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GRANTS ACADEMIC CATALOG

New Mexico State University

Grants

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Fax: (505) 287-2329
TDD: (505) 287-7981
<http://grants.nmsu.edu>

2017-2018 Catalog

Academic programs at NMSU Grants are available to all students regardless of age, ancestry, color, disability, gender, national origin, race, religion, sexual orientation, or veteran status.

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

Catalog effective summer 2017 through spring semester 2023.

The NMSU Grants Undergraduate Catalog is available online at <http://grants.nmsu.edu>.

PRESIDENT'S WELCOME

Welcome to NMSU Grants!

Like the many languages we use in the greeting banner on our website, our College is steeped in diversity and culture, as is Northwest New Mexico and the wonderful people who live and work in Cibola County and the surrounding area.

I personally welcome you to NMSU Grants, and I hope we can help you achieve your goals. Perhaps they, like the institution itself, are diverse and changing in order to meet the future – yours and ours.

Whether you're a first time visitor to our website, an interested student or parent, or a community member who wants to learn more about what the college has to offer, we look forward to speaking with you. You may be striving to complete a High School Equivalency or have considered completing a certificate program or an Associate's degree. We offer career technical training certifications and two-year awards in a variety of areas; Automotive Technology, Criminal Justice, Education, Social Services, and Computer Science to name a few. As a public community college, NMSU Grants also offers the state general education core. These courses are guaranteed to transfer to any public four-year college or university in the state.

We are working to add additional "2 + 2" programs-of-study in conjunction with our main campus – New Mexico State University in Las Cruces. These opportunities will allow you to live in our beautiful area of the state, complete the first two years of your education with us and complete your Bachelor's degree from a distance through the internet.

I want to personally invite you to visit our campus here in Grants, New Mexico. If you would like a tour, want to speak to a Student Services professional or Program Manager, or are ready to enroll, we can help!

It's all about discovery!

Mickey D. Best, Ph.D.

President

NMSU Grants

THE UNIVERSITY

NMSU Grants Our History

NMSU at Grants was established as a branch campus of New Mexico State University in 1968 through the cooperative efforts of New Mexico State University and Grants Municipal Schools.

During the first year of operation, classes were held in the evening in the public school facilities and were taught by qualified part-time instructors from the community.

In August 1969, the college moved to its present site, which previously housed the Grants Job Corps Center. During 1977–78 a Main Building was constructed which housed the academic classrooms, student lounge, library, law library, as well as faculty and administration offices. Later the former Vocational Building and Gymnasium became Fidel Hall, which remain from the Job Corps Center, were also renovated during the same period.

In May of 1987, the Main Building was dedicated as "Walter K. Martinez Memorial Hall," in memory of Walter K. Martinez, former State Representative from 1966–1984 and Speaker of the House from 1971–1978. During his tenure in the legislature, NMSU-Grants received significant appropriations for capital improvements to plan, remodel and construct the present physical plant. In addition, two buildings were named and dedicated to leaders in the development of the NMSU at Grants Campus:

- the gymnasium became the "Joseph A. Fidel Activities Center,"
- while the new name of the Annex, the "McClure Building," honored former state Senator Frank McClure for his pioneering efforts in establishing this campus.

In the 21st century, NMSU Grants is distinguished by serving as both a Hispanic Serving Institution (HSI) and a Non-Tribal Native American Serving Institution (NASNTI). This reflects the local service base of Cibola and Catron counties, including the tribal communities of the Laguna Pueblo, Acoma Pueblo and Navajo Nation.

Academic programs at NMSU Grants range from a bachelor's of science in nursing to a variety of associate and applied science associate degrees as well as a wide range of certificates that prepare students for additional bachelor's study or careers in trades, technology or health and social services. Recently NMSU Grants has increased collaboration with area schools including Grants Cibola County Schools and Pine Hill High School to foster dual enrollment opportunities. Additional emphasis is on our GED program, increases in our on-line course offerings, and efforts to hire and retain highly qualified professional faculty and staff. These activities all contribute to the institutional mission of providing quality education through innovative teaching and learning that promotes respect for our diverse students and community.

Mission, Vision, & Values

Mission Statement: NMSU Grants provides an accessible quality education through innovative teaching and learning that promotes respect and service for our diverse students and community.

Vision Statement: To embrace innovation in teaching and learning to promote a sustainable prosperous community.

Values Statement: We value:

- Personal Success
- Growth
- Respect
- Healthy Lifestyles
- Teamwork
- Community Partnerships
- Stewardship
- Excellence
- Integrity
- Positive Attitude
- Employability
- Empowerment
- Intellectual Inquiry
- Social Justice
- Creativity
- Safe Environment

NMSU Grants Institutional Learning Outcomes

Goals	Goal Articulation
Critical Thinking and Problem Solving	Actively and skillfully engage in the process of analyzing and evaluating in order to make judgments to solve problems.
Goal Setting and Initiative	Develop self-motivation and self-confidence in identifying and ranking priorities for achievements in life.
Technology and Information Literacy	Use technology effectively as a tool for communication and to complete tasks as well as to locate, evaluate and use information.
Professionalism	Use time management to meet deadlines and approach collaborations objectively.
Citizenship	Improve and affect positive change in communities at all levels including sustainability and global issues.
Lifelong Learning	Expose students to new and diverse modes of learning to spark a continuing quest for knowledge.
Reading/Writing/Math Ability	Acquire foundational abilities in reading, writing, and math that will enhance future studies, career, and citizenship.
Diversity and Cultural Value	Celebrate and enhance students' sense of identity while encouraging inclusion and empathy.
Communication Skills	Practice essential listening, speaking, writing, and other forms of communication to advance and share ideas.

Ethics	Develop principles and standards of behavior supporting honesty and integrity while avoiding dishonesty and harm.
Commitment and Leadership	Cultivate perseverance and the ability to move ideas and positions forward.
Creativity	Foster and amplify innovation and imagination by connecting creative efforts to enhance life experiences.

all students throughout the year related to sexual assault, domestic violence, dating violence, and stalking.

This training is mandatory for all new students and employees. Students will be required to attend the mandatory New Student Orientation as well as complete the online Campus SaVE training prior to completing course registration.

To report incidences, contact the Vice President of Student Services at NMSU Grants, at (505) 287-6628. Additional information, visit the Dean of Students' website at deanofstudents.nmsu.edu (<http://deanofstudents.nmsu.edu>).

NMSU Graduation and Retention Rates

These rates may be found on the NMSU Institutional Research web site at <https://oia.nmsu.edu>.

Gainful Employment regarding Certificate Programs which do not lead to Associate Degrees: For information concerning the total cost, financing, time to completion, and job placement rates associated with a program, visit the following web page: <https://grants.nmsu.edu/gainful-employment/>.

Catalog Intent

The catalog is a summary of information of interest to students. Readers should be aware of the following:

1. This catalog is not a complete statement of all procedures, policies, rules and regulations. See the Schedule of Courses and the Student Code of Conduct for additional information.
2. The university reserves the right to change, without notice, any academic or other requirements, course offerings, course content, programs, procedures, policies, rules, and regulations as published in this catalog.

Special procedures, policies, rules, and regulations, whether or not contained in this catalog, may be applicable to students.

Students planning to earn degrees or certificates may elect to fulfill requirements as outlined in the catalog in effect at the date of initial enrollment or as outlined in catalogs published subsequent to their initial enrollment.

Non-Discrimination Policy

It is the policy of NMSU Grants not to discriminate based on age, color, disability, gender, national origin, race, religion, sexual orientation, or veteran status in employment or other college-administered programs. This policy is in compliance with Title VII of the Civil Rights Act of 1964, Executive Order 11246 as amended by 11375 and Section 504 of the Vocational Rehabilitation Act of 1973, the American with Disabilities Act of 1990, and Title IX of the Educational Amendments of 1972 and subsequent revisions. To report concerns at NMSU Grants, call the Vice President of Student Services at (505) 287-6628. To report concerns directly to the NMSU Office of Institutional Equity, call (575) 646-3635. You may also visit the website at: eeo.nmsu.edu (<https://eeo.nmsu.edu>).

Campus Sexual Violence Elimination Act

Campus Sexual Violence Elimination Act (Campus SaVE): Part of the Violence Against Women Act reauthorization affords additional rights to college students who are victims of sexual assault, dating violence, domestic violence, and stalking. The Act requires each campus to inform new students of their rights and to conduct continuous education to

ACCREDITATION

New Mexico State University has been accredited by The Higher Learning Commission (HLC) since 1926. The HLC may be contacted at:

The Higher Learning Commission
230 North LaSalle St., Suite 7-500
Chicago, IL 60604-1411
Phone: (800) 621-7440

ADMISSIONS

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

1. Degree-seeking student or
2. Nondegree student under the policies and conditions as set forth in this section.

Regular Admission Domestic Students

Requirements for admission as a regular student include the following:

- Formal application for admission, accompanied by a one-time \$20 nonrefundable application fee.
- An official transcript of the student's high school credits is to be sent directly from the high school to the NMSU Grants Admissions Office. Students who attended a college or university while in high school must request to have official transcripts(s) forwarded directly to the NMSU Grants Admissions Office by the Registrar of each college or educational institution previously attended.
- American College Testing Program (ACT) or Scholastic Aptitude (SAT) are not required for admission into NMSU Grants, but may be sent directly from the Testing Centers of the Undergraduate Admissions Office.

Qualifications for undergraduate admissions to NMSU are as follows:

- 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.

Home School Students

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

Admission by GED OR HiSET

Any student that has successfully completed the GED or HiSET can be considered for admission upon satisfactory scores on the General Education Development (GED) test or HiSET and the American College Program (ACT) test, and a review of minimum high school unit requirements.

Students must complete the GED and HiSET in English.

Aggie Pathways

Student applicants who do not meet NMSU Las Cruces admission requirements may apply to participate in the Aggie Pathway to the baccalaureate program at any of the NMSU community colleges. Aggie Pathway students may transition to the NMSU Las Cruces campus after successful completion of any required developmental education courses and 24 degree credits with a 2.5 cumulative college GPA. Each student will follow an individualized study plan developed in partnership

with an academic advisor that typically includes study skills courses, developmental education courses, and/or general education courses. Aggie Pathway students enrolling through NMSU Dona Ana have access to NMSU Las Cruces on-campus housing, dining, and activities. For more information, go to <http://aggiepathways.nmsu.edu>, or call (575) 646-8011.

