troubleshooting skills for maintaining and repairing common hardware and software related problems. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### OECS 192. C++ Programming I

#### 3 Credits (3)

Development of skills in programming using the C++ programming language. Restricted to: Community Colleges only.

### OECS 195. Java Programming I

### 1-3 Credits

Developing of skills in programming using the Java programming language. Restricted to: Community Colleges only.

### **OECS 200. Accounting on Microcomputers**

#### 3 Credits (3)

Fundamental accounting principles using popular microcomputer soft ware to include G/L, A/R, A/P, purchase order, billing, inventory, and forecasting modules.

Prerequisite: ACCT 2110 or OATS 121.

### OECS 204. Linux Operating System

#### 1-3 Credits

Install and configure the Linux operating system on X86 systems. Covers issues involved in maintaining operating system, networking, creating and managing users, and installing and updating software. General procedures for working with operating system includes maintaining disk space, preserving system security, and other related topics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

### OECS 205. Advanced Operating Systems: Administration 3 Credits (3)

Examines operating systems designed for PC, minicomputers and mainframes. Covers maintaining operating systems, creating and managing users, and installing and updating software. General procedures for working with operating systems will include maintaining disk space, preserving system security, providing mail services, among other topics. May be repeated for a maximum of 6 credits. **Prerequisite:** OECS 128.

### OECS 207. Windows

### 0.5-3 Credits

Covers local installation, configuration of core local services, managing users, and the general local management and maintenance of Windows workstations. May be repeated up to 6 credits.

Prerequisite(s)/Corequisite(s): OECS 185. Restricted to Community Colleges campuses only.

### **OECS 208. Internet Applications**

### 1-3 Credits

Survey of the Internet to include e-mail, file transfer, current search techniques, the World Wide Web and basic Web page development. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

### **OECS 209. Computer Graphic Arts**

### 1-3 Credits

Basic graphics composition using computer programs to include editing and manipulating graphic images, clip-art, and printing of pictures. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes.

Prerequisite: OECS 105, BCIS 1110, or OECS 101.

#### OECS 211. Word Processing Applications 1-3 Credits

Basic word processing to include composing, editing, formatting, and printing of documents. May be repeated under different subtitles listed in the Schedule of Classes for a maximum of 6 credits. **Prerequisites:** BCIS 1110 or OECS 105.

### **OECS 215. Spreadsheet Applications**

#### 1-3 Credits

Use of spreadsheets to include graphics and business applications. May be repeated for a maximum of 6 credits. **Prerequisites:** BCIS 1110 or OECS 105.

#### OECS 216. Programming for the Web

#### 3 Credits (3)

Designing web-based applications using appropriate programming language(s) such as, but not limited to HTML, PHP, MySQL, SQL, Java, Perl, C or C++. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): One semester of any programming course.

### **OECS 220. Database Application and Design**

#### 1-3 Credits

Creating, sorting, and searching of single and multifile databases to include report generation and programming database commands. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes. Restricted to: Community Colleges only. **Prerequisite(s):** BCIS 1110 OR 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. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. **Prerequisite(s):** Consent of instructor.

OECS 222. Internship II

#### 1-3 Credits

Continuation of OECS 221. Each credit requires specified number of hours of on-the-job work experience. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. **Prerequisite(s):** OECS 221 and consent of instructor.

### OECS 227. Computer Applications for Technicians 3 Credits (3)

Computer applications for service technicians in various disciplines. Hardware and software applications explored. Includes operating systems, high level programming, and networking hardware and software.

### OECS 230. Data Communications and Networks I 1-3 Credits

Definition of data communication; survey of hardware applications and teleprocessor software; examination and design of networks. May be repeated for a maximum of 6 credits. **Prerequisite:** OECS 185.

### OECS 231. Data Communications and Networks II 1-3 Credits

Installation and application of popular microcomputer network software. May be repeated for a maximum of 6 credits. **Prerequisite:** OECS 230.

### OECS 234. Linux Server

#### 3-4 Credits (3-4)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Linux Server(s). It provides in-depth, hands-on training for planning, implementation, management and support of Linux networking services. May be repeated up to 8 credits.

**Prerequisite(s)/Corequisite(s):** OECS 204. Restricted to: OECS majors. Restricted to Community Colleges campuses only.

#### OECS 235. Structured Query Language (SQL) 1-3 Credits

Installation, configuration, administration, and troubleshooting of SQL client/server database management system. May be repeated up to 3 credits.

**Prerequisite(s)/Corequisite(s):** OECS 220. Restricted to Community Colleges campuses only.

### OECS 237. Windows Server

#### 3-4 Credits (3-4)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Microsoft Windows Server Active Directory Domain Services in medium to large businesses. It provides in-depth, hands-on training for Information Technology (IT) professionals responsible for the planning, implementation, management, and support of Windows Active Directory services. May be repeated up to 4 credits.

**Prerequisite(s)/Corequisite(s):** OECS 207. Restricted to Community Colleges campuses only.

#### OECS 245. Game Programming I

#### 3 Credits (3)

Development of programming skills for games and animation using current programming languages and tools. May be repeated for a maximum of 6 credits.

Prerequisite: consent of instructor.

### OECS 246. Game Programming II

#### 3 Credits (3)

Continuation of OECS 245. May be repeated for a maximum of 6 credits. **Prerequisite:** OECS 245.

### OECS 250. Systems Analysis and Design I 3 Credits (3)

Analysis, configuration, design and testing of organizations' work flow as it relates to hardware, software, data, procedures and personnel. Systems Life Cycle approach matching end users' needs to feasible financial, technical and operational solutions. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 220.

### **OECS 255. Special Topics**

#### 1-4 Credits

Topics to be announced in the Schedule of Classes.

#### OECS 260. Hypertext Markup Language (HTML)

#### 1-3 Credits

Coverage of HTML as used for web-page development for Internet and Intranet. Text manipulation, graphics, hypertext links, lists, and tables. May be repeated for a maximum or 3 credits. **Prerequisite:** BCIS 1110 or OECS 105.

#### **OECS 261. Introduction to Networks**

#### 3-4 Credits (3-4)

Introduction to networking principles including the practical and conceptual skills for understanding basic networking, planning and designing networks, implementing IP addressing schemes, examining the OSI and TCP/IP layers, and performing basic configurations for routers and switches. Aligns to the first course of the Cisco Networking Academy CCNA curriculum. Restricted to Community Colleges campuses only.

### OECS 262. Essentials of Routing and Switching

#### 3-4 Credits (3-4)

Examination of the architecture, components, and operations of routers and switches in a small network. Student will learn how to configure, verify and troubleshoot: routers and switches, static routing, default routing, VLANs, and ACLs. Aligns to the second course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits. **Prerequisite(s)/Corequisite(s):** OECS 261. Restricted to Community Colleges campuses only.

#### **OECS 263. Network Fundamentals**

#### 3-4 Credits (3-4)

Fundamentals of networking architecture, components, and operations including practical and conceptual skills using routers and switches. Student will learn how to configure, verify and troubleshoot static routing, default routing, VLANs, and ACLs. This course aligns to the third course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits.

**Prerequisite(s)/Corequisite(s):** OECS 262. Restricted to Community Colleges campuses only.

#### **OECS 264. Network Routing Protocols**

#### 3-4 Credits (3-4)

Fundamentals of routing protocols for troubleshooting advanced network operations. Covers common networking issues such as RIP, OSPF, and EIGRP for IPv4 and IPv6 networks. This course aligns to the fourth course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits.

**Prerequisite(s)/Corequisite(s):** OECS 263. Restricted to Community Colleges campuses only.

### OECS 269. Network Security 3-4 Credits (3-4)

Fundamentals of design and implementation of network security solutions that will reduce the risk of system vulnerability. May be repeated up to 8 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 204 or OECS 207 or OECS 261 or consent of instructor.

### OECS 275. PC Maintenance and Repair II

### 1-3 Credits

Continuation of OECS 185. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 185.

#### OECS 280. Desktop Publishing I

### 3 Credits (3)

Design and production of publication materials to fill the needs of business communities, using a microcomputer. May be repeated for a maximum of 6 credits. Same as OATS 280. **Prerequisites:** either BCIS 1110. OECS 105.

OECS 290. Computer Technology Capstone 1-3 Credits

Refines skills learned in the OECS program. Culminates in a review and practice of advanced software applications. May be repeated up to 3 credits. Restricted to: OECS & OECT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): (OECS 125, OECS 128, OECS 207, OR OECS 203) AND (OECS 185 OR E T 283).

### OECS 299. Independent Study

#### 1-3 Credits

Specific subjects to be determined based on need. Restricted to: Community Colleges only.

### **OEEM- PARAMEDIC (OEEM)**

### OEEM 101. CPR for the Health Care Professional

### 1 Credit (1)

Students learn identification and response to airway and circulation emergencies, including use of a SAED and accessing the EMS system. This course is taught using the American Heart Association guidelines for course completion. Required: grade of C or better.

### OEEM 103. Heartsaver First Aid/CPR 1 Credit (1)

Students learn how to identify and respond to airway, circulation and basic first aid emergencies, to include using a SAED and accessing the EMS system. This course is intended for students who are not Allied Health Majors and utilizes the American Heart Association guidelines for course completion. Restricted to: Community Colleges only.

### OEEM 106. Advanced First Aid

#### 2 Credits (2)

Theory and advanced first aid skills taught emphasizing recognition and providing care for injury or sudden illness until professional medical help arrives. Course meets and/or exceeds the Red Cross or National Safety Council standards. Corequisite(s): OEEM 101

### OEEM 115. First Responder Prehospital Professional 3 Credits (2+3P)

Provides training in prehospital medical and traumatic emergencies. Consent of instructor required. Requires a C or better to pass. Restricted to majors.

Corequisite(s): OEEM 101.

### OEEM 120. Emergency Medical Technician Basic 6 Credits (6)

EMT-Basic skills to include care of soft tissue and muscular/skeletal injuries, circulatory, nervous, general medical and respiratory emergencies. Requires a 'C' or better to pass. May be repeated up to 6 credits. Consent of Instructor required.

Corequisite(s): OEEM 101, OEEM 120L, OEEM 121.

**Prerequisite(s)/Corequisite(s):** OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

### OEEM 120 L. Emergency Medical Technician Basic Lab 2 Credits (6P)

EMT-Basic skills development with emphasis on assessment, skills competency and team-work in patient care in the prehospital setting. May be repeated up to 2 credits.

Corequisite(s): OEEM 101, OEEM 120, OEEM 121.

**Prerequisite(s)/Corequisite(s):** OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

#### OEEM 121. Emergency Medical Technician Basic Field/Clinical 1 Credit (3P)

Covers the patient care experience provided through assigned shifts in the hospital and/or ambulance setting. Requires a 'C' or better to pass. May be repeated up to 1 credits. Consent of Instructor required. **Prerequisite(s)/Corequisite(s)**: OEEM 101, OEEM 120, OEEM 120L OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

### OEEM 122. Emergency Medical Technician Basic Advanced Field/ Internship

### 2 Credits (6P)

Expanded patient care experience provided through assigned shifts in the hospital and/or ambulance setting. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Current EMT-basic license and consent of instructor.

### OEEM 150. Emergency Medical Technician Intermediate 5 Credits (5)

Theory of the roles, responsibilities and scope of practice of the EMT-Intermediate. Assessment and management of respiratory, cardiac, trauma, environmental, behavior, reproduction, and childhood emergencies. May be repeated up to 5 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Current EMT-basic license, pretest and consent of instructor.

### OEEM 150 L. Emergency Medical Technician Intermediate Lab 2 Credits (6P)

EMT-Intermediate skills development with an emphasis on assessment, skills competency, and team work in patient care in the prehospital setting. Requires a C or better to pass.

**Prerequisite(s)/Corequisite(s):** OEEM 150,OEEM 151. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

### OEEM 151. Emergency Medical Technician Intermediate Field/Clinical 2 Credits (6P)

Patient care experience provided through assigned shifts in the hospital and/or ambulance setting.

**Prerequisite(s)/Corequisite(s):** OEEM 150, OEEM 150 L. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

### OEEM 153. Introduction to Anatomy and Physiology for the EMS Provider 3 Credits (3)

To properly assess and manage a patient, a prehospital provider must have a solid foundation in human anatomy and physiology. This course provides a systematic approach to building this foundation. Grade of 'C' or better is required to pass the course. Consent of Instructor required. Restricted to Community Colleges campuses only.

### OEEM 155. Special Topics

#### 1-6 Credits

Specific topics to be listed in Schedule of Classes. May be repeated for a maximum of 10 credits.

### OEEM 158. Emergency Medical Technician-Combination Refresher 2 Credits (2)

A comprehensive review of prehospital medicine for the prehospital care provider from the first responder level through the EMT Intermediate. New material relevant to recertification of the New Mexico First Responder, EMT Basic and EMT Intermediate licensure included. Graded S/U.

#### OEEM 177. Emergency Medical Services Instructor 4 Credits (4)

Theory of student learning, methodology, instructional components, evaluation, and course coordination for the EMS profession. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): Minimum of an EMT-Basic License required.

### OEEM 201. Human Pathophysiology

### 3 Credits (2+3P)

Overview of anatomy and physiology. Emphasis on human body pathophysiology including a medical illness component. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 120, OEEM 120 L.