Dual Credit for High School Students

The Dual Credit Program is designed to give high school students an opportunity to enroll at NMSU prior to high school graduation. Students must be either a junior or senior in high school and enrolled in one-half or more of the minimum course requirements approved by Public Education Department in a New Mexico public school district, locally chartered and state chartered charter school, state-supported school, or being in physical attendance at a bureau of Indian education-funded high school at least three documented contact hours per day. Under Senate Bill 158 signed by the Governor and effective July 1, 2014, support for dual credit privileges at post-secondary institutions is now available for private and home school-eligible students. Under a Statewide Dual Credit Master Agreement between NMSU and the school district, students enrolled in approved dual credit courses are eligible to have the full cost of tuition and general fees waived. Dual credit students must

- complete the Undergraduate Admission Application;
- provide official high school transcript;
- and complete the State of New Mexico Dual Credit Request Form.

Requirements to be admitted to the dual credit or early admission programs are high school grade point average (GPA) of 2.0 or an ACT Comp of 23 or equivalent SAT score and substantial progress toward completion of the following high school courses:

- 4 units of English,
- 4 units of Math (Algebra 1, Geometry, Algebra 2, and one additional math course),
- 2 units of Science (beyond General Science),
- 1 unit of a language other than English or a unit of fine art.

Consult with the NMSU Grants Student Services for more information and waivers.

Early Admission

Currently enrolled high school students, home-schooled, or Adult Education of high quality academic ability may be admitted as non-degree students prior to earning a high school diploma or equivalency. Students are responsible for all tuitions, fees, and books. Requirements include:

- NMSU Application;
- Written permission from the high school principal (or Adult Education Director), counselor, and parent/guardian;
- Official home school/high school transcript;
- College Placement Exam;
- Interview with Vice President for Student Services who will verify admission and approve courses;
- Limit to 7 credit hours

Minimum 16 years of age or equivalent of a high school student, with appropriate approval.

Readmission (Degree Seeking)

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

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

Nondegree Admission

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 interested in using nondegree credit for initial teacher certification or recertification in a new field need to contact the College of Education. Also students who wish to take a course without a graded credit may choose to audit courses with the consent of the instructor, provided the facilities are not required for regular students.

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

Transcripts from previous institutions, high school, and/or results of college entrance exams may be required to assure readiness for university-level courses. A \$20 one-time, non-refundable, non-degree application fee is required.

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

Changing from Nondegree Status

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

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.

Application Deadlines

Applications for admission as a regular student should be sent to the NMSU Grants Admissions Office at least 30 days before the beginning of the regular semester or summer session for which the student intends to enroll.

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.

NMSU Graduation and Retention Rates

These rates may be found on the NMSU Institutional Research web site at: <http://oia.nmsu.edu/data-reports/oiareports/>.

Contact Information

For more information, contact:

NMSU Grants Admissions Office
1500 Third St.
Grants, NM 87020
Phone: (505) 287-6678

INTERNATIONAL STUDENTS

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

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

U.S. Citizenship and Immigration Services (USCIS)

Some of the more important rules as established by the United States Department of Homeland Security for students in non-immigrant status such as F-1 or J-1 visa types are:

1. Each student must maintain full-time student status for both the fall and spring semesters.
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 and local phone number.
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
 - Adequate command of the English language to maintain legal status as a full-time student for the fall and spring semesters.

University Procedures for International Students

Scholastic Ability

1. Prospective undergraduates must have completed a minimum of 12 year's schooling and/or submit official diploma or completion certificate.
2. Official transcripts showing the classes taken and grades earned for the school years 10, 11, and 12 must be submitted. No hand-carried documents will be accepted unless received in a sealed envelope.
3. The scholastic average for the last three years of high school must be equivalent to 2.5 GPA on a 4.0 scale. International students are not admitted on a provisional or probationary basis.
4. Graduation from a high school in the United States does not automatically qualify an international student for admission to NMSU. The student must also submit official transcripts from his or her foreign secondary school.

Regular Undergraduate Admission and English Requirements

After regular and full admission to an NMSU degree program, each international undergraduate student is administered an English Language

Placement Test. Based on the results, the student is either assigned to SPCD 110 Intermediate ESL Composition and Grammar Review (a bridge course designed to ensure success in ENGL 111 M Rhetoric and Composition for International and Multilingual Students), or allowed to enroll directly into ENGL 111 M Rhetoric and Composition for International and Multilingual Students. International students excused from ENGL 111 M Rhetoric and Composition for International and Multilingual Students will be required to take ENGL 111G Rhetoric and Composition, including students whose native language is English. The student may then be required to complete one or more regular English classes as required for a particular degree. Completion of basic English courses at other U.S. institutions does not automatically satisfy this requirement.

English Language Proficiency

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

1. Students who are native speakers of English.
2. Students completing high school in the United States who:
 - a. have attended the high school for at least two full semesters and
 - b. have scored in at least the 75th percentile in English on the ACT.
3. Students transferring from a junior college, or university in the United States who have earned a minimum of 30 acceptable semester credits (45 acceptable quarter credits) with a GPA of 2.0 or better (acceptable credit means classes that require a high proficiency in both written and oral English).
4. Students demonstrating English-language proficiency using methods accepted by the Office of University Admissions or ISSS Office.
5. Students enrolling in certain programs where English language proficiency is not required.
6. 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 <http://celp.nmsu.edu/> for full details.

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

For complete information concerning the TOEFL examination, applicants should review the following web site: www.toefl.org (<http://www.ets.org/toefl>)

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). Undergraduate students who are conditionally admitted and complete the sequence of IELP courses will be admitted directly into ENGL 111 M Rhetoric and Composition for International and Multilingual Students. Visit <http://celp.nmsu.edu/> for full details.

Financial Support

No financial aid is available from NMSU for international students. The university reserves the right to demand advance deposit of funds for any period deemed reasonable prior to granting admission. An international student can never qualify for residency and must pay nonresident fees. Each prospective international student must submit a current financial support document with his or 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 under one of the following conditions:

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

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

March 1 ¹	for fall semester
October 1 ¹	for spring semester

¹ Contact the academic department for specific deadlines. Contact the Office of Study Abroad for exchange program admission deadlines.

requirements are met, including attending orientation and taking the English screening examination. All international students, therefore, are required to report to the appropriate office on their campus.

- Las Cruces campus: International Student & Scholar Services, Garcia Annex, room 246 (exchange students need to report to the Office of Study Abroad)
- Doña Ana Community College: International Student & Scholar Services, Garcia Annex, room 246 (exchange students need to report to the Office of Study Abroad)
- Alamogordo Community College: Office of Student Services, Student Services Building, second floor
- Carlsbad Community College: Office of Student Services, 150 University Drive, Room 111
- Grants Community College: Office of Student Services, Walter Martinez Building, Main Office Complex

4. Undergraduate students are required to carry at least 12 credits per semester. Students in 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).

Miscellaneous Regulations

1. All international students are required to have coverage at the Student Health Center except when the Las Cruces campus Student Health Center is not available to them.
2. All international students are required to purchase health insurance at the Student Health Center. Exceptions for alternate health insurance plans must be pre-approved by the ISSS Office. Students without insurance will not be allowed to register.
3. Upon arrival all international students must report to one of the following offices on the campus to which they were admitted. New international students are not permitted to register until all ISSS

TRANSFER STUDENTS

Transfer students from other colleges or universities may be accepted for undergraduate studies if they have a cumulative GPA of at least 2.0. Students who have earned 35 or fewer college credits must fulfill the freshman admission requirements by submitting an official high school transcript. Transfer students with a GPA below 2.0 may be admitted on academic probation or may be denied admission. Student must submit a letter of appeal to the Vice President for Student Services.

Transcripts

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

Transfer of Credits at NMSU

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

Any lower-division course from another institution receiving transfer credit from NMSU at the 300 or above level will be evaluated on a case-by-case basis. Transcripts may need to be reevaluated when students transfer from one NMSU college to another.

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.

Evaluation of Transfer Credits

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

Credits from non-accredited institutions may be evaluated by the student's academic dean after the student has completed two semesters in full-time status with satisfactory grades.

Currently enrolled students must obtain prior approval from their academic dean before work taken at another institution may apply toward meeting graduation requirements.

Transferring Courses to Fulfill the New Mexico General Education Common Core

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

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

Religious Center Courses in Religion

Courses in religion, offered by the various religious centers through higher educational institutions with which they are affiliated, are open to all students, and these or similar courses from other universities may be transferred for credit to this university. Registration for these courses in religion is separate from NMSU's registration and is conducted by the religious center offering the course.

No more than 6 credits in such courses may be transferred to NMSU. If a student wishes to have earned credits transferred to NMSU, the following procedures must be observed:

- Obtain written approval from the academic dean prior to registration for the course at the religious center
- Count the credit in the course as part of the total semester load
- Following completion of the course, request that the institution granting the credit send a transcript of the credit to the registrar at NMSU

National Student Exchange (NSE)

Courses transferred back to NMSU by students participating in the National Student Exchange (NSE) Program will be evaluated as NMSU 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.

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 Registrar's Office or from the Deputy Secretary for Academic Affairs,

Higher Education Department
2048 Galisteo St.
Santa Fe, New Mexico 87505-2100.

Student Responsibility

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

TUITION, FEES, AND OTHER EXPENSES

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

Campus Tuition Rates

For a full listing of all tuition rates from the NMSU system please see the **University Accounts Receivable** (<http://uar.nmsu.edu/tuition-fees/tuition-rates>) website

Additional Fees

Admission Application fee	\$20
Course delivery (per credit)	\$25
Certificate fee	\$10
Degree application fee	\$25
Degree application late filing fee	\$25
Late Registration Fee Base Cost	\$25

Course Fees (Fees Assessed per Course)

See each term's Registration Guide for lists of courses with additional fees.

Payment of Charges

By enrolling in classes at NMSU, a student makes a financial commitment to pay the tuition and fee charges associated with that enrollment. The enrollment action constitutes a financial obligation between the student and NMSU and all proceeds of this agreement will be used for 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 University Accounts Receivable. Cash, checks, money orders and limited types of credit cards are accepted. Term charges can be paid in full or paid by using a payment plan. For payment plan options visit the NMSU website. Fees vary based on the plan. All financial aid received must be paid towards balances owed. Additional penalty charges may be assessed for failure to make payments when due. The University reserves the right to deny a payment plan to any student who has a poor credit rating or who has been negligent in making payments to the University for previous debts. Course reservations may be cancelled if payment arrangements for past due dates are not completed by the deadlines as outlined in a term's registration guide. Academic credits, transcripts, and diplomas will be withheld until all financial obligations are paid. Students are prohibited from registering for a term until all previous debts due to the University are paid in full.

Tuition Adjustments, Refunds and Forfeitures

Students officially withdrawing or dropping courses during a semester or term are eligible for a 100-percent refund of tuition and fees through the deadlines listed online. Go to University Accounts Receivable (<https://uar.nmsu.edu>) and under Important Dates, click on the appropriate semester or term. Students withdrawing from courses after that deadline will not be eligible for a refund and will remain liable for full tuition and fee charges. Non-attendance does not constitute an official course drop

or withdrawal. All charges due to NMSU 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 option 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.

Delinquent and Prior-Term Balances

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

Academic credits, transcripts, and diplomas will be withheld until all financial obligations are paid.

Dishonored Financial Transactions - Checks, Credit Cards, ACH Transactions

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

Late Registration Fee

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

Estimating Other Expenses

In addition to the direct costs stated above, other expenses per semester may include such items as textbooks and supplies (estimated at \$300) and personal expenses (estimated at \$460).

Resident/Nonresident 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 NMSU Registrar's 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; <http://164.64.110.239/nmac/>, or the NM Statute (NMSA) 1978 Chapter 21; <http://www.nmonesource.com/nmnextadmin/nmpublic.aspx>

- American Indian Agreement
- Athletic Grant
- Colorado-Arizona Reciprocal Agreement
- Dual Credit
- Fire Fighter and Peace Officer Survivor Scholarship
- Foreign Military Dependent
- Foreign Military Spouse
- Foreign Military Stationed in New Mexico
- Graduate Assistantship
- Immigrant Student (NM HS GRAD)
- Military Dependent
- Military Spouse
- Military Stationed in New Mexico

- NM Competitive Scholarship
- Part-time Students
- Senior Citizen Waiver
- Summer Session
- Texas 135
- Veteran Waiver
- Western Undergraduate Exchange
- WICHE

Contact Information

For more information, contact:

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

FINANCIAL AID & SCHOLARSHIP SERVICES

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

University Financial Aid and Scholarship Services awards financial aid to students according to their individual needs. Parents of students are expected to contribute to their child's education according to their ability, taking into account their income, assets, number of dependents, and other relevant information. Students themselves are expected to contribute from their own assets and earnings, including appropriate borrowing against future income. All information provided to University Financial Aid and Scholarship Services is regarded as confidential.

Students applying for financial aid must complete a Free Application for Federal Student Aid (FAFSA) designed to determine, in accordance with state and federal guidelines, the difference between what the student or family is expected to contribute and the cost of attending NMSU. Among the factors that determine the family's Expected Family Contribution (EFC) are:

1. annual adjusted gross income as reported to the Internal Revenue Service;
2. savings, stocks, and/or bonds;
3. other assets in the form of a business, farm or real estate;
4. nontaxable income and benefits; and
5. student's prior year income and assets.

Students applying for financial aid should complete a FAFSA by visiting www.fafsa.ed.gov/ (<http://www.fafsa.ed.gov/>).

Please refer to the NMSU Financial Aid and Scholarship Services web site for more information on available financial aid. A complete listing of programs and policies is available at <http://fa.nmsu.edu>.

General Eligibility Requirements

To receive financial aid you must demonstrate the following:

That you are qualified to obtain education by:

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

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

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

- Be a U.S. citizen or eligible noncitizen (state funded scholarships are available to undocumented students).
- Have a valid Social Security number. If you don't have a Social Security number, you can find out more about applying for one at www.ssa.gov (<http://www.ssa.gov>).
- Must be meeting satisfactory academic progress (SAP).
- Sign a statement on the FAFSA certifying that you will use Federal student aid only for educational purposes.
- Sign a statement on the FAFSA certifying that you are not in default on a federal student loan and that you do not owe money back on a federal student grant.
- Register with the Selective Service, if required.

Financial Aid Awards

All financial aid awards are based on information provided by the student and 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

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

Federal Direct Unsubsidized Loans

Loans that are made to eligible undergraduate and graduate students that do not demonstrate financial need. Unlike other federal loans, interest accrues while the student is attending school.

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

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

Federal Perkins Loans

A school-based loan program for undergraduate and graduate students with exceptional financial need. Under this program the school is the lender. A Perkins Loan must be repaid according to Federal Guidelines. Repayment begins nine months after graduation or nine months after enrollment drops below 6 credits for undergraduate students.

Grants

The Federal Pell Grant is a federal grant available to undergraduate students with documented financial need. Pell Grants range from \$593 to \$5,920, 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: <http://fa.nmsu.edu/>. Generally, grants do not have to be repaid.

Work-Study Programs

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

For more information on the U.S. Department of Education student aid programs, go to <http://studentaid.ed.gov/> or see the NMSU Financial Aid web site at <http://fa.nmsu.edu> (<http://fa.nmsu.edu>).

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 has a variety of scholarships that are offered to incoming freshman, transfer, continuing and graduate students. State, institutional and private scholarships may also be available but amounts, deadlines and eligibility requirements vary. For more information, contact University Financial Aid and Scholarship Services or visit the university's scholarship web site at <http://admissions.nmsu.edu/scholarships/> or call 287-6678 to speak with a NMSU Grants Financial Aid Processor or Advisor.

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

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). Grade point values are:

Letter Grade	Grade Points per Unit of Credit
A+ / A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C/ C-	2.0
D+/ D/ D-	1.0
F	0

I, CR, RR, PR, NC, W, AU

not calculated in the GPA

- Completion Rate:** Students must complete a minimum of 70 percent of all coursework (registered credit hours) attempted at NMSU. 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 <http://fa.nmsu.edu/resources/return-of-title-iv-funds/>.

Financial Aid Warning

"Warning" is a status assigned to a student who fails to make satisfactory academic progress at a school that evaluates satisfactory academic progress at the end of each payment period and/or term, and chooses to allow students who fail its progress standards to continue to receive aid. If the student has not returned to satisfactory standing after this additional semester, he or she will be suspended from further financial assistance until the satisfactory progress standards are met.

Financial Aid Suspension

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

The Appeals Process

Students suspended from financial aid may appeal the suspension if there are mitigating circumstances affecting their progress. Students who would like to appeal the suspension must submit an appeal form, available at <http://fa.nmsu.edu>, and 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 mitigating 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* at New Mexico State University.

Contact Information

For more information, contact the Financial Aid office at:

MSC 5100, PO Box 30001
Las Cruces, NM 88003-8001
Phone: (575) 646-4105

<http://fa.nmsu.edu/>
or the NMSU Grants Financial Aid Processor and Advisors (505)
287-6678.

NMSU Grants students may call Student Services in Grants (505)
287-6678 and speak directly with the Financial Aid Processor and
Advisors for Grants' students.

Major Scholarships for Entering Freshmen

For consideration, students must be admitted (tentative or final) to NMSU by March 1, and meet eligibility criteria at that time. Students must be NM residents and graduate from a New Mexico High School and attend at least one year at a New Mexico High School or be a New Mexico GED recipient. Students must enroll in the first regular semester directly following high school graduation. Recipients must be enrolled in degree-seeking courses at NMSU Grants. Some scholarships may be funded in part by the New Mexico Legislative Lottery Scholarship beginning the second semester. A FAFSA application is or may be required for most scholarships. Scholarships are competitive and number of awards granted is limited. Entering freshman students must accept scholarships offered by July 1st (at NMSU Grants).

President's Scholarship: Tuition and Fees—High School Requirements: minimum 2.5 GPA. Renewable: 2.5 cumulative GPA and 12 graded credits each semester. High School Seniors and current students are advised to apply early

March 1	Fall semester
December 1	Spring semester

New Mexico Legislative Lottery Scholarship¹: Awarded in the second semester of the freshman year for qualified students completing 12 credits with a semester GPA of 2.5. Renewable: 2.5 cumulative GPA and 12 new graded credits each semester at a community college.

¹ Students at a community college must be classified as Bachelor's seeking by their 4th semester on Lottery. Renewable for 7 total semesters at a four year college; 2.75 GPA at a four year college and completion of 15 credits per semester.

STUDENT RESOURCES

Academic Advising

The Student Services Office offers centralized academic advising throughout the academic year to meet the needs of its student population. Academic advising is an ongoing, shared partnership between a student and an adviser that focuses on helping the student identify, plan and achieve academic, career and life goals.

Advisers provide academic advising services to all students and prospective students for programs offered at NMSU Grants, as well as advising information for students transferring to NMSU Las Cruces or any other college or university in the state of New Mexico.

In an academic advising session students and advisers engage in:

- Developing an awareness of values, interests, abilities, skills, and potential
- Identifying academic, career and life options and goals
- Choosing an academic program
- Strategically planning out steps toward graduation
- Identifying effective academic study skills and habits
- Solving problems that impede progress toward an academic goal
- Referrals to appropriate campus and community resources
- Learning how to use the my.nmsu.edu (<http://my.nmsu.edu>) portal, the STAR degree audit, and FAFSA online
- Selecting courses
- Registering for courses
- Referrals to scholarships, internships, and employment opportunities

Program managers and faculty are also available for specific program and course questions. Refer to posted office hours to make an appointment with program managers and faculty.

When to Seek Advising

New Students will meet with an adviser and register for courses prior to their first semester. Students with a "hold" will also need to meet with an adviser.

Transfer and readmitted students should meet with an adviser their first semester. Upon transfer evaluation of prior credit, students will also meet with an adviser.

Continuing students should plan ahead and meet with their adviser every semester well in advance of continuing student registration. Students nearing the completion of their certificate or degree should meet with an adviser at least one semester prior to graduation.

Adult Education (AE)

The Adult Education program at NMSU Grants provides instruction to adults (16 and over) in High School Equivalency (HSE) test preparation in either the GED or HiSET battery of tests; pre-high school and basic skills in English, reading, and math. Upon enrollment of the program,

learners' skills are assessed and a learning plan is developed based on assessment results. Learners work on skill development through small group classroom instruction, computer-based learning, tutoring, and/or self-study. All services are free of charge except the costs of the HSE tests. Enrollment requires a New Mexico ID or driver's license and a Social Security card. Learners under 18 must have parental and school board permission. Interested adults are encouraged to call the Adult Education Office at (505) 287-6662.