#### OEEM 202. EMT-Paramedic Respiratory Emergencies 3 Credits (2+3P)

Review anatomy, physiology and pathophysiology of the respiratory system. Assessment and management of respiratory emergencies and acute respiratory failure in the prehospital setting. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 212.

#### OEEM 203. EMT-Paramedic Trauma Emergencies 3 Credits (2+3P)

Study of the effects of trauma on the human body. Assessment and management of trauma patients and scenes, including vehicular extrication. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 216.

### OEEM 206. Introduction to Advanced Prehospital Care 3 Credits (2+3P)

Overview of prehospital care including roles and responsibilities of EMT-P, EMS systems, medical, legal, ethical issues, stress management, medical terminology, medical report writing and communication. Includes ridealong with ambulance and dispatch observation. Requires a C or better to pass. Restricted to majors. Consent of instructor required. Restricted to: Community Colleges only. Restricted to OEEM majors.

Prerequisite(s): OEEM 120.

### OEEM 207. Introduction to Pharmacology 3 Credits (2+3P)

Drug actions, factors modifying drugs and dosages: characteristics of drug effects, and drug history and dosages. Prehospital protocol, transport, and common patient prescription medications. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only. Restricted to OEEM majors.

### Prerequisite(s): OEEM 120.

### OEEM 210. Cardiac Rhythm Interpretation 3 Credits (2+3P)

Cardiac conduction system: electrophysiology, electrocardiogram, monitor, atrial, sinus, ventricular and junctional dysrhythmias, multiple lead EKG and 12 lead EKG interpretation. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 201, OEEM 206, OEEM 207.

### OEEM 212. EMT-Paramedic Cardiovascular Emergencies 3 Credits (2+3P)

Review anatomy, physiology, and pathophysiology of cardiovascular system. Assessment and management of cardiovascular emergencies in the prehospital setting. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEEM 210.

### OEEM 213. EMT-Paramedic: Medical Emergencies I 3 Credits (2+3P)

Study of the disease process; assessment and management of neurological, endocrine, gastrointestinal, renal emergencies and infectious disease. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEEM 212.

### OEEM 214. EMT--Paramedic: Medical Environmental Emergencies II 3 Credits (2+3P)

Study of disease process, assessment, and management of poisoning, drug and alcohol abuse, environmental, behavioral and geriatric emergencies. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEEM 213.

### OEEM 216. EMT-Paramedic: Reproductive and Childhood Emergencies 3 Credits (2+3P)

Covers anatomy, physiology, disease processes, assessment and management of male and female reproductive system emergencies, childhood emergencies and growth and development. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only.

Prerequisite(s): OEEM 214 and consent of instructor.

### OEEM 218. Pediatric Advance Life Support for the Healthcare Professional

#### 1 Credit (1)

Identify and respond to life threatening pediatric emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEM 101.

### OEEM 219. Advance Cardiac Life Support for the Healthcare Provider 1 Credit (1)

Identify and respond to life threatening cardiac emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

### Prerequisite: OEEM 101.

#### OEEM 230. EMT-Paramedic Clinical Experience I 3 Credits (9P)

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

#### OEEM 231. EMT-Paramedic Clinical Experience II 3 Credits (9P)

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required.

**Prerequisite(s)/Corequisite(s):** OEEM 230. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

### OEEM 240. EMT-Paramedic Field Experience I

### 3 Credits (9P)

Advanced prehospital skills and knowledge. Successful completion of at least the minimum required hours and course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

### OEEM 241. EMT-Paramedic Field Experience II

### 3 Credits (9P)

Continued focus on advanced prehospital skills and knowledge, with increasing responsibility for patient care. Successful completion includes meeting at least the minimum required hours and course objectives. **Prerequisite(s)/Corequisite(s):** OEEM 240. Requires a C- or better to pass.

#### OEEM 242. EMT-Paramedic Field Internship 3 Credits (9P)

### Credits (9P)

Emphasis on total patient care responsibility and team leadership skills. Successful completion includes meeting the minimum hours required and course objectives. Pre/ Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEEM 231, OEEM 241.

### OEEM 243. EMT-Paramedic Preparation for Practice 2 Credits (2)

Comprehensive final program testing to prepare for licensing examination. Requires a 'C' or better to pass. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEEM 242.

### OEEM 247. Emergency Medical Technician - Paramedic Refresher 2 Credits (1+3P)

A comprehensive review of prehospital emergency medicine for the EMT Paramedic. New material relevant to recertification of the New Mexico and Nationally Registered Paramedic licensure. Graded S/U.

### **OEEM 253. Critical Care Emergency Medical Transport Program** 6 Credits (5+6P)

This course will provide further education to Paramedics, Registered Nurses and Registered Respiratory Therapists who wish to function as part of a critical care transport team. Consent of instructor required. Restricted to: Community Colleges only.

Prerequisite(s): Licensed Paramedic, Registered Nurse or Registered Respiratory Therapist with one or more years experience.

### **OEET- ELECTRICAL TRADES (OEET)**

#### **OEET 110. Basic Electricity and Electronics** 4 Credits (3+3P)

An introduction to electricity theory and practice, including electron theory, Ohm s law, construction of electrical circuits, direct and alternating currents, magnetism, transformers, and practical applications. Same as HVAC 102, ELT 105, OEPB 102.

### **OEET 120. Basic Motor Controls**

### 5 Credits (2+6P)

Developing schematics and wiring simple manual and electromechanical control devices.

Prerequisite: OEET 110 or consent of instructor.

### **OEET 151. Electrical Apprenticeship I**

#### 6 Credits (6)

Apprenticeship responsibilities and benefits as well as first aid and CPR will be covered. Hand tools, electrical theory, and the regulations imposed by national codes and OSHA. Students will apply theory taught in their jobs.

Prerequisite: consent of instructor.

### **OEET 152. Electrical Apprenticeship II**

### 6 Credits (6)

OHM s law circuit sizing and service panel sizing will be covered in detail. Other topics include low voltage systems, heating and air conditioning circuits, alarm systems and smoke detectors.

Prerequisites: OEET 151 and consent of instructor.

### **OEET 153. Electrical Apprenticeship III**

### 6 Credits (6)

Various electrical measuring devices will be covered in detail. Inductance, transformers, capacitance, and simple motors will be studied. Prerequisites: OEET 152 and consent of instructor.

#### **OEET 154. Electrical Apprenticeship IV** 6 Credits (6)

Theory and application of three-phase transformers and autotransformers. Electrical distribution using switchboards, panelboards, and circuit breakers. Prerequisites: OEET 153 and consent of instructor.

### **OEET 205. National Electric Code**

3 Credits (3) Interpretation and application of the National Electric Code. Prerequisite: OEET 110.

### **OEET 210. Intermediate Electricity**

### 5 Credits (3+4P)

Introduction to inductance, capacitance, reactances, and power factor correction.

Prerequisite: OEET 110.

### **OEET 251. Electrical Apprenticeship V** 6 Credits (6)

Commercial/industrial applications for electricians. Blueprint interpretation, commercial construction types and processes, wiring methods, wiring materials, and motor controls.

Prerequisites: OEET 154 and consent of instructor.

#### **OEET 252. Electrical Apprenticeship VI** 6 Credits (6)

In-depth commercial applications to include commercial/industrial service calculations, mobile home parks, multi-family dwellings, and commercial fire/security systems.

Prerequisites: OEET 251 and consent of instructor.

#### **OEET 253. Electrical Apprenticeship VII** 6 Credits (6)

Control devices in commercial/industrial applications; emphasis on logic in-line diagrams, time delay starters, reversing starters, and manual/ magnetic solenoids.

Prerequisites: OEET 252 and consent of instructor.

#### **OEET 254. Electrical Apprenticeship VIII** 6 Credits (6)

Miscellaneous topics for the journeyperson electrician to include power distribution/transmission, solid state controls and relays, photoelectric and proximity controls and programmable controllers. Prerequisites: OEET 253 and consent of instructor.

### **OEET 295. Special Topics**

#### 1-6 Credits

Topics to be announced in the Schedule of Classes.

### **OEGR-DIGITAL GRAPHIC TECH** (OEGR)

### **OEGR 221. Cooperative Experience I**

### 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 291. Special Topics in Geographic Information Systems 1-3 Credits (1-3)

Topics to be announced in the Schedule of Classes. May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

### **OETS-TECHNICAL STUDIES (OETS)**

#### **OETS 100. Industrial/Construction Safety**

#### 2 Credits (2)

Covers safety issues such as PPE, BBP, ladder safety,, RTK, HazCom, MSDS and information about safety organizations such as OSHA, NIOSH, NFPA, National Safety Council. Community Colleges only. Restricted to Dona Ana and Carlsbad campuses.

### OETS 102. Career Readiness Certification Preparation 1 Credit (1)

This course is designed to prepare students to successfully obtain Career Readiness Certifications in all areas and at the appropriate levels for their program of study. Graded: S/U Grading (S/U, Audit). May be repeated up to 3 credits. S/U Grading (S/U, Audit).

### **OETS 103. Technical Career Skills**

### 4 Credits (4)

This course will be project-based and will encompass writing, presentation, math, reading, and critical thinking skills applied in a technical environment. Restricted to: Community Colleges only.

### OETS 104. Basic Mathematics for Technicians 4 Credits (4)

Fundamental mathematical concepts and computations including measurement, ratio and proportions, and pre-algebra as it relates to technical programs.

Prerequisite: appropriate placement test score.

### **OETS 117. Writing for Technicians**

### 3 Credits (3)

Instruction in the skills for developing clear, written descriptions of processes and procedures used by technicians in various fields. Emphasis on correct grammar, logical organization, and receiving audience. Focuses on clarity, structure, and concise writing methods. Does not substitute for ENGL 111G. Restricted to: Community Colleges only.

### OETS 118. Mathematics for Technicians 3 Credits (2+2P)

Analysis and problem solving of technical problems using measuring instruments and techniques of arithmetic, algebra, geometry, and trigonometry. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

**Prerequisite(s):** Grade of 'C-' or better in OETS 104 or CCDM 103 N, or appropriate placement test score.

### OETS 120. Business Fundamentals 3 Credits (3)

Instruction in the skills for basic business concepts used by technicians in various fields. Emphasis placed on basic business concepts; business ownership including marketing, management, accounting, and customer services; interpersonal communication; and basic computer concepts including word processing, spreadsheets, and presentation software. Restricted to Community Colleges campuses only.

### **OETS 255. Special Topics Technical Studies**

### 1-6 Credits

Topics to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

Prerequisite(s): Consent of instructor.

### **PHED-PHYSICAL EDUCATION**

### PHED 1110. Dance:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1230. Individual Sport:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1290. Team Sport:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1310. Swim I:

### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1320. Aqua Fit:

### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1410. Yoga:

### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1430. Pilates:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1510. Training:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1620. Fitness:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1630. Career Fitness:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation.

### PHED 1670. Aerobics:

### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

#### PHED 1710. Martial Arts:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 1830. Running:

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation.

### PHED 1910. Outdoor Experience

#### 1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

### PHED 2996. Special Topics

#### 1-3 Credits

Specific subjects to be announced in the Schedule of Classes. Each offering will carry appropriate subtitle. May be repeated for a maximum of 6 credits.

### PHIL-PHILOSOPHY (PHIL)

### PHIL 1115G. Introduction to Philosophy

### 3 Credits (3)

In this course, students will be introduced to some of the key questions of philosophy through the study of classical and contemporary thinkers. Some of the questions students might consider are: Do we have free will? What is knowledge? What is the mind? What are our moral obligations to others? Students will engage with and learn to critically assess various philosophical approaches to such questions.

### PHIL 1120G. Logic, Reasoning, & Critical Thinking 3 Credits (3)

The purpose of this course is to teach students how to analyze, critique, and construct arguments. The course includes an introductory survey of important logical concepts and tools needed for argument analysis. These concepts and tools will be use to examine select philosophical and scholarly texts.

### PHIL 1140G. Quest for God

### 3 Credits (3)

An effort to understand the religious life; a consideration of some of the traditional approaches to God and what it means to be religious.

### PHIL 1145G. Philosophy, Law, and Ethics 3 Credits (3)

An introduction to practical problems in moral, social, political, and legal philosophy. Topics to be discussed may include ecology, animal rights, pornography, hate speech on campus, same-sex marriage, justice, abortion, terrorism, treatment of illegal immigrants, and New Mexican Aboriginal Peoples' land claims.

### PHIL 1155G. Philosophy of Music 3 Credits (3)

This is an introductory course in the philosophy of music. This course will survey three questions: What is music? Why is music important? How can we distinguish good music from bad music? We will draw examples from a wide variety of musical genres, from classical music, jazz and blues to punk and rap. Students will be encouraged to apply philosophical theorizing to think about their preferred musical form.

#### PHIL 2110G. Introduction to Ethics 3 Credits (3)

This course introduces students to the philosophical study of morality and will explore questions concerning our human obligations to others and related issues. Students may be asked to relate various approaches to ethics to present-day ethical debates and their own lives.