Bookstore: Online Bookstore

NMSU Grants utilizes textbook services through an online bookstore. MBS Direct is your official source for textbooks required by NMSU Grants. Refer to the current Schedule of Classes for information and visit: MBSDirect (<http://www.mbsdirect.net>)

Effective Fall 2017, NMSU Grants will utilize the Barnes and Noble College Bookstore (<http://nmsu-lascruces.bncollege.com/webapp/wcs/stores/servlet/BNCBHomePage?storeId=59552&catalogId=10001&langId=-1>) which provides texts for all other NMSU campuses and courses.

Campus Activities

Student Services offers involvement outside the classroom, an essential component of the student's academics. Campus Activities collaborates with campus and community entities to create opportunities for student involvement, group and individual leadership, and personal development through participation in Student Organizations.

Career Services

NMSU Grants: Student Services is available to assist students in career planning and assessment. A limited listing of current employment is maintained in our office. Students are encouraged to check the career bulletin board, which is kept current. Assistance with resume writing and interviewing techniques is available through resources in the Adviser's Office, individually by appointment, at the Student Success Center, room 125, or the Writing Center, room 123, in Martinez Hall. Focus2, and educational planning system, is available in the Student Success Center for students.

Cooperative Education and Internship Program

Today's competitive employment market necessitates that students gain practical experience related to their major before they finish their college degree. This experience is called Experiential Learning.

NMSU Las Cruces enjoys a national reputation for its Cooperative Education (Co-op) and Internship Program, which contributes to students' total educational experience and realization of career goals by integrating academic theory and practical application on the job. Co-op and Internship assignments provide varied work experiences with employers from business, industry, government and nonprofit organizations. All Co-op work assignments are for continuing full-time students, and must be completed prior to graduation. Each semester (spring, summer, & fall) that a student participates in an approved Co-op a notation is placed on his/her permanent academic transcript.

Students may register full-time for the alternating plan, working one of more work phases throughout the U.S.; each work phase will last the duration of an academic semester. Work phases are separated by at least

one semester of full-time on-campus classroom instruction. Note: While on an alternating work phase, students are afforded full-time academic status with the university, which protects enrollment status, financial aid and other student eligibilities, whether they are registered for any credit or not.

Continuous academic enrollment can be maintained through the parallel plan, wherein a student works part-time (approximately 20-29 hours per week) concurrent with full-time enrollment. Employers are generally located within commuting distance of the university.

In addition to gaining academically related work experience, Co-op students establish positive work ethics, receive remuneration for their educationally related experiences, and also may potentially arrange for course credit through an academic department.

Experiential Learning also includes internships. Internships vary in definition based on the employer and can be one-time or multiple semester work assignments that may or may not be curriculum-related, short or long duration and are paid or unpaid. Internships may qualify for the NMSU Cooperative Education and Internship program, if they meet the program requirements. Approved internship work assignments for continuing full-time students must be completed prior to graduation. Each semester (spring, summer & fall) that a student participates in an approved part-time or full-time Internship a notation is placed on his/her permanent academic transcripts. Internships may earn academic credit through the approval of an academic department.

All students interested in Cooperative Education or Internships must first register with the Cooperative Education and Internship Program office located in Career Services, Garcia Annex. Registration includes an NMSU AggieCAREER Manager Account and an advising session.

For more information contact the

Cooperative Education and Internship Program
MSC 3509, PO Box 30001
Las Cruces NM 88003-8001
(575) 646-4115
Email: coop@nmsu.edu.
<http://careerservices.nmsu.edu>

NMSU GRANTS: Information is available on internship opportunities offered by government, nonprofit organizations, and business/industry. During the summer months and throughout the academic year, interns may arrange for academic credit for internships. Speak with an adviser in Student Services for information.

NMSU Grants Cooperative Learning Program, also known as “Co-op”, provides degree-related work experiences with employers from the surrounding area. The program contributes to the students' total educational experience and realization of career goals by integrating theory and practical application. For more information, students are encouraged to contact the Program Manager and refer to the program of study in the Catalog.

Counseling and Student Development

The Counseling Center at NMSU Las Cruces provides students and the campus with a variety of services including individual, couples and group counseling, crisis intervention, career counseling, outreach programs and consultation. We assist students that are dealing with issues such as relationship concerns, depression, anxiety, stress management, trauma and self-esteem. All services are strictly confidential and are

free. The Counseling Center is located in Garcia Annex Room 100, and is open Monday through Friday, 8am-5pm and other times as needed. The Counseling Center is staffed by professional counselors and psychologists and is accredited by the International Association of Counseling Services, Inc.

The Career Exploration Center, in Room 132 of Garcia Annex provides students with assistance in career choice and selecting an appropriate area of study. Monday-Friday, 8am - 5pm by walk-in or appointment. For more information check our web site at <http://nmsu.edu/~counsel/>.

WAVE: Wellness, Alcohol and Violence Education Program is comprised of the Choices program that provides campus organizations, classes and other groups with information concerning the decisions that surround drinking alcohol and provides presentations on sexual assault and violence prevention.

Social Work Services (accessed through the Counseling Center at (575) 646-2731 provides assistance in locating community resources such as food, shelter, health care, child care or locating financial assistance when a student's educational goals are impeded by a lack of such resources. Social Work Services operates the Aggie Cupboard, an on-campus food pantry that provides free and confidential service to NMSU students, faculty and staff. For questions regarding the Aggie Cupboard, please contact Lori Haussamen at mlori@nmsu.edu. For more information contact Counseling and Student Development at:

MSC 3575, PO Box 30001
Las Cruces, NM 88003-8001
Phone: (575) 646-2731
<http://counselingcenter.nmsu.edu/>

NMSU Grants: Personal and relationship problems can occasionally interfere with your studies. A counselor is available for short term counseling for students whose difficulties are school related and temporary in nature. The counselor will also provide appropriate community referrals for students needing services other than brief interventions. The counselor is available to faculty and staff, as well as for interventions or assessments which may be needed for disruptive or distressing circumstances on campus. The counselor is available in Student Services, Room 05, Martinez Hall.

Distance Education

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

Distance Education (DE) programs are designed to serve students who live a significant distance away from the Las Cruces campus or have scheduling conflicts due to family or work obligations and often find distance education as the best solution to educational advancement. DE at NMSU is defined as the formal education process of delivering instruction so students physically remote from the campus of program origin and/or instructor may participate. Distance education degree programs at NMSU are delivered using a variety of formats including 100% online, or combinations of ITV, online and face-to-face instruction at the Las Cruces campus or off-site locations such as NMSU community

college campuses. Visit <http://distance.nmsu.edu/degree-programs/> for a complete listing of programs.

For further information, contact the Office of Distance Education (ODE) located in Milton Hall, room 185. Contact ODE by calling (575) 646-8231, or email: distance@nmsu.edu. For current information, visit: <http://distance.nmsu.edu/>.

Bachelor's Degree Completion Programs

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

Off-Site/ Extension Programs

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

Technology-Based Programs

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

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

NMSU Grants: Advising is available for transitioning to a Bachelor's degree program through NMSU Grants Student Services and NMSU Distance Education. As a student is nearing completion of an Associate's degree, the student will be referred to a College advisor or NMSU Las Cruces' Transfer Center. The Transfer Center in Las Cruces is located in the Educational Services Building, room 6. Contact information: (575) 646-8011, transfer@nmsu.edu. [Transfercenter.nmsu.edu](http://transfercenter.nmsu.edu) (<http://admissions.nmsu.edu/apply/transfer-students>)

Bachelor's Degree Completion Programs Through Distance Education

- Bachelor of Arts (BA) in Sociology

- Bachelor of Arts (BA) in Women's Studies
- Bachelor of Business Administration (General Business and Marketing)
- Bachelor of Criminal Justice
- Bachelor of Individualized Studies
- Bachelor of Information and Communication Technology

Off-Site/Extension Programs

Distance education programs listed under this category are delivered at off-site/extension locations. Often, these courses will enhance instruction and learning with technology. The degree completion programs below are available at Grants.

Bachelor's Degree Completion Programs

- Bachelor of Science (BS) in Elementary Education
- Bachelor of Science in Nursing (BSN)

Applying NMSU Grants Degrees and Credit towards Bachelor's Degree Programs

Many NMSU Grants courses apply toward Bachelor's degree programs at NMSU and other universities. When planning to transfer, it is best to consult with advisers at both NMSU and the university you have chosen.

The following programs offered at NMSU Grants articulate with bachelor's degree programs at NMSU.

- **Associate of Arts Degree** to all departments in the NMSU College of Arts and Sciences
- **Associate of Science Degree** to all departments in the NMSU College of Arts and Sciences
- **Criminal Justice** to the Department of Criminal Justice in the NMSU College of Arts and Sciences
- **Early Childhood and Education programs** to the NMSU College of Education
- **Pre-Business** to all departments in the NMSU College of Business
- **Social Services** to the College of Health and Social Services & College of Arts & Sciences
- **Computer Technology** to the NMSU Information and Communication Technology Department, College of Engineering.

ID Card Services

The NMSU Aggie I.D. card is the primary source of student identification for the campus. The I.D. card is available in Student Services' Admission Office. The first card is free; replacement cards are \$25.

Information and Communication Technologies

Information and Communication Technologies (ICT) provides the university community with the computing resources and services that support the educational, research, and public service missions of the university. The resources include NMSU's central computing systems, the network that supports the systems and the wired and wireless functionality through which the internet is accessed. ICT operates the student computer labs found throughout the main campus, manages computer checkout, network registration of computers required for access to the NMSU network, discounts for purchases of computers

and Aggie print at the university. ICT also provides support for NMSU technology users thorough its Help Desk.

For further information, contact:

Information and Communication Technologies (ICT)
 MSC 3AT, PO Box 30001
 Las Cruces, NM 88003-8001
 Phone: (575) 646-1840
 Email: help@nmsu.edu.

ICT's web homepage is located at <http://ict.nmsu.edu> and the helpdesk webpage is located at <http://help.nmsu.edu/>. The helpdesk is in room 141 of the Computer Center building.

NMSU Grants Computer Usage Guidelines

NMSU Grants provides three computer labs for student use only located in Room 121 (Drafting – CAD), Room 307 (Computer Science) and Room 127 (Student Success Center). The Computer Science, and CAD labs are available only during class time or for majors on an individual basis. The computer lab in the Student Success Center (SSC) is an open lab available to all students, but is not available for public use. The hours for the SSC open lab change from semester to semester and are posted on the door.

NMSU Grants also provides computers for public and student use in the library and the Cyber Café. The hours for these two locations are posted and change based on whether classes are in session or not. Although these computers are available to the general public, NMSU Grants student use takes priority.

NMSU Grants is a completely wireless campus. Wireless access is available everywhere on campus. To gain access to the wireless network, contact the IT Department to obtain a password. You must have anti-virus software installed on your laptop to gain access to NMSU Grants wireless network.

NMSU Grants provides computer technology, including Internet access for educational purposes and to facilitate other activities necessary for the efficient operation of the institution. The college intends that this technology will be used in a manner which:

- Is conducive to learning;
- Is free of illegal acts;
- Shows respect for the rights and dignity of others.

Acceptable Use

The intent of these general computer use guidelines is to define broad categories of use that are not acceptable, not to provide an exhaustive list of inappropriate or unacceptable uses. Based on guidelines noted in this document, NMSU Grants officials may at any time make determinations that specific uses are or are not appropriate or acceptable. If asked by an NMSU Grants official, you must be prepared to present a course syllabus and/or assignment that would necessitate the use of computers for activities otherwise deemed as unacceptable by these guidelines. It is **not acceptable** to use the college's computer equipment or facilities:

- For any illegal purpose or act.
- To transmit harassing, indecent, obscene, discriminatory or fraudulent materials or messages.
- To transmit or receive any materials in violation of either state or federal laws (e.g. copyright laws).

- To send fraudulent or forged email messages using the account of another person.
- To harass another user or violate another user's rights.
- To access pornography or other offensive or inappropriate material.
- To copy or attempt to copy any software or files without authorization.
- To distribute unauthorized software.

General Rules

- Food and drink are not allowed in the computer labs, including the Cyber Café.
- Student work is to be saved on CD or USB flash drive. Personal files left on the computer will be deleted.
- Computers are available on a first-come, first-serve basis.
- Use of computers is limited to two hours. Users working for more than two hours can be asked to relinquish their computer to users who are waiting.
- NMSU Grants is not responsible for personal items left unattended.
- Be considerate of others by keeping noise and other disruptions to a minimum.
- All cell phones are to be turned off or set to silent while in the lab.
- Printing large files is prohibited. Please limit your printing to material that is really needed.
- Children are not allowed in the college's open laboratories. Children 14 years up through age 18 may use the Cyber Café and library computers for educational purposes IF accompanied by a parent or guardian.
- Headphones must be used at all times when listening to any form of audio materials and must be set at a level that does not disturb others around you. Students are responsible for providing their own headphones.
- Users are not allowed to remove any college hardware, software, or data without permission.
- Do not modify or attempt to modify system configurations or hardware without authorization.

The use of NMSU Grants computer technology is a privilege extended to all users. Inappropriate or unacceptable use of this technology may result in loss of this privilege.

College IT personnel may monitor information on the computer networks or on individual computers or computer systems. Complaints of possible inappropriate or unacceptable use will be investigated. Complaints regarding violations of acceptable use policy should be forwarded to the IT Department.

The open and library labs have their own specific computer use guidelines. Please read them before using of their computers.

Students may refer to: <http://ict.nmsu.edu/Guidelines/index.html> for additional NMSU security, policies, and guidelines.

New Mexico State University Library

The NMSU Grants Library

Believing in the mission statement of the NMSU Grants campus, the Library and Learning Resources is dedicated to fulfilling the varied information needs of the students, faculty, and members of the

community. It strives to provide equitable access and instructional support to facilitate academic achievement and personal growth.

The Library strives to maintain high standards of performance and development of library services, and is committed to the concept of academic freedom.

The faculty and staff are available to answer all inquiries into resources, and to provide assistance and instruction in their use.

Learning resources

Library services are available at the Grants Campus, by electronic access at our outreach centers and through the web. The NMSU Grants Library has print and media resources supporting the academic programs; it licenses EBook, Research databases, Reference resources, and Periodical databases which can be accessed on or off campus through the web. The Library supports the college curriculum in order to foster student success and regards itself as a primary resource both physically and remotely, for supporting students, staff and faculty in their information needs.

The Library has over 31 thousand physical items, 29 databases, newspapers, periodicals, computers, laptops, e-readers, individual study kiosks, scanning and printing resources. The Library houses a Special Collection of books and materials specific to New Mexico, as well as state legal materials.

The Library provides classroom and group research instruction as well as individual research consultation.

Library users may refer to its website for current information on location, services, collections, instruction, exhibitions and programs. NMSU Grants Library (<https://grants.nmsu.edu/library>)

The New Mexico State University Las Cruces Library is a Destination for Discovery that offers access to rich content and research-level collections in two library facilities located in the heart of the campus. Zuhl and Branson libraries house over 1.8 million items and provide electronic access to scholarly journals and databases for both general academic and discipline-specific research. View the large geological collection and artworks on display at Zuhl Library and explore historical collections within the Archives and Special Collections Department at Branson Library. Reference assistance and research support are provided by a team of faculty and staff dedicated to student learning and success. There are a variety of study areas available including quiet and group spaces, some of which can be reserved. Over 100 PCs, scanners, laptops, and other resources are available for students to use. More detailed information may be found at <http://lib.nmsu.edu>.

New Student Orientation

New Student Orientation is mandatory for all new students at NMSU. Transfer and readmissions are welcome and encouraged to attend at NMSU Grants. Students will learn about college life, campus resources, policies, and ultimately register for their courses at Orientation. Campus Tours are offered. See an Advisor in Student Services to schedule your Orientation.

For information, please contact the Aggie Welcome and Orientation Office at (575) 646-4496 or (575) 646-8038 and can be reached via email at awo@nmsu.edu or <http://awo.nmsu.edu>. NMSU Grants students may contact Student Services for scheduling and information: (505) 287-6628.

Small Business Development Center

The Small Business Development Center (SBDC) is located at 701 E. Roosevelt Ave., in Grants. The SBDC offers no-cost counseling and low-cost training for all types of business at any stage of business development. The SBDC is designed with the small business person in mind. Whether in business for some time or just starting out, the SBDC can help address challenges encountered by small business owners. As a member of the New Mexico Small Business Development Center Network, SBDC's experienced staff can provide assistance in the following areas:

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

Specialized Consulting

SBDC staff is available for specialized consulting to help business owners develop an individual plan for your business. Staff will help create alternatives to solve business-related marketing problems and offer assistance for effective record keeping, accounting, and inventory control.

Business Education

The SBDC offers individualized tutoring in accounting, marketing, and various aspects of management that can help you avoid costly mistakes. Special arrangements can be made for SBDC staff to come to businesses to discuss strategies. Seminars and workshops are available to improve business and management skills. For more information, contact the SBDC Director or staff at 287-6687 or 287-6688.

Small Wonders Child Care Center

This private daycare operates on the NMSU Grants Campus and is available for student, faculty, and staff families as well as the public. There is frequently a waiting list for all ages and you are encouraged to contact the Director as early as possible. For more information, call Small Wonders Child Care Center at 287-8373.

Student Accessibility Services

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

For more information, please visit the SAS office in:

Students Accessibility Services (SAS)
Corbett Center, Room. 208
MSC 4149, PO Box 30001
Las Cruces, NM 88003-0001
(575) 646-6840
sas@nmsu.edu

<http://sas.nmsu.edu>

NMSU Grants students may contact the Vice President for Student Services at (505) 287-6628. Petition Request forms are available and will be processed for students at the start of each new semester.

Student Social Code of Conduct

The policies and procedures related to student social conduct are published in this Catalog, Student Social Code of Conduct (p. 233). The Vice President for Student Services serves as the NMSU Grants Discipline Officer for student non-academic misconduct. The Vice President for Academic Affairs serves as the Hearing Officer for academic misconduct.

Children on Campus

Children should not be left unattended anywhere on campus, including the Cyber Café, Library, and Student Lounge. Refer to the Computer Usage Guidelines for additional information. Occasionally faculty may permit children in the classroom, however the student must discuss this with their instructor prior to class and this would be an exception. NMSU Grants offers childcare opportunities (at cost) to students, faculty and staff. Children ages 2–12 may be enrolled in the campus-based child care facility. For more information on child-care, please phone Small Wonders Child Care Center at 287-8373.

Student Government/Student Activities

The Associated Student Government (ASG) has been established to provide students with a vehicle to provide input to administrators, organize and support student activities, and assist with various campus events. Clubs, based on various student interests and activities, are established each year. Examples include Phi Theta Kappa, Native American Club, Student Business Club, and others. To find out more about getting involved in student government or the various clubs, go to grants.nmsu.edu (<http://grants.nmsu.edu>) or Student Services office at 287-6678.

Student Success Centers

NMSU Grants Student Success Center (<https://grants.nmsu.edu/students/student-success-center>) (<https://grants.nmsu.edu/students/student-success-center>) provides support to students in coursework through professional and peer-to-peer tutoring. Additional resources available are Wi-Fi access, fully functional computer lab, and study areas. As a Pearson VUE Test Center, professional licensures and certifications are offered, along with college paper-based and computer-based testing. The center is located in Martinez Hall (room125) and hours of operation are subject to NMSU Grants semester scheduling.

New Mexico State University Las Cruces offers a variety of learning assistance, advising and tutorial services via the Student Success Center. The Student Success Center provides services to assist NMSU students in reaching their academic potential. The Student Success Center provides study skills assistance in such areas as time management, memory, concentration, note taking, reading, test preparation, test taking, math/science study skills, speed reading, critical thinking, financial literacy, as well as graduate school and professional skills test preparation. The services are available to students in the following formats:

1. Individualized assistance is provided to any student who walks in at The Student Success Center.
2. Degree credit is offered under

UNIV 110	Personal Learning Skills I	1-3
UNIV 112	Academic and Personal Effectiveness	2
UNIV 113	Speed Reading	1
UNIV 150	The Freshman Year Experience	3
UNIV 300	Preparing for the Graduate Record Examination	1
UNIV 350	Peer Education	3
UNIV 395	Independent Study	1-3

3. Learning strategies and study-skills workshops provide quick assistance in one-hour presentations offered throughout the semester.
4. Professional and graduate school workshops provide development in such areas as speed reading, getting into graduate school, preparing for the GRE, GMAT, LSAT, MCAT, or NMTA.
5. Student Success Center staff provides outreach presentations on learning and study-skills topics to classes, programs and organizations on campus.
6. Cross Campus Advising assists students with academic advising, changing or exploring majors, seeking connections within a college or needing assistance navigating administrative procedures at the University.
7. The Campus Tutoring Service (CTS) provides walk-in and online tutoring at no charge; and the QuickConnect Early Alert and Intervention Program is an early warning and intervention system, utilized by faculty, focused on first-year students.