#### PHIL 2230G. Philosophical Thought 3 Credits (3)

In this course, students will grapple with some of the key questions of philosophy through the study of classical and contemporary thinkers. Students will become familiar with the perennial problems in subfields of philosophy such as metaphysics, epistemology, ethics, and aesthetics. They will learn to approach these problems both critically and sympathetically.

# PHLS-PUBLIC HEALTH SCIENCES (PHLS)

### PHLS 1110G. Personal Health & Wellness 3 Credits (3)

A holistic and multi-disciplinary approach towards promoting positive lifestyles. Special emphasis is placed on major problems that have greatest significance to personal and community health. Topics to include nutrition, stress management, fitness, aging, sexuality, drug education, and others.

### PHLS 1111. Introduction to Health Science

#### 1 Credit (1)

An overview of professional career opportunities in the realm of health science as well as the functional roles of practice, education, administration, and research. Some field trips will be required.

### PHLS 2110. Foundations of Health Education 3 Credits (3)

Role and responsibility of the health educator with emphasis on small group dynamics, oral and written communication skills, building community coalitions and introduction to grant writing. Taught with PHLS 375. Cannot receive credit for both PHLS 2110 and PHLS 375. May be repeated up to 3 credits.

Prerequisite(s): PHLS 1110G, or consent of instructor.

### PHLS 2120. Essentials of Public Health 3 Credits (3)

The course will focus on principles and major areas if public health, including ecological and total personal concept of health care system, epidemiological approaches to disease prevention and control. Consent of Instructor required.

### **PHYS-PHYSICS (PHYS)**

### PHYS 1111. Introductory Computational Physics

#### 3 Credits (2+2P)

Introduction to computational techniques for the solution of physicsrelated problems.

**Prerequisite(s):** a C- or better in MATH 1220G or MATH 1250G or MATH 1511G.

### PHYS 1112. Introductory Physics for the Health Sciences 3 Credits (3)

Algebra-level introduction to topics required for the Health Sciences including basic mechanics (including sound, mechanical waves and fluids), heat and thermodynamics, electricity and magnetism, optics and electromagnetic waves, atomic and nuclear physics and applications to medical imaging. Restricted to Community Colleges campuses only. **Prerequisite(s):** MATH 1215 or Equivalent.

### PHYS 1115G. Survey of Physics with Lab 4 Credits (3+3P)

Overview of the concepts and basic phenomena of physics. This course provides a largely descriptive and qualitative treatment with a minimum use of elementary mathematics to solve problems. No previous knowledge of physics is assumed. Includes laboratory.

### PHYS 1125G. Physics of Music

#### 4 Credits (3+2P)

Introduction for non-science majors to basic concepts, laws, and skills in physics, in the context of a study of sound, acoustics, and music.

### PHYS 1230G. Algebra-Based Physics I

#### 3 Credits (3)

An algebra-based treatment of Newtonian mechanics. Topics include kinematics and dynamics in one and two dimensions, conservation of energy and momentum, rotational motion, equilibrium, and fluids.

### PHYS 1230L. Algebra-Based Physics I Lab

1 Credit (1)

A series of laboratory experiments associated with the material presented in PHYS 1230G.

Prerequisite(s)/Corequisite(s): PHYS 1230G.

### PHYS 1240G. Algebra-Based Physics II

### 3 Credits (3)

The second half of a two semester algebra-based introduction to Physics. This course covers electricity, magnetism and optics. **Prerequisite(s):** a C- or better in PHYS 1230G or PHYS 2230G.

### PHYS 1240L. Algebra-Based Physics II Lab

### 1 Credit (1)

A series of laboratory experiments associated with the material presented in PHYS 1240

Prerequisite(s)/Corequisite(s): PHYS 1240G.

### PHYS 1241. Problems in Algebra-Based Physics II

### 1 Credit (1)

This is a supplemental course for Algebra-based Physics II. **Corequisite(s):** PHYS 1240G.

#### PHYS 1310G. Calculus -Based Physics I 3 Credits (3)

### 3 Credits (3)

A calculus level treatment of classical mechanics and waves, which is concerned with the physical motion concepts, forces, energy concepts, momentum, rotational motion, angular momentum, gravity, and static equilibrium. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in MATH 1511G or higher.

### PHYS 1310L. Calculus -Based Physics I Lab

### 1 Credit (3P)

A series of laboratory experiments associated with the material presented in Calculus-based Physics I. Students will apply the principles and concepts highlighting the main objectives covered in coursework for Calculus-based Physics I.

Prerequisite(s)/Corequisite(s): PHYS 1310G.

### PHYS 1311. Problems in Calculus-Based Physics I 0.5-1 Credits (.5-1)

This is a supplemental course for Calculus-based Physics I. May be repeated up to 1 credits.

Corequisite(s): PHYS 1310G.

### PHYS 1320G. Calculus -Based Physics II 3 Credits (3)

A calculus level treatment of classical electricity and magnetism. It is strongly recommended that this course is taken at the same time as Calculus-based Physics II laboratory. May be repeated up to 3 credits. **Prerequisite(s):** a C- or better in PHYS 2110 or PHYS 1310G and MATH 1521G or higher.

#### PHYS 1320L. Calculus -Based Physics II Lab 1 Credit (3P)

A series of Laboratory experiments associated with the material presented in Calculus-Based Physics II. Students will apply the principles and concepts highlighting the main objectives covered in coursework for Calculus-Based Physics II.

**Prerequisite(s)/Corequisite(s):** PHYS 1320G. Prerequisite(s): A C- or better in PHYS 2110L or PHYS 1310L.

### PHYS 1321. Problems in Calculus-Based Physics II

**0.5-1 Credits (.5-1)** This is a supplemental course for Calculus-based Physics II. **Corequisite(s):** PHYS 1320G.

### PHYS 2110. Mechanics

**3 Credits (3)** Newtonian mechanics.

Prerequisite(s)/Corequisite(s): MATH 1511G or higher.

### PHYS 2110L. Experimental Mechanics

#### 1 Credit (3P)

Laboratory experiments associated with the material presented in PHYS 2110. Science majors.

Prerequisite(s)/Corequisite(s): PHYS 2110.

### PHYS 2111. Supplemental Instruction to PHYS 2110

#### 0.5-1 Credits (.5-1)

This Optional workshop as a supplement to PHYS 2110. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 2110.

### PHYS 2120. Heat, Light, and Sound

#### 3 Credits (3)

Calculus-level treatment of thermodynamics, geometrical and physical optics, and sound. May be repeated up to 3 credits.

**Prerequisite(s):** a C- or better in PHYS 2110 or PHYS 1310G, and MATH 1511G or higher.

### PHYS 2120L. Heat, Light, and Sound Laboratory 1 Credit (3P)

Laboratory experiments associated with the material presented in PHYS 2120. Science majors.

**Prerequisite(s)/Corequisite(s):** PHYS 2120. Prerequisite(s): a C- or better in PHYS 2110L or PHYS 1310L.

### PHYS 2121. Supplemental Instruction to PHYS 2120 0.5-1 Credits (.5-1)

This optional workshop supplements PHYS 2120 'Heat, Light, and Sound'. Students actively apply concepts and methods introduced in PHYS 2120 to problem solving and quantitative analysis. May be repeated up to 1 credits.

Corequisite(s): PHYS 2120.

### PHYS 2140. Electricity and Magnetism

### 3 Credits (3)

Charges and matter, the electric field, Gauss law, the electric potential, the magnetic field, Ampere's law, Faraday's law, electric circuits, alternating currents, Maxwell's equations, and electromagnetic waves. May be repeated up to 3 credits.

**Prerequisite(s)/Corequisite(s):** MATH 1521G. Prerequisite(s): a C- or better in PHYS 2110 or PHYS 1310G, and MATH 1511G or higher.

#### PHYS 2140L. Electricity & Magnetism Laboratory 1 Credit (3P)

Laboratory experiments associated with the material presented in PHYS 2140.

**Prerequisite(s)/Corequisite(s):** PHYS 2140. Prerequisite(s): a C- or better in PHYS 2110 or PHYS 1310G.

#### PHYS 2141. Supplemental Instruction to PHYS 2140 0.5-1 Credits (.5-1)

Optional workshop as a supplement to PHYS 2140. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 2140.

#### PHYS 2230G. General Physics for Life Science I 3 Credits (3)

This algebra-based introduction to general physics covers mechanics, waves, sound, and heat. Special emphasis is given to applications in the life sciences. This course is recommended for students in the life sciences and those preparing for the physics part of the MCAT. May be repeated up to 3 credits.

Prerequisite(s): A C or better in MATH 1215 or higher.

### PHYS 2230L. Laboratory to General Physics for Life Science I 1 Credit (1)

Laboratory experiments in topics associated with material presented in PHYS 2230G.

**Prerequisite(s)/Corequisite(s):** PHYS 2230G. Restricted to Las Cruces campus only.

### PHYS 2231. Supplemental Instruction to General Physics for Life Sciences I

### 1 Credit (1)

This optional workshop supplements Physics for Life Sciences I. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 2230G.

### PHYS 2240G. General Physics for Life Science II 3 Credits (3)

This algebra-based course covers electricity, magnetism, light, atomic physics, and radioactivity. Special emphasis is given to applications in the life sciences This course is recommended for students in the life sciences and those preparing for the physics part of the MCAT. May be repeated up to 3 credits.

**Prerequisite(s):** a C- or better in PHYS 1230G or PHYS 2230G, and MATH 1220G or higher.

### PHYS 2240L. Laboratory to General Physics for Life Science II 1 Credit (1)

Laboratory experiments in topics associated with material presented in PHYS 2240.

**Prerequisite(s)/Corequisite(s):** PHYS 2240G. Restricted to Las Cruces campus only.

### PHYS 2241. Supplemental Instruction to General Physics for Life Sciences II

### 1 Credit (1)

This optional workshop is a supplement to Physics for Life Science II. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 2240G.

### PHYS 2996. Special Topics

### 1-3 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

### PHYS 2997. Independent Study

#### 1-3 Credits

Individual analytical or laboratory studies directed by a faculty member. May be repeated for a maximum of 6 credits. **Prerequisite:** consent of instructor.

### PL-S-PARALEGAL SERVICES (PL S)

### PL S 160. Legal System for the Paralegal

### 3 Credits (3)

Introduction to the court system, administrative agencies, functions of law offices, and professional conduct and legal ethics. Restricted to: Community Colleges only.

**Prerequisite(s):** ACT standard score in English of 16 or higher or a Compass score 76 or higher; for those scoring 13-15 in English on ACT or 35-75 on Compass, successful complete of CCDE 105N or CCDE 110N; for those scoring 12 or below on the ACT standard score in English or 34 or below on the Compass, successful completion of CCDE 105N & CCDE 110N.

### PL S 161. Legal Terminology

### 3 Credits (3)

Survey of the language of the law that will serve either as an introductory course or as a review course to prepare students for the certification test.

### PL S 162. The Virtual Law Office

### 3 Credits (3)

The Virtual Law Office class is a 'hands-on', project oriented course designated to provide the student with the basic law office skills needed to function successfully in a law office setting. The student will gain a practical, working knowledge of the procedures necessary to work in a law office. The skills learned in the class will directly translate to real life situations. Restricted to: Community Colleges only. **Prerequisite(s):** PL S 160.

### PL S 180. Constitutional Law for the Paralegal

### 3 Credits (3)

Case standing of the law of the Constitution and Bill of Rights with regard to day-to-day applications in the law practice. Documents dealing with constitutional problems in both civil and criminal areas of law will be drafted and discussed.

Prerequisite: PL S 160.

### PL S 190. Criminal Law for the Paralegal 3 Credits (3)

Introduction to federal and state criminal law; criminal proceedings, prosecution and defense, sentencing and appeal. **Prerequisite:** PL S 160.

### PL S 200. Legal Ethics for the Paralegal 3 Credits (3)

Introduction to ethical dilemmas faced in the workforce and the rules of ethics developed by the American Bar Association, various national paralegal organizations, and the Supreme Court of New Mexico. Restricted to: Community Colleges only. **Prerequisite(s):** PL S 160.

### PL S 203. Immigration Law

#### 3 Credits (3)

Survey of the basics of immigration law including the rights and obligations of citizenship and the naturalization process. **Prerequisite:** PL S 160.

### PL S 221. Internship I

#### 2-4 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships can be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. Restricted to Community Colleges campuses only. **Prerequisite(s):** PL S 274.

#### PL S 222. Internship II

#### 1-3 Credits

Continuation of PL S 221. Each credit requires specified number of hours of on-the-job work experience. Restricted to Community Colleges campuses only.

Prerequisite(s): PL S 221.

### PL S 231. The Law of Commerce for the Paralegal 3 Credits (3)

Law of contracts, negotiable instruments, bank transfers, secured transactions, debtor-creditor relations, agency, and business types and their formation. Students will study the relevant statutes as well as draft documents associated with these types of legal practice. Restricted to: Community Colleges only.

Prerequisite(s): PL S 160.

### PL S 272. Bankruptcy Law for the Paralegal

#### 3 Credits (3)

Individual and corporate bankruptcy; the basic principles and processes of bankruptcy law as a system of debtor relief and debt collection. **Prerequisite:** PL S 160.

### PL S 274. Legal Research and Writing for the Paralegal I 3 Credits (3)

Legal memoranda, briefs, and pleadings will be prepared and written based on the student s original research. Research materials and techniques will be identified and studied; introduction of computer usage in legal research.