For comprehensive information on all programs and services offered by the Student Success Center please visit us at the Hardman and Jacobs Undergraduate Learning Center Room 128, call (575) 646-3136, or review our services online at <http://ssc.nmsu.edu>.

Testing Services

Testing Services (<https://grants.nmsu.edu/testing-center>) at **NMSU Grants**: As a Pearson VUE Test Center, professional licensures and certifications are offered, along with college paper-based and computer-based testing. The center is located in Martinez Hall (room125) and hours of operation are subject to NMSU Grants semester scheduling.

Testing Services at Las Cruces provides test information and registration materials for the following tests:

- American College Testing Assessment (ACT);
- College Level Examination Program (CLEP);
- High School Equivalency (HSE);
- General Education Development (GED) and HiSet; Graduate Management Admission Test (GMAT);
- Graduate Record Exam (GRE);
- Miller Analogies Test (MAT);
- Pearson VUE Test Site;
- PRAXIS Series;

- Pre-Professional Skills Test (PPST);
- New Mexico Teacher Assessments;
- and others.

For more information contact:

Testing Services
MSC 3DA, PO Box 30001
Las Cruces, NM 88003
Phone: (575) 528-7294
<http://dacc.nmsu.edu/testing>

Title V

Title V programs are funded by the Department of Education to serve Hispanic Serving Institutions, such as NMSU Grants, and low income college students. Our program is focused on providing assistance to students through math tutoring, writing consultation, and technical support. Title V is also supporting faculty who are redesigning key courses to ensure that students have access to state of the art technology and instructional methods. This is a five year grant which ends in September of 2019. We are doing our best to make changes that are sustainable and will be integrated well into the future.

Visit us at the Writing Center (<https://grants.nmsu.edu/writing-center>) in Room 123 for an in-person appointment or schedule an online consultation.

Follow our Facebook page for upcoming events and workshops! We help with:

- Argumentative papers
- Lab reports
- Resumes and cover letters
- Personal statements for scholarships
- Fiction and poetry

Need help with your math classes? Contact the **Math Lab** for professional math tutoring help in Room 124 or online.

RECOGNITION OF ACADEMIC ACHIEVEMENT

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

The Honors College

The Honors College at NMSU Las Cruces 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 the major. There are two program options available to students: University Honors and the Honors Certificate. Each option has separate eligibility requirements, benefits, and forms of recognition for the student. For details concerning eligibility and requirements, see the Honors College (<http://catalogs.nmsu.edu/nmsu/undergraduate-honors>) section of the NMSU Las Cruces Catalog.

Crimson Scholars Program

Crimson Scholars is a recognition program for academically superior students. Crimson Scholars receive a number of benefits, including:

- Automatic eligibility for all Honors courses
- Early registration
- Recognition in the commencement program
- A lapel pin

Dean's Report of Academic Achievement

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

Graduation with Honors

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

Phi Theta Kappa

PTK is the International Honor Society for two-year colleges, providing opportunities for development in scholarship, leadership, service, and fellowship. Membership is offered to students who have achieved a 3.5 grade point average, have completed a minimum of 12 hours of coursework leading to an associate's degree, and have demonstrated leadership qualities.

GRADUATION REQUIREMENTS

For the baccalaureate degree each student must complete a minimum of 120 credits including at least 48 credits numbered 300 or above. However, to satisfy the requirements of accreditation, licensure, program depth or rigor, or other needs, some majors require coursework in excess of the 120 credit hour minimum.

Each college has its own requirements for graduation listed under its curricula. However, there are certain graduation requirements common to all undergraduate colleges:

- A student must have a cumulative GPA of 2.0 in all courses taken at NMSU.
- The student will be required to show proficiency in written English in all class work at the university. Any instructor may remand a student to the English remedial laboratory for further training in written English. In each case, the student must complete the remedial laboratory work prior to submitting the application to graduate.
- Each student must complete at NMSU at least 30 of the last 36 credits necessary for the baccalaureate degree. Of these 36 credits, 21 credits must be upper division and at least 12 of these upper division credits must be in the major. Colleges or Departments may require that more than 12 of the upper division credits be from the major, and they may direct that certain of these credits be course specific.
- Curricular requirements for a specific degree may be met by completing all of the course requirements for that degree as set forth in the catalog of matriculation provided that the selected catalog is not more than six years old when the requirements for graduation are met. This rule applies only to the course requirements and number of credits as specified for the degree. In all other cases, the current catalog is effective. The catalog is effective Summer Session I through Spring Semester.

Special provisions consistent with the NMSU Servicemembers Opportunity College (SOC) and other agreements apply for active military and veterans - see section Military/Veterans and Family Members (p. 32).

Upon completion of all requirements, multiple majors for a single degree (e.g., B.A.) will be noted on the academic record. Multiple bachelor's degrees (e.g., B.A. and B.S.) may be granted if all requirements for the degrees have been completed. Multiple degrees may be granted at one commencement if all requirements have been met. Graduation fees must be paid for each degree.

Both designated and undesignated associate degree residency requirements vary with the college awarding the degree. Requirements for the two-year associate degrees and for the certificates are found in the section(s) concerning these degrees.

- Arts and Sciences, Business Administration, Education, and Health and Social Services require that the last 15 credits be completed at NMSU or one of its Community College campuses.
- College of Agricultural, Consumer and Environmental Sciences requires that the last 30 credits be completed at NMSU or one of its Community College campuses.

NMSU GRANTS: To earn an Associate degree at NMSU Grants, a student must:

- Complete a minimum of 60 semester credits (some majors require up to 66 credits) and have an average 2.0 GPA in courses taken at NMSU;
- The last 15 semester credits must be taken at a NMSU campus. Exceptions to this policy will need to be directed to the Vice President for Academics;
- Courses must be lower division.

Courses with an "N" suffice do not apply to any degree

Attendance at Commencement

The academic colleges will confirm eligibility to participate in the commencement exercises held at the close of the fall and spring semesters. Eligible candidates (registered for final degree requirements, as certified by the college deans) and degree recipients from the previous summer session will participate in the fall ceremony. Students who complete degree requirements in the spring must attend the spring ceremony. Bachelor degree candidates wishing to participate in a spring commencement ceremony prior to completing degree requirements in summer school must meet the following conditions:

1. Receive permission from appropriate Dean
2. Show a minimum cumulative grade-point average of 2.0
3. Lack 12 or fewer credit hours to complete degree requirements
4. Remaining credit hours must be offered in the upcoming summer schedule of classes
5. Submit 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.

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.

Diploma

Diplomas will be mailed to graduates approximately eight weeks after final grades have been processed by the Registrar's 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.

Filing Notice of Degree Candidacy

Degree candidates are required to file an Application for Degree and pay graduation fees for each degree sought. This fee (\$25 for certificates, \$25 for associate, \$25 for bachelors, and \$35 for graduate degrees) will be included in the total cost for the semester or session in which the candidate anticipates completing degree requirements. If degree

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

A student must specify 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.

GENERAL EDUCATION COURSES

The New Mexico Common Core 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.

The New Mexico General Education Common Core includes designated general education courses guaranteed to transfer to any New Mexico public college or university. A complete list of approved courses can be found on the New Mexico Higher Education Department web site at www.hed.state.nm.us (<http://www.hed.state.nm.us>). The current approved NMSU courses are listed below under each of the five general education areas.

In accordance to state law (Chapter 21, Article 1B NMSA 1978), the New Mexico Higher Education Department has established policies to guarantee successful transfer of completed core courses between New Mexico postsecondary public institutions.

Lower Division General Education Course Transfer Curriculum

The NMSU Prefix and Course number will be listed first, the NM Transfer Curriculum number will then be listed in parenthesis' followed by the course title and credit hours.

Area I: Communications

Select 9-10 credits one from each sub group: 9-10

English Composition – Level 1

ENGL 111G	Rhetoric and Composition
ENGL 111GH	Rhetoric and Composition Honors

English Composition – Level 2

ENGL 203G	Business and Professional Communication
ENGL 211G	Writing in the Humanities and Social Sciences
ENGL 218G	Technical and Scientific Communication
ENGL 311G	Advanced Composition
ENGL 318G	Advanced Technical and Professional Communication

Oral Communication

AXED 201G	Effective Leadership and Communication in Agricultural Organizations
COMM 253G	Public Speaking
COMM 265G	Principles of Human Communication
HON 265G	Principles of Human Communication Honors

Area II: Mathematics/Algebra

Select 3-4 credits from the following: 3-4

A ST/STAT 251G Statistics for Business and the Behavioral Sciences

MATH 112G	Fundamentals of Elementary Math II
MATH 121G	College Algebra
MATH 142G	Calculus for the Biological and Management Sciences
MATH 190G	Trigonometry and Precalculus
MATH 191G	Calculus and Analytic Geometry I
MATH 192G	Calculus and Analytic Geometry II
MATH 192GH	Calculus and Analytic Geometry II Honors
MATH 210G	Mathematics Appreciation
MATH 275G	Spirit and Evolution of Mathematics
MATH 291G	Calculus and Analytic Geometry III
STAT 271G	Statistics for Psychological Sciences

Area III: Laboratory Science

Select 8 credits from the following: 8

AGRO/HORT 100G	Introductory Plant Science
ANTH 130G & 130GL	Human's Place in Nature: Introduction to Biological Anthropology and Human's Place in Nature Laboratory
ASTR 105G	The Planets
ASTR 110G	Introduction to Astronomy
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory
BIOL 110G	Contemporary Problems in Biology
BIOL 111G & 111GL	Natural History of Life and Natural History of Life Laboratory
BIOL 211G & 211GL	Cellular and Organismal Biology and Cellular and Organismal Biology Laboratory
C S 171G	Introduction to Computer Science
CHEM 110G	Principles and Applications of Chemistry
CHEM 111G	General Chemistry I
CHEM 112G	General Chemistry II
E S 110G	Introductory Environmental Science
FSTE 164G	Introduction to Food Science and Technology
FSTE 263G	Food Science I
GEOG 111G	Geography of the Natural Environment
GEOL 111G	Introductory to Geology
GEOL 212G	The Dynamic Earth
HON 205G	Life, Energy, and Evolution
HON 219G	Earth, Time, and Life
PHYS 110G	The Great Ideas of Physics
PHYS 120G	Introduction to Acoustics
PHYS 211G & PHYS 212GL	General Physics I and General Physics II Laboratory
PHYS 212G & 212GL	General Physics II and General Physics II Laboratory
PHYS 215G & 215GL	Engineering Physics I and Engineering Physics I Laboratory
PHYS 216G & 216GL	Engineering Physics II and Engineering Physics II Laboratory
PHYS 221G	General Physics for Life Sciences I