Prerequisite: PL S 160 and ENGL 1110G.

### PL S 275. Tort and Insurance for the Paralegal 3 Credits (3)

Primary legal principles of tort and insurance law and means of establishing insurance plans, types of torts and insurance, as well as use of specific forms and procedures relating to these areas. **Prerequisite:** PL S 160.

### PL S 276. Wills, Trusts, and Probate for the Paralegal 3 Credits (3)

Cases and statutes dealing with wills, trusts, and probate. Emphasis on preparation and drafting of documents and the application of the law and documents to the client s problems. **Prerequisite:** PL S 160.

### PL S 277. Family Law for the Paralegal 3 Credits (3)

Methods of conducting client interviews and drafting of pleadings and research relative to families. Laws relating to marriage, divorce, custody, support, adoption, name change, guardianship, and paternity. **Prerequisite:** PL S 160.

### PL S 278. Litigation for the Paralegal

### 3 Credits (3)

The law of procedure and evidence will be considered through rules and cases. Case situations will be used to identify and solve problems. **Prerequisite:** PL S 160.

### PL S 279. Legal Research and Writing for the Paralegal II 3 Credits (3)

Continuation of PL S 274. Advanced training in legal research problems with a focus on analysis, writing, and preparation of sophisticated legal memoranda and documents.

### Prerequisite: PL S 274.

### PL S 280. Interviewing and Investigation for the Paralegal 3 Credits (3)

Techniques of legal interviewing and investigation with emphasis on development of human relations and communication skills. **Prerequisite:** PL S 160.

### PL S 298. Independent Study

#### 1-3 Credits (1-3)

Individual studies directed by consenting faculty with prior approval by department head. Restricted to Community Colleges campuses only. **Prerequisite(s):** PL S 160.

### **POLS-POLITICAL SCIENCE**

### POLS 1110G. Introduction to Political Science 3 Credits (3)

This course covers fundamental concepts in political science, such as political theories, ideologies, and government systems.

#### POLS 1111. Introductory Government Seminar 1 Credit (1)

Introduction to the government major. Designed to assist students in planning college experience and preparing for professional or advanced educational opportunities upon graduation. Graded: S/U. Restricted to: Main campus only.

### POLS 1120G. American National Government 3 Credits (3)

This course explains the role of American national government, its formation and principles of the Constitution; relation of state to the national government; political parties and their relationship to interest groups. This course also explains the structure of the legislative, executive, and judicial branches.

### POLS 1130G. Issues in American Politics 3 Credits (3)

This course is designed to introduce the students to the contemporary study of American political issues. The course analysis of government policies, examining various approaches to the economy, democracy and the structure and the function of American political institutions.

### POLS 2120G. International Relations

### 3 Credits (3)

This course covers the analysis of significant factors in world politics, including nationalism, national interest, political economy, ideology, international conflict and collaboration, balance of power, deterrence, international law, and international organization.

### POLS 2996. Special Topics

#### 3 Credits (3)

Specific topics to be announced in Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits.

### **PORT-PORTUGUESE (PORT)**

### PORT 1110. Portuguese I

### 3 Credits (3)

Designed for students with no previous exposure to Portuguese, this course develops basic listening, speaking, reading, and writing skills. This is an introductory course aimed at teaching the student to communicate in Portuguese in everyday situations.

### PORT 1120. Portuguese II

#### 3 Credits (3)

A continuation of Portuguese I, students will develop a broader foundation in skills gained during the first semester, including understanding, speaking, reading and writing Portuguese. Students will also gain more in- depth knowledge of Portuguese-speaking cultures. **Prerequisite:** C or better in PORT 1110 or consent of instructor.

### **PSYC-PSYCHOLOGY**

### PSYC 1110G. Introduction to Psychology

#### 3 Credits (3)

This course will introduce students to the concepts, theories, significant findings, methodologies, and terminology that apply to the field of psychology.

### PSYC 2221. Applied Psychology

### 3 Credits (3)

Explanation of the psychological principles of everyday living. Emphasizes motivation, learning of intelligent behavior, and applications of psychology to social issues. Community Colleges only.

### PSYC 2230. Psychology of Adjustment

### 3 Credits (3)

This course focuses on the individual's adjustment to society, and the application of psychological principles to the understanding of adjustment.

### PSYC 2311. A Study of Substance Abuse through Learning 3 Credits (3)

Physiological and psychological impact of drug use on human behavior. Emphasizes practical applications of intervention and prevention in the community. Community Colleges only.

### RADT-RADIOLOGIC TECHNOLOGY (RADT)

### RADT 100. Introduction to Radiologic Technology and Patient Care 2 Credits (2)

Overview of the profession, including ethics, terminology, and basic radiation protection. Addresses basic and specialized procedures and topics related to the care of the patient. Restricted to: Community Colleges only. Restricted to Majors.

#### RADT 101. Radiographic Positioning I 4 Credits (2+6P)

Covers radiographic procedure and positioning concepts, techniques, terminology, and mechanics related to the thorax, abdomen, extremities, spine and pelvis. Includes positioning lab and clinical observation.

### RADT 102. Radiographic Positioning II 4 Credits (2+6P)

Continuation of RADT 101. Includes skull, gastrointestinal, urinary, reproductive, biliary systems, and more advanced skeletal positions. Includes positioning lab and clinical observation.Restricted to: Community Colleges only. Restricted to Majors.

### Prerequisite: RADT 101.

### RADT 103. Introduction to Radiographic Imaging 3 Credits (2+2P)

Provides the student with an in-depth knowledge of radiographic exposure technique and the factors affecting radiographic film quality. Includes lab experiments. Restricted to majors.

### RADT 104. Special Radiologic Modalities

### 2 Credits (2)

Discussion of various special procedures used in medical imaging such as, angiography, ultrasound, computerized tomography, magnetic resonance imaging, digital imaging, nuclear medicine, radiation therapy, etc. Includes guest lectures and field trips. **Prerequisite:** RADT 103.

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### RADT 105. Radiographic Physics and Equipment 3 Credits (3)

Fundamentals of rad physics. Includes electromagnetism, x-ray production and interactions, x-ray circuitry, tubes, grids, screens, AES, fluoroscopic and portable units, beam restricting devices, calibration and quality assurance/control. Overview of mammography, US, CT, MRI, and digital radiography. Restricted to: Community Colleges only. Restricted to Majors.

Prerequisite: RADT 103 or consent of instructor.

### RADT 110. Radiographic Pathology

### 1 Credit (1)

Overview of pathology demonstrated by radiographic procedures. Restricted to majors. **Prerequisite:** RADT 154.

### RADT 154. Radiographic Anatomy and Physiology 3 Credits (3)

Basic A&P for radiographic application. Includes a systems approach to body structures and organs as they relate to anatomical projections, radiographic identification, and various imaging modalities. Restricted to: RADT majors. Restricted to: Community Colleges only.

**Prerequisite(s):** AHS 153 or AHS 140 or BIOL 2210 or BIOL 1130, or consent of instructor.

### RADT 156. Independent Study

### 1-6 Credits (1-6)

Individual studies/research on topics related to the radiological sciences. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

### RADT 190. CT Equipment and Methodology 3 Credits (3)

Skill development in the operation of computed tomographic equipment, focusing on routine protocols, image quality, and quality assurance and radiation protection. May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

### RADT 200. Radiation Biology and Protection 2 Credits (2)

Biological effects of ionizing radiation on cells and tissues. Includes radiation measurements, policies and protection measures for self, patients, and others. Restricted to majors. Restricted to: Community Colleges only.

Prerequisite(s): RADT 103.

### RADT 201. Clinical Education I

#### 7 Credits (32P)

Supervised practice in a radiology department under direct supervision of a registered technician. Includes film critiques. Community Colleges Only. Restricted to: RADT,OERT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): RADT 105.

### RADT 202. Clinical Education II

#### 11 Credits (33P)

Continuation of RADT 201. Student will work under indirect supervision of registered personnel. May be repeated up to 11 credits. Restricted to: OERT,RADT majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OERT 201.

### **RADT 203. Clinical Education III**

#### 11 Credits (33P)

Continuation of RADT 202. May be repeated up to 11 credits. Restricted to: RADT,OERT majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** RADT 202.

### RADT 205. Radiographic Image Critique

#### 1 Credit (1)

Review of radiographs produced in clinical settings to evaluate anatomy and technical issues. Restricted to majors. **Prerequisite:** RADT 201.

### RADT 206. Applied Radiographic Procedures 2 Credits (1+3P)

Advanced course which integrates the principles and techniques of radiologic technology. Restricted to majors. **Prerequisite:** RADT 202.

#### RADT 207. Cross Sectional Anatomy for Medical Imaging 3 Credits (3)

Anatomic relationships that are present under various sectional orientations as depicted by computed tomography or magnetic resonance imaging. May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

#### RADT 208. Clinical I (Computed Tomography) 3 Credits (9P)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. May be repeated up to 3 credits. Restricted to: RADT or CTOM majors. Restricted to Community Colleges campuses only.

### RADT 209. Clinical II (Computed Tomography) 3 Credits (9P)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. (Capstone Course). May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

### **RESP - RESPIRATORY THERAPY** (RESP)

### RESP 110. Respiratory Therapy I 3 Credits (3)

Introduction to basic respiratory care techniques. Includes history, professional organizations, medical gas administration, oxygen therapy, cardiopulmonary AP, patient assessments, and medical terminology. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

### **RESP 110 L. Respiratory Therapy I Lab**

#### 2 Credits (2)

Laboratory practice of basic respiratory care procedures. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

### RESP 115. Respiratory Therapy Pharmacology 3 Credits (3)

Concepts of physics as they apply to the physiology of the lungs. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

### **RESP 120. Respiratory Therapy II**

### 4 Credits (4)

Advanced respiratory care techniques. Emphasis on airway management, aerosol treatment, chest physiotherapy, pharmacology, posture pressure breathing, and pulmonary rehabilitation. Requires a C or better to remain in program. May be repeated up to 4 credits. Students must be admitted into program to enroll in this course. Restricted to Community Colleges campuses only.

Prerequisite(s): RESP 110. Corequisite(s): RESP 120 L.

### RESP 120 L. Respiratory Therapy II Lab

#### 2 Credits (6P)

Continuation of lab practices and procedures learned in RESP 120, Respiratory Care II, using equipment and simulations. Requires a C or better to remain in program. Students must be admitted to the program to enroll in this course. Corequisite(s):RESP 120. Restricted to: Community Colleges only. Restricted to RESP majors. **Prereguisite(s):** RESP 110, RESP 110L and RESP 112.

### RESP 124. Respiratory Therapy II Clinical 3 Credits (9P)

Supervised practice and application in a hospital setting. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 110, RESP 110L and RESP 112. Corequisite(s): RESP 120 and RESP 120L.

### RESP 155. Respiratory Therapy Special Topics

### 1-4 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 10 credits. Consent of instructor required. Restricted to: Community Colleges only. Restricted to RESP majors. **Prerequisite(s):** Admission to program.

### **RESP 210. Respiratory Therapy III**

#### 2 Credits (2)

Introduction to adult, mechanical, neonatal ventilator theory and concepts of critical care medicine. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors. **Prerequisite(s):** RESP 115, RESP 120, RESP 120L, and RESP 124. **Corequisite(s):** RESP 210L.

### RESP 210 L. Respiratory Therapy III Lab

### 2 Credits (2)

Advanced practice procedures using mechanical ventilation devices. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

**Prerequisite(s):** RESP 115, RESP 120, RESP 120 L, and RESP 124. **Corequisite(s):** RESP 210.

### RESP 224. Respiratory Therapy IV Clinical 3 Credits (9P)

Continuation of RESP 124. Emphasis on mechanical ventilators. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

**Prerequisite(s):** Admission to program, and RESP 115, RESP 120, RESP 120 L, and RESP 124.

### RESP 230. Respiratory Therapy V

### 3 Credits (3)

Continuation of RESP 215. Emphasis on special modalities. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

### RESP 230 L. Respiratory Therapy V Lab

### 2 Credits (2)

Advanced practice and procedures of respiratory care. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

### RESP 233. Respiratory Therapy Cardiopulmonary 2 Credits (2)

Concepts of physics as they apply to the physiology of the lung. Emphasis on laws pertaining to gas flow, humidity, and the mechanics of the breathing process. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

### RESP 234. Respiratory Therapy V Clinical 3 Credits (3)

Continuation of RESP 214. Emphasis on special modalities. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

### **RESP 240. Respiratory Therapy VI**

### 3 Credits (3)

Advanced theory of hemodynamics, neonate, pediatric, and new specialties that apply to respiratory care. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

**Prerequisite(s):** RESP 230, RESP 230L, RESP 233 and RESP 234. **Corequisite(s):** RESP 240L.

### RESP 240 L. Respiratory Therapy VI Lab 2 Credits (6P)

Advanced laboratory practice and procedures. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 230, RESP 230L, RESP 233 and RESP 234. Corequisite(s): RESP 240.

### RESP 242. Pediatric Advanced Life Support (PALS) 1 Credit (1)

Etiology, diagnosis, clinical manifestations, and management of cardiopulmonary disorders related to respiratory care. Restricted to majors.