PHYS 222G	General Physics for Life Sciences II
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Area IV: Social/Behavioral Sciences

Select 6-9 credits from the following: 6-9

AG E/FSTE 210G	Survey of Food and Agricultural Issues
ANTH 120G	Human Ancestors
ANTH 125G	Introduction to World Cultures
ANTH 201G	Introduction to Anthropology
ANTH 202G	Introduction to Archaeology and Physical Anthropology
ANTH 203G	Introduction to Language and Cultural Anthropology
C EP 110G	Human Growth and Behavior
C J 101G	Introduction to Criminal Justice
ECON 201G	Introduction to Economics
ECON 251G	Principles of Macroeconomics
ECON 252G	Principles of Microeconomics
GEOG 112G	World Regional Geography
GEOG 120G	Culture and Environment
GOVT 100G	American National Government
GOVT 110G	Introduction to Political Science
GOVT 150G	American Political Issues
GOVT 160G	International Political Issues
HON 232G	The Human Mind
HON 235G	Window on Humanity
HON 237G	Archaeology: Search for the Past
HON 248G	The Citizen and the State: Great Political Issues
HON 249G	American Politics in a Changing World
JOUR 105G	Media and Society
LING 200G	Introduction to Language
PHLS 150G	Personal Health and Wellness
PSY 201G	Introduction to Psychology
S WK 221G	Introduction to Social Welfare
SOC 101G	Introductory Sociology
SOC 201G	Contemporary Social Problems
W S 201G	Introduction to Women s Studies
W S 202G	Representing Women Across Cultures

Area V: Humanities and Fine Arts

Select 6-9 credits from the following: 6-9

ART 101G	Orientation in Art
ART 110G	Visual Concepts
ART 295G	Introduction to Art History I
ART 296G	Introduction to Art History II
DANC 101G	Dance Appreciation
ENGL 115G	Perspectives on Literature
ENGL 116G	Perspectives on Film
ENGL 220G	Introduction to Creative Writing
ENGL 244G	Literature and Culture
HIST 101G	Roots of Modern Europe
HIST 102G	Modern Europe
HIST 110G	Making History
HIST 111G	Global History to 1500
HIST 112G	Global History Since 1500

HIST 201G	Introduction to Early American History
HIST 202G	Introduction to Recent American History
HIST 211G	East Asia to 1600
HIST 212G	East Asia since 1600
HIST 221G	Islamic Civilizations to 1800
HIST 222G	Islamic Civilizations since 1800
HON 208G	Music in Time and Space
HON 216G	Encounters with Art
HON 222G	Foundations of Western Culture
HON 225G	History of Ethics
HON 227G	Plato and the Discovery of Philosophy
HON 228G	Religion and the State
HON 229G	The New Testament as Literature
HON 230G	Bamboo and Silk: The Fabric of Chinese Literature
HON 234G	The Worlds of Arthur
HON 239G	Medieval Understandings: Literature and Culture in the Middle Ages
HON 242G	Claiming an American Past
HON 270G	Theatre: Beginnings to Broadway
MUS 101G	An Introduction to Music
MUS 201G	History of Jazz in Popular Music: A Blending of Cultures
PHIL 100G	Philosophy, Law and Ethics
PHIL 101G	The Art of Wondering
PHIL 136G	The Quest for God
PHIL 201G	Introduction to Philosophy
PHIL 211G	Informal Logic
PHIL 223G	Ethics
THTR 101G	The World of Theatre

Total Credits

32-40

Alternatives for Meeting General Education Requirements

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

MILITARY AND VETERANS PROGRAMS (MVP)

NMSU Grants: Contact a Certifying Official in Student Services to access your Educational Benefits, at (505) 287-6678.

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

- Affordable, in-state tuition rates for active-duty military personnel and dependents 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 near regional military installations
- Innovative technology and course delivery methods
- Internships for veterans
- Student advocacy at every level, from admissions to graduation
- Resource materials from a variety of veteran and military service organizations
- Priority registration for all military and veteran students
- Veterans on Campus Training by Kognito, training faculty and staff on our student veterans and the unique value they bring to campus
- Salute Honor Society for student veterans
- Connection with student organizations
- A tradition of quality education

NMSU degree programs are approved by the State Approving Agency Directory at the New Mexico Higher Education Department. Eligible students may receive education benefits from the U.S. Department of Veterans' Affairs.

For further information, contact Military and Veterans Programs at:

MSC 4740, PO Box 30001
Las Cruces, NM 88003-8001
Phone: (575) 646-4524
<http://mvp.nmsu.edu>

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 Military, Veterans and Dependents of the US Armed Forces 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 Military, Veterans and Dependents of the US Armed Forces waiver to the Military and Veterans Programs office. Applications are available at the Military

and Veterans Programs Office, online at <http://mvp.nmsu.edu>, or through the Registrar's Office.

Dependents Receiving VA Educational Benefits

Per NM 2015 HB 427:

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

Veterans

Veterans receiving U.S. Department of Veterans Affairs education benefits are eligible for in-state tuition through the Veterans In-State Tuition Act by submitting a 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 Military and Veterans Programs office.

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

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

Regulations

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

Credit for Military Service

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

Only Primary MOS (s) are eligible for academic credit in the initial review and evaluation. Credit for Duty and/or Secondary MOS may be eligible for academic credit if the student petitions the college's Associate Dean. Primary MOS is the primary specialty of a soldier and reflects the broadest and most in-depth scope of military experience. Veterans,

active-duty personnel, National Guard and Reservists who are current students or students applying for admission to New Mexico State University may be granted academic credit on a case-by-case basis upon evaluation of military transcripts - the Joint Service Transcript (jst.doded.mil) and the Community College of the Air Force transcripts. Course equivalencies and credit hours awarded for a particular NMSU degree are determined by colleges and/or academic departments. Credit hours may be awarded for specific courses toward degree requirement, or as elective credit. The number of credit hours awarded will be determined by the college and/or academic department.

NOTE: Students submitting military transcripts for credit evaluation must keep in mind the Maximum Time Frame policy. See Financial Aid Section (p. 17).

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 (<http://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://mvp.nmsu.edu/tuition-assistance>

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 <http://mvp.nmsu.edu/tuition-assistance> or contact the Military Programs Coordinator for assistance at mvp@nmsu.edu or (575) 646-4524.

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. Military and Veterans Programs: VA students ordered to Active Duty must provide a copy of orders to the MVP office, Garcia Annex, room 144. To assist in reporting accurate information to the VA Regional Office, student should also provide, in writing, last day of class attendance.
2. NMSU Registrar: All students presenting their orders to the NMSU Registrar's 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.

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. Academic advisors must submit degree plans to Military and Veterans Programs prior to certification. For continued certification, students must submit a Concise Student Schedule to the MVP office every semester.

Veterans must notify the MVP 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

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 Registrar's Office

Academic Appeals

Academic Appeals Board

Within each college of the university or the library, an academic appeals board will be appointed by the associate dean for academics to hear student appeals. The appeals board will consist of three faculty members and two students.

NMSU GRANTS has created an Academic Misconduct Appeals Committee (AMAC). Refer to grants.nmsu.edu (<http://grants.nmsu.edu>) for current forms and protocol.

Academic Misconduct

Students at NMSU are expected to observe and maintain the highest academic, ethical, and professional standards of conduct. Any student found guilty of academic misconduct shall be subject to disciplinary action. Academic misconduct includes, but is not limited to, the following actions:

1. Cheating or knowingly assisting another student in committing an act of cheating or other forms of academic dishonesty
2. Plagiarism, which includes, but is not necessarily limited to: submitting examinations, themes, reports, drawings, laboratory notes, undocumented quotations, computer-processed materials, or other material as one's own work when such work has been prepared by another person or copied from another person.
3. Unauthorized possession of examinations, reserve library materials, or laboratory materials.
4. Unauthorized changing of grades on an examination, in an instructor's grade book, or on a grade report or unauthorized access to academic computer records.
5. Nondisclosure or misrepresentation in filling out applications or other university records in, or for, academic departments or colleges.

Maintenance of Records

Instructors and/or departments shall keep records used to compute individual grades for two years after the completion of a course. If a grade has been appealed, these records shall be kept for at least two years after completion of the appeal. Departments, colleges or library may require that records be kept for longer periods.

Procedure for Initiating Grievance Complaints

This procedure has been established to provide a method to resolve undergraduate student grievances at the lowest administrative level in a fair and expeditious manner. For the purpose of this procedure, grievances are limited to alleged violations of university policy or procedures by the university or its employees, disputes with faculty and/or alleged unfair treatment. Usually this method is used to appeal a grade the student feels was not justified. Under no condition should these policies be used when the student has allegedly violated the University Code of Conduct or a contractual agreement, and at no hearing should either party have a lawyer. Any student who believes that he/she has been unjustly treated within the academic process may proceed as far as necessary in the steps detailed below. Should the alleged grievance not involve a faculty member or course, the student is to appeal directly to the department head or associate dean for academics in whose area or college the alleged grievance occurred.

1. **Appeal to the faculty member:** The student is to submit a written appeal to the faculty member within 30 days after the start of the semester following the semester in which the alleged grievance occurred. Semester in this case refers to fall and spring only. If the alleged grievance occurs during the summer session, the student is to submit an appeal no later than 30 days into the fall semester following the summer session in which the alleged grievance occurred. The faculty member and the student are to discuss the problem. The faculty member will submit a written report outlining his or her decision to the student and department head or appropriate unit designee within ten working days of receiving the student's written appeal.
2. **Appeal to the department head or appropriate unit designee:** If a decision satisfactory to the student cannot be reached, the student may submit a written appeal to the department head or appropriate unit designee in which the course in question is taught. This is to be done within ten days of the receipt of the faculty member's written decision. The faculty member, the department head or appropriate unit designee, and the student are to meet to discuss the problem. The department head or appropriate unit designee will send a written response outlining his or her decision to the student and faculty member within ten days of this meeting.
3. **Appeals to the associate dean for academics or associate dean of the library:** If a satisfactory decision cannot be reached among the department head or appropriate unit designee, the faculty member, and the student, the student or the faculty member may submit a written state of appeal to the associate dean for academics of the college in which the course was taught. This is to be done within ten working days after the receipt of the written decision by the department head. The associate dean may request a written recommendation from an Academic Appeals Board. Should this be the case, the Academic Appeals Board will conduct a hearing with the student and faculty member (not necessarily at the same time) to review the merits of the appeal. They may also ask for supporting evidence for or against the appeal. The Academic Appeals Board will submit the written recommendation to the associate dean within five working days following the conclusion of their process. The associate

dean may meet with the student, faculty member, and department head to discuss the appeal (not necessarily at the same time). The associate dean will submit a written response outlining his or her decision to the student, faculty member, department head, and dean within ten days of the last meeting.