#### Corequisite(s): RESP 230.

### RESP 243. Respiratory Therapy Neonatal Resuscitation 1 Credit (1)

Advanced practice of the neonatal resuscitation and certification. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors. **Prerequisite(s):** RESP 230, RESP 230L, RESP 233, and RESP 234. **Corequisite(s):** RESP 240 and RESP 244.

### RESP 244. Respiratory Therapy VI Clinical 3 Credits (9P)

Clinical experience on special modalities. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 230, RESP 230L, RESP 233 and RESP 234. Corequisite(s): RESP 240.

### RESP 255. Respiratory Therapy Special Topics 1-4 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 4 credits. Consent of instructor required. Restricted to: Community Colleges only. Restricted to RESP majors. **Prerequisite(s):** Admission to program.

### **RGSC-RANGE SCIENCE (RGSC)**

### **RGSC 1110. The Range Science Profession**

#### 1 Credit (1)

Introduction to scientific disciplines and career opportunities in rangeland science and management.

### **RGSC 2110. Introduction to Rangeland Management**

### 3 Credits (3)

This course covers the principles of managing and understanding pasture and rangelands. Plant physiology and ecology, plant communities and rangeland sustainability and how they relate to livestock production and wildlife management will be discussed. Restricted to: Main campus only.

### **RGSC 2996. Special Topics**

### 1-4 Credits

Specific subjects and credits announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

### SIGN-SIGN LANGUAGE

### SIGN 1110. American Sign Language I

### 3 Credits (3)

American Sign Language I is an introductory level language course in the language of the American Deaf Culture. Content includes ASL vocabulary and conversational skills; linguistic features of ASL; and skills in narrative/storytelling. In-class activities, comprehension and expressive examinations, narrative and storytelling assignments in addition to semester projects are venues for students to demonstrate their learning. In addition, Deaf Culture and Deaf Community issues are addressed.

### SIGN 1120. American Sign Language II 3 Credits (3)

American Sign Language II is a continuation course that builds on concepts and skills developed in American Sign Language I. Students gain further exposure to ASL structure and grammar, and Deaf Culture and the Deaf community. Emphasis is on increasing students' ability to comprehend other signers and express themselves with more elaboration when conversing or presenting in ASL.

Prerequisite: SIGN 1110 or consent of instructor.

#### SIGN 2110. American Sign Language III 3 Credits (3)

This is an intermediate level course in American Sign Language (ASL). Expected areas of intermediate skill and knowledge development include: language comprehension and production, conversational use, narratives, ASL language features and further knowledge of and interaction with Deaf culture and the Deaf community.

Prerequisite: SIGN 1120.

# SMET-SCIENCE/MATH/ENG/TECH (SMET)

### SMET 201. Research for Visiting Community College Students 1 Credit (1)

Research experience for visiting community college students. Consent of instructor required. Restricted to: Main campus only.

### SOCI-SOCIOLOGY

### SOCI 1110G. Introduction to Sociology

### 3 Credits (3)

This course will introduce students to the basic concepts and theories of sociology, as well as to the methods utilized in sociological research. The course will address how sociological concepts and theories can be utilized to analyze and interpret our social world, and how profoundly our society and the groups to which students belong influence them. Students will be given the opportunity to challenge their "takenfor-granted" or "common sense" understandings about society, social institutions, and social issues. Special attention will also be paid to the intimate connections between their personal lives and the larger structural features of social life. In addition, the implications of social inequalities, such as race/ethnicity, gender, and social class will be central to the course's examination of social life in the United States.

### SOCI 2230. Sociology of Sexuality 3 Credits (3)

This course explores all aspects of human sexuality from a sociological perspective. Topics include, but are not limited to, sex work, intimate relationships, sexual response, political movements, power, and the social construction of sexuality. The course also considers how various social statuses such as ethnicity, gender, and social class intersect with sexuality.

### SOCI 2240. Sociology of Intimate Relationships and Family 3 Credits (3)

This course provides an overview of contemporary intimate relationships and families from sociological perspectives. We will examine intimate relationships and families as social constructions whose meanings have changed over time and from place to place. This course will aid students in developing a greater understanding of intimate relationships and families as institutions in contemporary U.S. society. Intersections of race, class, gender, sexual orientation, nationality, and other factors within these institutions will be addressed. Community Colleges only.

### SOCI 2261. Issues in Death and Dying 3 Credits (3)

Major personal and social issues related to the process of dying in our culture. Community Colleges only.

### SOCI 2310G. Contemporary Social Problems 3 Credits (3)

This course studies the nature, scope, and effects of social problems and their solutions. The course will concentrate on sociological perspectives, theories, and key concepts when investigating problems, such as inequality, poverty, racism, alienation, family life, sexuality, gender, urbanization, work, aging, crime, war and terrorism, environmental degradation, and mass media. This course is designed to build students' sociological understanding of how sociological approaches attempt to clarify various issues confronting contemporary life, as well as how sociologists view solutions to these problems.

### SOIL-SOIL (SOIL)

#### SOIL 2110. Introduction to Soil Science 3 Credits (3)

An overview of fundamental concepts in soil science and soils as a natural resource. Students will be introduced to the physical, chemical, and biological properties as it relates to soil management in environmental science, conservation, and agronomy.Prerequisite: (CHEM 1120G or MATH 1215 or higher) or CHEM 1215G

#### SOIL 2110L. Introduction to Soil Science Laboratory 1 Credit (1)

### Morphological, chemical, physical and biological properties of soil in the laboratory and field.

Corequisite(s): SOIL 2110.

### SOIL 2996. Special Topics

### 1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree. May be repeated up to 9 credits. Consent of Instructor required.

### **SOWK-SOCIAL WORK**

### SOWK 2110G. Introduction to Human Services & Social Work 3 Credits (3)

This course is for students who are interested in social welfare issues and/or are considering entering a social service profession. The course presents an overview of social problems, issues and trends, and the network of social agencies developed to address these concerns. The course examines the influence of personal and professional values and ethics on the helping relationship. The concept of social welfare will be discussed from a social work perspective (with an emphasis on social justice), and students will gain a basic understanding of social work in U.S. society, social work career opportunities, and contemporary issues facing social workers. Approaches relevant to work with individuals, families, groups and communities are presented, with special emphasis on Hispanic and Indigenous populations of New Mexico and the Southwest.

### SOWK 2111. Women's Issues in Social Work 3 Credits (3)

Examines gender-specific social problems and their identification and resolution through the use of social agencies and community resources. Community Colleges only.

### **SPAN-SPANISH (SPAN)**

### SPAN 1110. Spanish I

### 4 Credits (4)

Designed for students with little exposure to Spanish, this course develops basic listening, speaking, reading, and writing skills and basic intercultural competence in interpretive, interpersonal and presentational modes of communication at the Novice Level of proficiency based on ACTFL guidelines. During this course, students perform better and stronger in the Novice Mid level while some abilities emerge in the Novice High range. This is an introductory course aimed at helping the student to communicate in Spanish in everyday familiar situations via recognition and production of practiced or memorized words, phrases, and simple sentences.

**Prerequisite(s):** language placement and/or assessment by departmental examination.

### SPAN 1120. Spanish II

#### 4 Credits (4)

Designed for students with some degree of exposure to Spanish in high school and/or at home, this course continues to develop basic listening, speaking, reading, and writing skills and basic intercultural competence in interpretive, interpersonal and presentational modes of communication based at the Novice High Level of proficiency based on ACTFL guidelines, although a few abilities may emerge in the Intermediate Low Level. Students in this course communicate in Spanish in familiar topics using a variety of words, phrases, simple sentences and questions that have been highly practiced and memorized.

**Prerequisite:** language placement and/or assessment by departmental examination or a C- or better in SPAN 1110.

### SPAN 1210. Elementary Spanish for Heritage Learners I 3 Credits (3)

This is a beginning-level Spanish course designed for students who have a cultural connection to the Spanish language. Some students have had very little exposure to the language and enter the class to develop beginning-level skills. Other students may have grown up hearing the heritage language in the community and may understand some Spanish and speak at a basic level as a result. The objective is to draw upon the connection to the heritage language as a source of motivation and engagement for our learning communities. At the same time, we build upon the language base that students may already have as a result of their heritage learner experience in order to develop new proficiencies in Spanish and reactivate the Spanish that students have learned previously. By the end of this course, students will be able to describe their home, campus surroundings and common activities including cultural traditions. At the same time, students gain cultural competency and develop a critical understanding of their linguistic and cultural background. Students who have previously earned a C or better in SPAN 1110 or SPAN 1120 may not recieve credit for this course.

### SPAN 1220. Spanish for Heritage Learners II 3 Credits (3)

Spanish as a Heritage Language II is a second semester class designed for students who have developed some basic Spanish proficiency from previous classes and/or from community experiences. This course provides students with the opportunity to develop their proficiency in the four language skills (speaking, listening, reading, and writing). Class activities are designed to strengthen oral communication skills (speaking and listening) through a variety of group activities. By the end of the course students will be able to understand and produce narrations of past events in oral and written Spanish. In order to foster a desire to revitalize and maintain the Spanish language in the US context we attempt to raise students' critical awareness of what it means to be part of a specific speech community.

### SPAN 2110. Spanish III

#### 3 Credits (3)

This course is based on the integration of learning outcomes across Interpersonal, Interpretive, and Presentational Modes of Communication at the Intermediate Low Level of proficiency based on ACTFL guidelines. Students accomplish real-world communicative tasks in culturally appropriate ways as they gain familiarity with the target culture(s). This is an intermediate course aimed at helping the student to communicate in Spanish on familiar topics about self, others and everyday life at the same time that they recognize and handle short social interactions in interactions in everyday situations by asking and answering a variety of guestions.

**Prerequisite:** language placement and assessment by departmental examination or C or better in SPAN 1120.

#### SPAN 2120. Spanish IV 3 Credits (3)

This course is based on the integration of learning outcomes across Interpersonal, Interpretive, and Presentational Modes of Communication at the Intermediate Low Level of proficiency based on ACTFL guidelines. Students accomplish real-world communicative tasks in culturally appropriate ways as they gain familiarity with the target culture(s). This is an intermediate course aimed at helping the student to communicate in Spanish on familiar topics about self, others and everyday life at the same time that they recognize and handle short social interactions in interactions in everyday situations by asking and answering a variety of questions.

**Prerequisite:** language placement and assessment by departmental examination or C or better in SPAN 2110.

### SPAN 2210. Spanish for Heritage Learners III 3 Credits (3)

Intermediate Spanish for Heritage Speakers I is a third semester course designed for students who have been raised in a Spanish-speaking environment and speak, or understand, some Spanish as a result of hearing it in the home, and in the community by family, friends, and neighbors. Students in this course will continue to develop their ability to narrate events in the past and will be able to describe hypothetical situations. Students will also develop their ability to express wishes, desires, and necessities. This course will help the student build confidence in their Spanish abilities and expand the language use in the areas of writing, reading, oral production and listening comprehension. In order to foster a desire to revitalize and maintain the Spanish language we attempt to raise students' critical awareness of wider issues facing Spanish speakers in the US context.

### SPMD-SPORTS MEDICINE

### SPMD 1110. Introduction to Athletic Training

#### 3 Credits (3)

Introduction to the principles of athletic training. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

### SPMD 1120. Medical Terminology

### 3 Credits (3)

Study of the structure of medical language with emphasis on sports medicine-related terminology. To include analysis and interpretation of medical documentation. Restricted to: Las Cruces campus only.

### SPMD 1190. Clinical Practicum I

### 2 Credits (2)

Introduction to the clinical aspects of the athletic training education program. Must maintain at least 3.0 GPA. May be repeated up to 4 credits. Consent of Instructor required. Restricted to: Athletic Training majors. Restricted to Las Cruces campus only.

### SPMD 1195. Clinical Practicum II

### 3 Credits (3)

Athletic training related content and psycho-motor skills are introduced, enhanced, and assessed in the classroom and clinical rotations. Emphasis is on competencies and proficiencies previously instructed in didactic courses while providing increased depth of understanding and clinical practice. Must maintain a 3.0 GPA. May be repeated up to 3 credits. Consent of Instructor required.Restricted to: Athletic Training majors.

### SPMD 1310. Introduction to Kinesiology 3 Credits (3)

An introduction to the field of Kinesiology which will explore areas such as exercise physiology, sport and exercise psychology, motor behavior, biomechanics, strength and conditioning, exercise prescription, as well as professional and graduate programs, and allied health and applied careers opportunities.

### SPMD 1350. Social Foundations of Physical Activity 3 Credits (3)

Historical and cultural foundations and vocational, scientific, and educational data on careers in health education, physical education, and recreation.

### SPMD 2130. Emergency Response in Sports Medicine 2 Credits (2)

Designed to provide knowledge and experience in emergency care procedures, blood borne pathogens, and first aid. Students will receive certification in CPR/AED for the Professional Rescuer and in First Aid, upon successful completion of course. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

Prerequisite(s): Consent of Instructor.

### SPMD 2210. Anatomy and Physiology I 3 Credits (3)

Detailed study of the structure and function of the human musculoskeletal, cardiovascular, respiratory, and peripheral nervous systems. Designed specifically for students interested in allied health professions.

### SPMD 2210L. Anatomy and Physiology Laboratory 1 Credit (1P)

Students will engage in activities designed to enhance appreciation of the anatomical structures related to the content areas for SPMD 2210. Restricted to Las Cruces campus only.

### SPMD 2250. Fitness for Health and Sport

### 3 Credits (3)

A study of the fitness needs for health enhancement and sport participation. Restricted to: EXSC,KIN,P E,S ED,SP M majors.

### SPMD 2310. Career Preparation

### 1 Credit (1)

From concept to implementation: Career exploration, setting up degree plans, finding graduate programs, developing professional resumes, writing letters of application, seeking letters of recommendation, and interview preparation. Graded: S/U Grading (S/U, Audit).

### **SPHS-SPEECH & HEARING SCIENCE**

### SPHS 2110. Introduction to Communication Disorders 3 Credits (3)

This introductory course provides an overview of common speech, language, and hearing disorders in children and adults including etiologies, characteristics, prevention, identification, assessment and intervention. The course provides an overview of the field of speechlanguage pathology and audiology.

### **SPED-SPECIAL EDUCATION (SPED)**

### SPED 2130. Society

#### 3 Credits (3)

Development of culturally responsive learning strategies, skills and utilization of support services, to enchance academic achievement. Restricted to: Main campus only.

#### SPED 2996. Topics

#### 3 Credits (3)

Offered under various subtitles that indicate the subject matter to be covered. May be repeated 3 times for a maximum of 9 credits.

### SUR-SURVEYING (SUR)

### SUR 222. Plane Surveying

#### 3 Credits (2+3P)

Theory and practice of geomatics as applied to plane surveying in the areas of linear measurements, angle measurements, area determination, differential and trigonometric leveling, and topographic mapping. Crosslisted with: DRFT 222.

Prerequisite(s): MATH 1250G

#### SUR 264. Introduction to LIS

#### 3 Credits (2+3P)

Introduction to land information systems. Land tenure systems, coordinate systems, computer methods. **Prerequisite(s)/Corequisite(s):** DRFT 109.

### SUR 285. Precise Digital Mapping

#### 3 Credits (3)

Photogrammetric Mapping Principles, digital sensor including optical cameras, terrestrial, surveying control, IMU & GPS integration, stereo photography, analytical triangulation, orthorectification, precision and accuracy of measurement systems, sUAS (Small Unmanned Aerial Vehicles) applications to geospatial data collection and practical applications project fight/pre planning, sensor platform, FAA regulations and restrictions, introduction to laser scanning systems. Restricted to Las Cruces campus only.

### SUR 292. Public Land Survey System Boundaries 3 Credits (3)

Fundamentals of the U.S. Public Land Survey System; rules for the survey of the public lands, field surveys; the rectangular system, corners, monuments, evidence; dependent and independent resurveys, corner restoration; plats and field notes, patents. Restricted to Las Cruces campus only.

# SURG-SURGICAL TECHNOLOGY (SURG)

### SURG 120. Surgical Technology Clinical I 2-4 Credits (6P)

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. This course is designed to prepare the student to enter the surgical environment. This course provides an introduction to the operating room, observation of surgical procedures, direct participation in the preoperative (pre-op, intra-op, post-op) preparation of individual cases and professional roles and responsibilities of individual members of the surgical team. Direct supervision is provided by the clinical professional. May be repeated up to 4 credits. Students must be admitted into Surgical Technology Program to enroll in this course.

Prerequisite(s): BIOL 2310, BIOL 2210, BIOL 2225, NURS 150. Corequisite(s): SURG 140, SURG 145.

### SURG 140. Introduction to Surgical Technology 4 Credits (4)

This is an orientation to surgical technology theory, surgical pharmacology and anesthesia, technology sciences and patient care concepts and is designed to prepare the student to enter the surgical environment with entry-level knowledge necessary to understand patient responses to disease, illness, hospitalization, surgical procedures, commonly used pharmacological and anesthetic agents, and legal, moral, and ethical issues that could be encountered in the surgical environment. Restricted to Community Colleges campuses only.

Prerequisite(s): Admission to Surgical Technology Program; BIOL 2310, BIOL 2225, & NURS 150.

### SURG 145. Fundamentals of Perioperative Concepts & Techniques 4-5 Credits (3+3P)

This is an in-depth coverage of perioperative concepts such as aseptic/ sterile principles and practice, infectious processes, wound healing and creation and maintenance of the sterile field. This course is designed to prepare the student to enter the surgical environment with entry-level knowledge of aseptic technique principles and practices, the creation and maintenance of the sterile field including equipment, supplies and instrumentation, and basic case preparation and procedures. An introduction to diseases and disease processes that may be displayed by the surgical patient and the patient's bodily responses to disease are also included. May be repeated up to 5 credits.

Prerequisite(s): Admission to Surgical Technology Program, BIOL 2310, BIOL 2210, BIOL 2225, & NURS 150.

#### SURG 150. Surgical Procedures I 4-5 Credits (3-5+3P)

This course is an introduction to surgical procedures and its related pathologies. Emphasis on surgical procedures related to general, obstetrics/gynecology, genitourinary, otorhinolaryngology and orthopedic surgical specialties incorporating instruments, equipment. It is designed to prepare the student to function actively in the surgical environment with entry-level knowledge of surgical procedures. This course expands the basic foundation principles and combines the study of common surgical procedures to include anatomy, physiology and pathophysiology. Specific patient care concepts, medications, instrumentation, equipment, supplies and complication related to selected surgical procedures will be discussed. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 140, SURG 145, and SURG 120.

### SURG 155. Pharmacology for the Surgical Technology 2 Credits (2)

This is an orientation to surgical pharmacology and anesthesia and is designed to prepare the student to enter the surgical environment with knowledge necessary to categorize the classification of drugs, calculate drug dosages and identify the therapeutic use, routes of administration, indications, contraindications and adverse effects of pharmacologic agents used in the perioperative setting. This course is the foundation for the acquisition of program specific competencies as identified by the AST Core Curriculum. Restricted to Carlsbad campus only.

### SURG 160. Surgical Procedures II 6 Credits (6)

This an introduction to surgical procedures and related pathologies. Emphasis on surgical procedures related to thoracic, peripheral vascular, plastic/reconstructive, ophthalmology, cardiac and neurological surgical specialties incorporating instruments. The course is designed to prepare the student to continue to function actively in the surgical environment with entry-level knowledge of more complex surgical procedures. This course expands the basic foundation principles and combines the study of complex surgical procedures to include anatomy, physiology, and pathophysiology. Specific patient care concepts, medications, instrumentation, equipment, supplies, and complications related to specific surgical procedures will be discussed. Realities of clinical practice and concepts of death and dying will also be discussed. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 150, SURG 260.

### SURG 230. Professional Readiness 2 Credits (2)

This course transitions the student into professional readiness for employment, professional readiness for attaining certification and professional readiness for maintaining certification status. Admission to Surgical Technology Program necessary to enroll in the course. **Prerequisite(s):** SURG 140, SURG 145, SURG 120, SURG 150, SURG 260. **Corequisite(s):** SURG 160,SURG 265.

### SURG 260. Surgical Technology Clinical II 4 Credits (12P)

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. This course is designed to provide the student the opportunity to function actively in the role as a surgical technologist and health care team member in a clinical setting under the direct supervision of faculty and health care staff. Applications of basic principles and practices combined with a supervised clinical experience participating in common surgical procedures is the focus. Admission to Surgical Technology Program necessary to enroll in the course. Restricted to Community Colleges campuses only.

Prerequisite(s): SURG 120, SURG 140, & SURG 145.

### SURG 265. Surgical Technology Clinical III 4 Credits (9P)

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. This course is designed to provide the student the opportunity to function actively in the role of a surgical technologist and health care team member in a clinical setting under the direct supervision of faculty and health care staff. Refinement and application of basic principles and practices combined with entry-level employment competency expectations is the focus. Preparation for the National Certification Examination for Surgical Technologists is also included. Admission to Surgical Technology Program necessary to enroll in the course. **Prerequisite(s):** SURG 260.

### TCEN-ENVIRONMENTAL/ENERGY TECH (TCEN)

### TCEN 101. Energy for the Next Generation 3 Credits (2+2P)

This course will survey a broad range of sources of energy, types of energy, energy storage, and the forms of energy. Students will be exposed to theory in the classroom, laboratory exercises, and field trips to provide them with a solid foundation for all subsequent energy related environmental courses. Crosslisted with: OETS 101.

**Prerequisite(s)/Corequisite(s):** OETS 118 or MATH 1215. Restricted to: Community Colleges only.

### TCEN 105. Building Analyst I

### 3 Credits (2+2P)

This course is designed to provide the foundational knowledge and expertise necessary for the energy auditor and home performance contractor. Crosslisted with: OETS 105. Restricted to: Community Colleges only.

#### TCEN 106. Building Analyst II 3 Credits (2+2P)

Designed to prepare the student for the BPI Building Analyst Certification. This course will walk the student through the hands-on process of conducting visual building inspections, diagnostic testing, identifying improvement opportunities, documenting a home's performance and preparing a scope of work. Crosslisted with: OETS106.

**Prerequisite(s)/Corequisite(s):** TCEN 105 or OETS 105. Restricted to: Community Colleges only.

### TCEN 110. Photovoltaic Application 4 Credits (3+2P)

This course will provide an introduction to Photovoltaic (PV) installation. The course will provide instruction on site selection, prep, installation, and maintenance for photovoltaic applications. Students that complete the course and have the opportunity to take the entry level exam with the North American Board of Certified Energy Practitioners (NABCEP) en route to becoming Certified Installers. Crosslisted with: OETS110. **Prerequisite(s)/Corequisite(s):** TCEN 101 or OETS 101. Restricted to: Community Colleges only.

### TCEN 111. Basic Electrical Principles I, DC Circuits 4 Credits (3+2P)

Course begins with the basics of electricity and DC circuits. Includes categorization of material properties within conductors, semiconductors, and insulators. Gradual progression tackles more complex topics like DC circuit analysis of series and parallel circuits, including Kirchhoff's laws, Thevenin's & Norton's theorems, and superposition. Finally DC combination circuits, magnetism and electromagnetism, generators and motors are covered. Emphasis on safety throughout. May be repeated up to 4 credits.

**Prerequisite(s)/Corequisite(s):** OETS 104 or MATH 1215. Restricted to Community Colleges campuses only.

### TCEN 112. PV Power Generation Design Fundamentals 3 Credits (2+2P)

A study of photo voltaic design basics, photo voltaic (PV) Cells, modules, and system components; electrical circuits; grid-tied/grid-interactive PV system design and sizing for use on homes; solar electric products and applications; and understanding energy conversion from sunlight to electricity, and working with solar conversion equipment. May be repeated up to 3 credits.

**Prerequisite(s)/Corequisite(s):** TCEN 111 and (OETS 104 or MATH 1215). Restricted to Community Colleges campuses only.

### TCEN 113. OSHA 10 Hour Construction Hazard Identifications 1 Credit

Intended for entry-level participants to provide instruction on a variety of construction safety and health standards. Topics include Introduction to OSHA, Electrical, Ladder, Excavation, Scaffold, and Forklift Hazards, Fall Protection, Materials Handling, Personnel Protective Equipment and Confined Space Entry Hazards. Meets OSHA 10-Hour Requirements.

#### TCEN 115. Wind Power Generation Design Fundamentals 3 Credits (2+2P)

Course covers wind turbine module descriptions and functions and wind system installation, operation, and troubleshooting. Additional topics include wind energy harvesting and the conversion process from the generator system to electricity. May be repeated up to 3 credits. **Prerequisite(s)/Corequisite(s):** TCEN 111 and (OETS 104 or MATH 1215). Restricted to Community Colleges campuses only.

### TCEN 121. Basic Electrical Principles II, AC Circuits 4 Credits (3+2P)

Course begins with an overview of the primary components of AC circuits, such as resistors, inductors, rectifiers, transformers and capacitors, and then gradually introduces new, more complicated topics like applying AC principles in power generation and generators, motors, parallel and combination circuits, troubleshooting and evaluation of circuit conditions. May be repeated up to 4 credits.

**Prerequisite(s)/Corequisite(s):** TCEN 111 and (OETS 104 or MATH 1215). Restricted to Community Colleges campuses only.

### TCEN 156. Building Envelope

### 3 Credits (2+2P)

Designed to prepare the student for the BPI Building Envelope Certification. This course will provide the principles behind building performance testing and the purpose of completing a comprehensive energy audit. Through lecture and subsequent field training, the student will learn how to use building diagnostics to develop a prescriptive plan for enhancing comfort, health & safety, building durability, and energy savings. The student will learn how to outline the follow-up process required after completion of the retrofit. Crosslisted with: OETS156. Restricted to: Community Colleges only. **Prerequisite(s):** TCEN 106 or OETS 106.

TCEN 205. NEC for Alternative Energy

### 4 Credits (2+4P)

This hands-on course will cover the National Electrical Code specifics concerning photovoltaic installation. Also code compliant wiring of basic electrical systems will be covered. Existing installations will be visited and studied. Restricted to: Community Colleges only. **Prerequisite(s):** TCEN 101 and ELT 105.

### TCEN 220. Cooperative Experience

#### 1-3 Credits (1-3)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. May be repeated up to 6 credits. Consent of Instructor required.

**Prerequisite(s)/Corequisite(s):** MAT 235. Prerequisite(s): TCEN 180. Restricted to: TCEN majors. Graded: S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

### TCEN 221. Roofing Materials and Methods 3 Credits (2+2P)

Covers application techniques and estimation of asphalt and wood roofing products and accesories including gutters and flashing. Presents roof penetration, roof loading issues, and energy system installation requirements for mounting photo voltaic or solar thermal systems. **Prerequisite(s):** TCEN 112.

### TCEN 222. Photo Voltaic Grid Tie Installation 4 Credits (3+2P)

This is a more advanced course culminating in a PV system-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.

Prerequisite(s): TCEN 112. Prerequisite(s)/Corequisite(s): TCEN 222.

### TCEN 224. Field Experience

### 1-3 Credits (1-3)

Student will collaborate with instructor in proposing, defining, implementing, and analyzing outcomes of a project in the Environmental and Energy fields of study. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: TCEN majors. Restricted to: Community Colleges only.

### TCEN 241. Solar Thermal SHW Principles/Installation and Maintenance 3 Credits (2+2P)

Course presents the theory, installation, operation, and maintenance of solar hot water (SHW) systems. Topics include the types of systems to choose, the costs associated with SHW installation and operation, system sizing requirements, batteries and battery chemistry. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OETS 104 or MATH 1215.

### TCEN 246. Building Weatherization & Auditor Fundamentals 3 Credits (3)

Course provides information on how to locate air leaks and identify heat losses or gains through specific testing. Students will learn how to inspect and evaluate building envelopes, mechanical systems, and ventilation systems to determine the safety and energy consumption for each system. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): TCEN 113 and OETS 104. Corequisite(s): TCEN 221.

### TCEN 251. Advanced Photo Voltaic On/Off Grid Installation 3 Credits (2+2P)

Photo Voltaic advanced topics to include panel racking and installation, battery storage, charge controllers, mechanical integration of arrays on buildings, and key elements involved in choosing a mounting system. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 222. Restricted to Community Colleges campuses only.

### TCEN 252. NABCEP Entry-Level Exam Review 2 Credits (2)

Course presents knowledge, key terms, and concepts of photovoltaic systems and solar hot water systems as related to the NABCEP 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. Restricted to Community Colleges campuses

Prerequisite(s): TCEN 222.

### TCEN 253. Renewable Energy System Troubleshooting and Maintenance 3 Credits (2+2P)

Covers wind, solar and solar thermal system troubleshooting and maintenance topics to include equipment, electrical, and installation problem areas. May be repeated up to 3 credits.

**Prerequisite(s)/Corequisite(s):** TCEN 251. Prerequisite(s): TCEN 222. Restricted to Community Colleges campuses only.

### TCEN 254. Renewable Energy Internship

### 2 Credits (2)

Student will receive industry-related renewable energy experiences at an approved industry location. Typical areas of hands-on practices will be installing solar PV, solar hot-water systems, or wind energy systems. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): TCEN 112 and 113 and 222.

### THEA-THEATER

### THEA 1110G. Introduction to Theatre

### 3 Credits (3)

This course provides an introduction to the study of theatre. Students will examine various components that comprise theatre, such as acting, directing, playwriting, dramaturgy, scenic and costume design, stagecraft, spectatorship, history, theory, and criticism.

### THEA 1210G. Acting for Non-Majors 3 Credits (3)

This class gives non-majors experience in the depth and craft of the actor's art. Students will learn various terms, techniques, and practices of acting and will demonstrate their understanding in class. Through exercises and improvisations, partnered scenes, and group work, students will be better able to appreciate the work of others as they learn techniques of performing. May be repeated up to 3 credits.

### THEA 1221. Beginning Acting

### 3 Credits (3)

Basic understanding of self-expression through a variety of physical exercises, improvisation, and character study, culminating in scene or monologue work. Restricted to: THTR majors.

#### THEA 1222. Stage Movement 3 Credits (3)

Physical techniques for the actor to develop kinesthetic awareness and skills in characterization, archetypes, and stage combat. Restricted to: THTR majors.

### THEA 1223. The Art of Theatre 3 Credits (3)

This course introduces the variety and scope of theatre professions, the value and goals of the theatre major and an analysis of the art form from script to stage. Restricted to: Required for THTR majors majors.

### THEA 1310. Introduction to Costuming

### 3 Credits (3)

This course introduces students to basic skills generally used in creating costumes for theatre. During the semester students will be introduced to the costume shop, equipment, supplies, and processes. They will learn the process of sewing a garment and running a stage production. **Prerequisite(s)/Corequisite(s):** THEA 1310L. Restricted to: THTR majors.

### THEA 1310L. Costume Craft Lab

1 Credit (1)

Class members will assist in construction for productions in a studio environment.

Prerequisite(s)/Corequisite(s): THEA 1310.

### THEA 1415. Running Crew I

### 2 Credits (1+2P)

Students learn about backstage and front of house production positions and work on a technical aspect of a product in a rehearsal and performance environment.

### THEA 2221. Intermediate Acting: Scene Study and Monologues 3 Credits (3)

Monologues and scene work, using character and script analysis. Prerequisite(s):

Prerequisite(s): THEA 1221 or THEA 1210 with C- or above.

### THEA 2222. Intermediate Acting for Non-Majors 3 Credits (3)

A continuation of THEA 1210 with an emphasis on monologues, scenes and characterization. Prerequisite(s): THEA 1210

### THEA 2310. Stagecraft

#### 3 Credits (3)

Student will explore basic skills for scenic designers and techniques of set construction for the stage, including building scenery, rigging, painting and properties.

Prerequisite(s)/Corequisite(s): THEA 2310L.

### THEA 2310L. Stagecraft Laboratory

#### 1 Credit (1)

Class members will assist with construction for productions in a studio environment.

Prerequisite(s)/Corequisite(s): THEA 2310.

### THEA 2340. Introduction to Design

### 3 Credits (3)

Introduction into our visual world via the language of designers, focusing on collaboration, creative thinking and presentation skills. The varied design professions in theatre and the performing arts will be explored. Restricted to: Required of all THTR Majors.

### THEA 2415. Running Crew II

### 1 Credit (1)

Students learn about backstage and front of house production positions and work on a technical aspect of a product in a rehearsal and performance environment.

### THEA 2421. Vocal Production for the Actor 3 Credits (3)

Exploration and development of the actor's vocal instrument, including relaxation, projection, diction and articulation. May be repeated up to 3 credits. Restricted to: THTR majors.

### THEA 2993. Theatre Workshop I

### 0.5 Credits (.5)

Required for all freshman and sophomore theatre majors, this course coordinates all processes within Theatre Arts, providing a forum for discussion and feedback. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

### THEA 2996. Theatre Topics

### 1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 9 credits.

### WATR-WATER UTILITIES (WATR)

#### WATR 120. Introduction to Water Systems

#### 3 Credits (3)

Introduction to and theory of groundwater sources, production, treatment, and distribution.

### WATR 130. Wastewater Collection and Basic Treatment Systems 3 Credits (3)

Introduction to wastewater characteristics, collection, and basic treatment operations.

#### WATR 140. Applied Water and Wastewater Math I

#### 3 Credits (3)

Introduction to basic water and wastewater mathematics, flows through distribution networks and collection systems, and fundamentals of flow measurement.

Prerequisite: CCDM 114 N or equivalent.

### WATR 160. Systems Maintenance

### 4 Credits (2+4P)

Basic tools, equipment, maintenance schedules, chlorinator troubleshooting, and chlorine safety. Hands-on training with valves, pumps, meters and chlorination equipment.

### WATR 175. Programmable Logic Controllers

#### 2 Credits (2)

This course will introduce students to electrical safety, theory, and the function, operations, programming and troubleshooting of the PLC controlling common electrical components utilized in control circuits associated with the water and wastewater industry. Restricted to: Community Colleges only.

### WATR 180. Water Chemistry

#### 3 Credits (3)

Basic chemistry with applications to water and wastewater analysis. **Prerequisite:** CCDM 114 N or consent of instructor.

### WATR 182. Water Chemistry Analysis

### 1 Credit (3P)

Beginning water and wastewater laboratory analysis including gravimetric, volumetric, and quality control techniques. **Prerequisite:** CCDM 114 N or equivalent or consent of instructor.

### WATR 190. Water and Wastewater Microbiology

### 3 Credits (3)

Overview of microorganisms associated with water and wastewater. Growth and reproduction, energy production, and methods of counting. **Prerequisite:** WATR 130, WATR 180, or consent of instructor.

### WATR 192. Water and Wastewater Microbiological Analysis 1 Credit (3P)

Introduction to water and wastewater treatment operational tests such as BODs, solids testing, activated sludge control tests, use of microscope, and bacteriological techniques.

Prerequisites: WATR 130 and WATR 182, or consent of instructor.

### WATR 200. Internship

### 3-5 Credits

On-the-job training/work experience with municipalities or industries, working in water or wastewater treatment plants, high purity water plants, industrial waste plants, distribution systems, or wastewater collection systems. May be repeated up to 5 credits. Consent of Instructor required. Restricted to: Water Technology majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

### WATR 220. Water Treatment Systems

#### 3 Credits (3)

Theory of water systems operation including surface water treatment, fluoridation, sodium zeolite softening, corrosion control, iron removal, various filtration methods, and overview of SDWA.

Prerequisites: WATR 180 and WATR 182 or consent of instructor.

### WATR 222. Water Systems Operation

### 1 Credit (3P)

Operations of various water treatment systems including surface water treatment, sodium zeolite softeners, and various filtration methods. **Prerequisite:** WATR 220 or consent of instructor.

### WATR 230. Advanced Wastewater Treatment

### 4 Credits (4)

Calculations and operations involved in wastewater and water reclamation plants.

Prerequisites: WATR 140, WATR 190, and WATR 192, or consent of instructor.

### WATR 232. Wastewater Systems Operations

### 1 Credit (3P)

Operation of pretreatment, primary, and biological treatment units. **Prerequisite:** WATR 230 or consent of instructor.

### WATR 240. Advanced Water and Wastewater Math II

#### 3 Credits (2+2P)

Advanced water and wastewater mathematics. Flow measurement. Systems head and pump curves. Prereguisites: WATR 140.

### WATR 250. Municipal Systems Management

4 Credits (4) Management of water utility systems including laws, finance, records, and safety.

Prerequisites: WATR 120, WATR 130.

### WATR 270. Special Topics

### 1-4 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

### WATR 275. Certification Review 3 Credits (3)

Review of water and wastewater plant operations and laws in preparation for state certification exams. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): WATR 120, WATR 130, WATR 140, WATR 160.

### WATR 285. High Purity Water Treatment Systems 3 Credits (3)

Principles of high purity water production including microfiltration, ultrafiltration, reverse osmosis, and deionization. **Prerequisite:** WATR 220.

### WATR 287. Advanced Water Chemistry Analysis 3 Credits (6P)

Sampling techniques, analysis, and evaluation of potable water contaminants using gravimetric, volumetric, spectrophotometric, and other instrumentation methods. May be repeated up to 3 credits. **Prerequisite(s)/Corequisite(s):** WATR 285. Restricted to Community Colleges campuses only.

### WATR 290. Advanced Wastewater Microbiology and Chemistry 3 Credits (3)

Covers NPDES permits and DMR calculations and reporting; 503 sludge regs, including pathogen and vector attraction reduction and pollutants; wetlands, composting, and wastewater treatment ponds microbiology; activated sludge bulking and foaming microbiology and treatment; and use of selector to remove nutrients and prevent the growth of filamentous bacteria.

Prerequisite: WATR 190, WATR 192.

### WATR 292. Advanced Wastewater Analysis 3 Credits (6P)

Covers sampling techniques, analysis, and evaluation of wastewater contaminants using gravimetric, volumetric, spectrophotometric, and other instrumentation methods.

Prerequisite: WATR 190 and WATR 192.

### WELD-WELDING TECHNOLOGY (WELD)

#### WELD 100. Structural Welding I 6 Credits (3+6P)

Development of basic skills in SMAW, OFC, and OFW in accordance with the AWS entry-level welder program.

### WELD 101. Fundamentals of Welding

### 3 Credits (3)

Set-up and adjustment of ARC and oxyacetylene equipment. Welding safety procedures and terminology. Skill development in laying weld beads with various patterns, positions, and processes.

### WELD 102. Welding Fundamentals

### 3 Credits (2+2P)

Survey of welding and cutting processes for nonmajors. Classroom instruction and laboratory work with OFC/OFW, SMAW, GMAW, FCAW, and plasma arc cutting.

### WELD 105. Introduction to Welding

### 3 Credits (3)

Welding practices, procedures, and terminology. Welding safety, equipment types, electrode types in usage, joint design and testing procedures.

#### WELD 110. Blueprint Reading (Welding) 3 Credits (3)

Interpretation of prints related to welding. Emphasis on AWS standard symbols for welding, brazing, and nondestructive examination.

### WELD 115. Structural Welding II 6 Credits (3+6P)

Continuation of WELD 100. Emphasis on AWS entry and advanced level welder skills with SMAW, including all-position welding with mild and stainless steel electrodes. Plasma arc and air-carbon arc cutting, metallurgy, heat treatment, and weld defects. **Prerequisite:** WELD 100.

### WELD 120. Basic Metallurgy

### 3 Credits (3)

Properties of ferrous and nonferrous materials. Service conditions and heat treatment of metals related to welding trade.

Prerequisites: WELD 100 or consent of instructor.

### WELD 125. Introduction to Pipe Welding 3 Credits (2+2P)

Pipe fit-up and welding techniques for pipe fitting and pipe weld joint using SMAW, GMAW, GTAW, and FCAW, 2G welding of pipe. Restricted to: Community Colleges only.

**Prerequisite(s):** WELD 100, WELD 130, and WELD 140, or consent of instructor.

### WELD 126. Industrial Pipe Welding

3 Credits (3) Enhancement of WELD 125. Development of more advanced pipe welding skills.

Prerequisite(s): WELD 110, WELD 130 and WELD 140. Corequisite(s): WELD 125.

### WELD 130. Introduction to GMAW MIG)

### 3 Credits (2+2P)

Development of basic skills with gas metal arc welding (MIG) in accordance with AWS entry-level welder objectives. Wire electrodes, shielding/purge gases, and modes of metal transfer.

### WELD 140. Introduction to GTAW TIG) 3 Credits (2+2P)

Development for basic skills with gas tungsten arc welding (TIG) in accordance with AWS entry/advanced welder objectives. Welding mild steel, tungsten electrode preparation, filler wire selection, and equipment set-up.

### WELD 150. Pipe Welding II

#### 3 Credits (2+2P)

Continuation of WELD 125; with fillet and groove welded joints in a horizontal fixed and 45-degree fixed positions (5-F, 5-G, 6-F, 6-G). **Prerequisite:** WELD 125.

### WELD 151. Industrial Pipe Welding II

### 3 Credits (3)

Enhancement of WELD 150. Development of more advanced pipe welding skills. Emphasis on industry driven test.

Prerequisite(s): WELD 125 and WELD 126. Corequisite(s): WELD 150.

### WELD 160. Introduction to SAW and FCAW 3 Credits (2+2P)

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., P.E., 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

### **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

*Cavalcante, Roseli,* Associate Professor of Psychology; Ph.D., Indiana 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

*Eckerd, Lance E.,* Assistant Professor of Mathematics; M.A., University of Northern Colorado

*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

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 *Overstreet, David,* College Assistant Professor of Criminal Justice; J.D., University of Alabama

*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

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	140
About NMSU Alamogordo	4
Accounting/Bookkeeping - Certificate	100
Accreditation	5
ACCT-ACCOUNTING	140
ACES-AGRI, CONSUMER & ENV SCIE	141
Admissions	5
Advanced Renewable Energy Systems - Certificate	131
AEEC-AGRICULTURAL ECON/ECON	141
AERO-AEROSPACE STUDIES	141
AERT-AEROSPACE TECHNOLOGY	142
AGRO-AGRONOMY	143
AHS-ALLIED HEALTH SCIENCE	143
Alamogordo Academic Catalog	4
Allied Health	88
Allied Health - Associate of Science	89
ANSC-ANIMAL SCIENCE	143
ANTH-ANTHROPOLOGY	145
ARCH-ARCHITECTURE	145
ART-ART	147
ARTH-ART HISTORY	147
Arts	93
Arts - Associate of Arts	94
ARTS-ART STUDIO	147
ASTR-ASTRONOMY	149
AUTO-AUTOMOTIVE TECHNOLOGY	150
Automotive and Hybrid Technology	95
Automotive and Hybrid Technology - Associate of Applied Science	. 95
Automotive Diagnostic Specialist - Certificate	96
AVIM-AVIATION MAINTENANCE	152
AXED-AGRICULTURAL EXTN EDUC	152
В	

B A-BUSINESS ADMINISTRATION	153	DAS-DENTAL ASSISTING	171
BCHE-BIOCHEMISTRY	153	Degrees & Certificates	. 87
BCIS-BUSINESS COMPUTER SYSTEMS	153	DHYG - DENTAL HYGIENE/HYGIENIST	172
BCT-BUILDING CONSTRUCTION TECH	153	DMS-DIAGNOSTIC MED SONOGRAPHY	174
BFIN-BUSINESS FINANCE	155	DRFT-DRAFTING	176
BIOL-BIOLOGY	155	E	
BLAW-BUSINESS LAW	156	E E-ELECTRICAL ENGINEERING	179

BLED-BILINGUAL EDUCATION	156
BMGT-BUSINESS MANAGEMENT	157
BOT-BUSINESS OFFICE TECHNOLOGY	159
BUSA-BUSINESS ADMINISTRATION	159
Business Management	97
Business Management (Accouting/Bookkepping) - AAS	97
Business Management (Administrative Support) - AAS	. 98
Business Management (General Management) - AAS	99

### C

C E-CIVIL ENGINEERING	159
C S-COMPUTER SCIENCE	159
CCDE-DEVELOPMENTAL ENGLISH	160
CCDM-DEVELOPMENTAL MATHEMATICS	160
CCDR-DEVELOPMENTAL READING	161
CCDS-DEVELOPMENTAL SKILLS	161
CEPY-COUNSELING & EDUCATIONAL PSYCHOLOGY	161
CHEF-CULINARY ARTS	162
CHEM-CHEMISTRY	164
CHIN-CHINESE	165
CHME-CHEMICAL & MATERIALS ENGR	165
CHSS - COMM HEALTH/SOC SRVCS	166
CJUS-CRIMINAL JUSTICE	166
COMM-COMMUNICATION	166
Common Course Numbering Crosswalk	. 47
Computer Science	101
Computer Science - Associate of Applied Science	102
Course Descriptions	137
Course Placement	7
Criminal Justice	103
Criminal Justice - Associate Degree	104
CSEC-CYBERSECURITY	167
CTEC-CYBER TECHNOLOGY	167
CTFM-CLTHNG/TXTLS/FSHN MRCHDSG	169
D	
DANC-DANCE	169
DAS-DENTAL ASSISTING	171
Degrees & Certificates	. 87
DHYG - DENTAL HYGIENE/HYGIENIST	172
DMS-DIAGNOSTIC MED SONOGRAPHY	174
DRFT-DRAFTING	176

 General Education Courses
 9

 General Engineering
 120

 General Engineering - Associate of Science
 120

 General Information
 5

 General Management - Certificate
 101

 GEOG-GEOGRAPHY
 198

 GEOL-GEOLOGY
 199

E T-ENGINEERING TECHNOLOGY	179
Early Childhood	105
Early Childhood - Associate Degree	106
ECED-EARLY CHILDHOOD EDUCATION	182
ECON-ECONOMICS	184
EDLT-EDUCATIONAL TECHNOLOGY	184
EDUC-EDUCATION	184
Education	107
Education (Elementary) - Associate Degree	108
Education (Secondary Math) - Associate Degree	110
Education (Secondary Science) - Associate Degree	112
ELAD-EDUCATIONAL LEADERSHIP ADMINISTRATION	185
Electrocardiogram Technician - Certificate of Achievement	. 91
ELT - ELECTRONICS TECHNOLOGY	185
ELWK-ELECTRICAL LINEWORKER	186
Emergency Medical Services (EMS) Intermediate	113
Emergency Medical Services (EMS) Intermediate - Associate of Ap Science	
EMS Course Completion Certificates	115
Engine Performance and Transmission Specialist - Certificate	. 96
Engineering Technology	115
Engineering Technology (Biomedical Equipment) - AAS	117
Engineering Technology (Electornics) - AAS	116
ENGL-ENGLISH	187
ENGR-ENGINEERING	189
ENTR-ENTREPRENEURSHIP	189
ENVS-ENVIRONMENTAL SCIENCE	189
EPWS-ETMLGY/PLNT PTHLGY/WD SCI	189

### F

FCSC-FAMILY AND CONSUMER SCIENCES 189	
FCST-FAMILY AND CHILD STUDIES 190	
FDMA-FILM & DIGITAL MEDIA ARTS 190	
Financial Aid & Scholarship Services 7	
Fine Arts 118	
Fine Arts - Associate Degree 119	
FIRE-FIRE INVESTIGATION 194	
FREN-FRENCH 196	
FSTE-FOOD SCIENCE & TECHNOLOGY 197	
FWCE-FISH,WILDLF,CONSERV ECOL 197	
FYEX-FIRST YEAR EXPERIENCE 197	
C	

# 07 GNDR-WOMEN'S STUDIES 199 08 Graduation Requirements 12 10 Graphic Design 122 12 Graphic Design - Associate of Applied Science 122 12 Graphic Design - Certificate 123 13 GRMN-GERMAN 199 14 HIST-HISTORY 200 13 HIT-HEALTH INFO TECHNOLOGY 201

HT-HEALTH INFO TECHNOLOGY	201
ILED-HEALTH EDUCATION	202
HMSV-HUMAN SERVICES	202
INRS-HONORS	202
HORT-HORTICULTURE	204
HOST-HOSPITALITY AND TOURISM	204
IRTM-HOTEL/RESTRNT/TOURISM MGT	205
IVAC-HEATING/AC/REFRIGERATION	206

I E-INDUSTRIAL ENGINEERING	207
Information Technology	123
Information Technology - Associate of Applied Science	124
INMT - INDUSTRIAL MAINTENANCE	207
INTEGRATED NATURAL SCIENCES	208
International Student Admission	. 14

### J

JAPN-JAPANESE	208
JOUR-JOURNALISM	209

### L

L SC-LIBRARY SCIENCE	209
LANG-LANGUAGE	211
LAWE-LAW ENFORCEMENT	211
Leadership Skills - Certificate	101
Legal Assistant - Certificate	126
LIBR-LIBRARY SCIENCE	212
LING-LINGUISTICS	212

G

GENE-GENETICS ..... 198

### Μ

M E-MECHANICAL ENGINEERING	212	P
M SC-MILITARY SCIENCE	213	Pı
MAT-AUTOMATION & MANUFACTURING	213	Pı
MATH-MATHEMATICS	214	P
Medical Assistant - Associate of Applied Science	91	R
MGMT-MANAGEMENT	216	R
Military and Veterans Programs (MVP)	15	R
MKTG-MARKETING		_
	216	R
MUSC-MUSIC		

### Ν

NA - NURSING ASSISTANT	218
NAV-NAVAJO	220
NGEC-NATURAL GAS ENGINE COMP	220
NMSU System Academic Regulations	25
NURS-NURSING	220
Nurse Aide Theory & Lab - Certificate of Achievement	92
NUTR-NUTRITION	224

### 0

OATS-OFFICE ADMINISTRATION TECHNOLOGY SYSTEMS	224
OEBM-BIOMEDICAL TECHNOLOGY	226
OECS-COMPUTER TECHNOLOGY	227
OEEM- PARAMEDIC	229
OEET- ELECTRICAL TRADES	232
OEGR-DIGITAL GRAPHIC TECH	232
OEGS-GEOGRAPHIC INFO SYS	232
OETS-TECHNICAL STUDIES	233
Online Degrees/Certificates	125

### Ρ

Paralegal Studies	126
Paralegal Studies - Associate of Applied Science	127
Personnel	250
PHED-PHYSICAL EDUCATION	233
PHIL-PHILOSOPHY	234
Phlebotomist Technician - Certificate of Achievement	. 92
PHLS-PUBLIC HEALTH SCIENCES	234
Photo Voltaic Entry Level - Grid Tie - Certificate	131
Photographic Technology	128
Photographic Technology - Certificate	128
PHYS-PHYSICS	234
PL-S-PARALEGAL SERVICES	236

	POLS-POLITICAL SCIENCE	237
12	PORT-PORTUGUESE	238
13	Prebusiness	129
13	Prebusiness - Associate Degree	129
14	PSYC-PSYCHOLOGY	238
91	R	
16	RADT-RADIOLOGIC TECHNOLOGY	238
15	Recognition of Academic Achievement	. 18
16	Renewable Energy Systems Technology	130
16	Renewable Energy Systems Technology - Associate of Applied Sci	
10	Resources for Students	18
18	RESP - RESPIRATORY THERAPY	239
20 20	RGSC-RANGE SCIENCE	240

### S

0	
San Juan College Surgical Technology Program	92
Science	133
Science - Associate Degree	133
SIGN-SIGN LANGUAGE	241
SMET-SCIENCE/MATH/ENG/TECH	241
SOCI-SOCIOLOGY	241
Social Work	135
Social Work - Associate Degree	135
SOIL-SOIL	241
SOWK-SOCIAL WORK	242
SPAN-SPANISH	242
SPED-SPECIAL EDUCATION	243
SPHS-SPEECH & HEARING SCIENCE	243
SPMD-SPORTS MEDICINE	243
Student Organizations & Activities	22
SUR-SURVEYING	244
SURG-SURGICAL TECHNOLOGY	244
т	
TCEN-ENVIRONMENTAL/ENERGY TECH	245
THEA-THEATER	247
Transfer Students	22
Tuition, Fees, and Other Expenses	23
W	
WATR-WATER UTILITIES	248
Welcome from the President	4
WELD-WELDING TECHNOLOGY	249
Welding	137

Welding - Certificate ..... 137