4. **Appeals to the dean:** The dean of the college or library in which the course is taught or in whose college the alleged grievance occurred may, at his or her discretion, review the appeal upon the written request of the student or faculty member and render a final decision. An appeal to the dean is the last step in the appeals process and the dean's decision cannot be appealed further. Should the dean not choose to review the appeal, the decision of the associate dean for academics or associate dean of the library is final.
5. **Exceptions to the time involved:** The associate dean for academics or associate dean of the library may waive the normal time frame for appeals for compelling reasons. Regardless of circumstances, academic appeals must be initiated with the course instructor within two years of the conclusion of the semester or summer session in which the course was taken.
6. **Enrollment:** A student need not be enrolled at the university to initiate an appeal.

Academic Standing

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

Academic Probation I

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

Under Academic Probation I the following conditions apply:

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

4. Students admitted under special provisions whose transcripts indicate less than a 2.0 GPA are admitted on Academic Probation I.

The student must maintain a semester GPA equal to or greater than 2.0 until such time that the cumulative GPA is greater than 2.0 at which time the student goes back to good academic standing. Until the latter happens the student remains on Academic Probation I. The student will be placed on Academic Probation II if 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.

Academic Probation II

Issued when a student falls below a semester 2.0 GPA, and the cumulative remains below a 2.0 GPA, while on Academic Probation I, or, if the student maintains a semester GPA greater than 2.0 while on Academic Probation II but the cumulative GPA is still less than 2.0.

1. The student cannot enroll in more than 7 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 Suspension. A student on Academic Probation II remains eligible for all extracurricular activities as governed by the rules of the specific activity.

Academic Suspension

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

Under certain conditions, a student may be re-admitted at NMSU under regular status while under Academic Suspension when satisfactory progress has been demonstrated at another college or university (see Readmission- Degree Seeking (p. 9)). 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.

Academic Warning

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

While under Academic Warning the following restrictions apply:

1. The student may be required to enroll in a 3-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.
2. Students will be required to enter into a contract with their advisor, approved by their department head that places further stipulations on Academic Warning. The contract may include, but is not limited to the following:
 - The student may be required to take at least one repeat course to try to improve their GPA.
 - Except for the special study skills/time management course, the student's coursework may be restricted to their major.
 - The student may be required to get tutoring help.
 - The student may be required to see an academic counselor on a specified time schedule.
 - The number of 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.

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. They are continued on that same level of Academic Probation if they withdraw from the university while on Academic Probation.

Disciplinary Probation and Suspension

NMSU expects all students to regard themselves as responsible citizens on campus and in the community.

Repeated misconduct and major violations will cause the student to be subject to immediate suspension or expulsion from the university.

The general rules and regulations applicable to students are in the Student Code of Conduct of the Student Handbook or can be obtained from the Scheduling and Information Desk in Corbett Center.

Effect of Summer Attendance

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

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

Removal of Academic Probation

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

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

General Academic Attendance and Student Performance

Students are expected to attend regularly all classes for which they are registered. Students making satisfactory progress in their classes will be excused from classes when they are representing NMSU on 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). Authorized absences do not relieve the student of their class responsibilities. Prior written notice of the authorized absence will be provided to the instructor by the sponsoring department. Specific class attendance requirements are determined by the instructor of the course.

When the number of absences hinders a student's progress in a course, the instructor may initiate a statement of the student's excessive absences including a recommendation of retention or expulsion from the class. Based on the recommendation of the instructor and with the concurrence of the course department head and the student's academic dean, a student will be dropped for persistent absences or for persistent failure to complete assignments. Similarly, a student may also be dropped from a class for engaging in behavior that interferes with the educational environment of the class. Any student who has been dropped from a class shall have the right to appeal that decision through the Student Academic Grievance Policy.

Only enrolled students, for credit or for audit, are permitted to attend classes. A student who has officially withdrawn from a course may continue to attend the course with the permission of the instructor for the remainder of the semester.

Students not enrolled may visit classes only with the permission of the instructor.

Basic Academic Skills

NMSU requires all students to demonstrate basic academic skills in both English and mathematics to ensure that they have the abilities to succeed in upper-division courses numbered 300 or higher. First-time students are evaluated using ACT or SAT test scores or diagnostic testing at the time of registration to determine basic academic competency. Based upon this evaluation, the university will require entering students to correct deficiencies by completing coursework in English and mathematics before enrolling in courses numbered 300 and above.

Transfer students with 45 or more credits will be allowed to enroll in upper-division courses for one semester. After that point, they must meet both of these requirements before enrolling in upper-division courses. The options for satisfying basic skills in English and mathematics are listed below.

Completion of basic skills requirements will not necessarily satisfy university general education requirements in English and mathematics. Students should consult the General Education Courses and Requirements section in this chapter for these requirements.

English Basic Skill Requirement Options

- 30 ACT English Score - Students may satisfy basic skills requirements in English by scoring 30 or higher on ACT English exams. However, students must still earn credit for ENGL 111G Rhetoric and Composition by one of these options:
- ENGL 111G Rhetoric and Composition or ENGL 111GH Rhetoric and Composition Honors - Students may satisfy English basic skills by passing ENGL 111G Rhetoric and Composition or ENGL 111GH Rhetoric and Composition Honors with a grade of C- or higher.
- CLEP Credit - Students may earn credit for ENGL 111G Rhetoric and Composition or ENGL 111GH Rhetoric and Composition Honors by taking the College Level Examination Program subject exam in freshman college composition with a score of 57 (top quartile) or higher. See Credit by College Level Placement Examination for details.
- Advanced Placement Credit - Students may receive advanced placement credit for ENGL 111G Rhetoric and Composition or ENGL 111GH Rhetoric and Composition Honors by scoring 3, 4, or 5 on the English Advanced Placement Exam. See "Advanced Placement" for details.
- Transfer Credits - Students may receive credit for ENGL 111G Rhetoric and Composition by transferring 3 or more credits of college-level English composition, with a grade of C- or above from accredited institutions. International students may be required to satisfy the requirements under ENGL 111 M Rhetoric and Composition for International and Multilingual Students below.
- Transfer Credits - from Nonaccredited Institutions. Students may receive credit for ENGL 111G Rhetoric and Composition by transferring 3 or more credits of college-level English composition with a grade of C- or higher from a nonaccredited institution, and by writing a theme which is judged adequate by the Department of English.
- ENGL 111 M Rhetoric and Composition for International and Multilingual Students - International students who took the TOEFL examination must complete ENGL 111 M Rhetoric and Composition for International and Multilingual Students with a satisfactory grade.
- Developmental Courses - Students who score 12 or below on the ACT English exam must pass two developmental English courses (CCDE 105 N Effective Communication Skills, CCDE 110 N

General Composition) before enrolling in ENGL 111G Rhetoric and Composition. Students who score 13 to 15 on the ACT English exam must pass one developmental English course (CCDE 110 N General Composition) before enrolling in ENGL 111G Rhetoric and Composition. Developmental courses are included on the transcript and will be included in the calculation of the GPA; however, credits in developmental courses will not count toward a degree.

Mathematics Basic Skills Requirement Options

- 23 ACT Mathematics Score - Students may satisfy basic skills requirements in mathematics by scoring 23 or higher on ACT mathematics exams. However, students must still fulfill the general education math requirement.
- Coursework - Students scoring below 23 on ACT mathematics exams may satisfy basic skills in mathematics by earning a grade of C- or higher in one of the following courses or course combinations:
 - CCDM 112 N Developmental Algebra I and CCDM 113 N Developmental Algebra II;
 - CCDM 114 N Algebra Skills;
 - MATH 111 Fundamentals of Elementary Mathematics I and MATH 112G Fundamentals of Elementary Math II;
 - any mathematics course numbered 120 or above, which includes A ST 251G Statistics for Business and the Behavioral Sciences, STAT 251G Statistics for Business and the Behavioral Sciences and STAT 271G Statistics for Psychological Sciences.

New students are placed in these courses according to their high school GPAs and their ACT scores in mathematics. However, new engineering students must take the mathematics placement exam (MPE), and any new student may choose to take the MPE to test towards a higher placement. Placement does not earn academic credit, and placement in a mathematics course numbered 120 or higher does not satisfy the basic skills requirement.

- Basic Skills Exam - Students may take the Basic Skills Exam, which is offered twice a semester by the Department of Mathematical Sciences. A passing score will meet the basic skills requirement, although it will not appear as credit on the student's transcript.
- Advanced Placement Credit - Students may receive credit for courses which may satisfy basic skills in mathematics by taking the math Advanced Placement Exam. See Advanced Placement later in this chapter for details.
- Developmental Courses - Students who score below 23 on the ACT mathematics exam and whose score on the math placement exam, if taken, does not qualify them for placement into university-level mathematics courses will be placed into the appropriate development mathematics course or courses (CCDM). Placement into CCDM course(s) is dependent upon the student's ACT score and high school GPA. Students must pass the CCDM course or courses before enrolling in university-level mathematics courses. Developmental courses are included on the transcript and will be included in the calculation of the GPA; however, credits in developmental courses will not count toward a degree.

Outcomes Assessment - Evaluating Your Academic Progress

New Mexico State University is committed to providing its students with a quality education and a supportive learning environment. Assessment is a process of rigorous review followed by implementation of changes to enhance and improve the quality of education students receive at NMSU. For assessment to be effective, students must be actively aware

of, and engaged in, assessment activities. Faculty and staff at NMSU will communicate to students the value and implications of assessment. For their part, students will provide feedback on personal, professional and academic development. Students are expected to participate in all types of assessment when asked to do so. Types of assessment activities include class assignments, course projects, exams, exit interviews, standardized tests, surveys, focus groups, etc. Data gathered through these assessments will be published only in aggregate form. Efforts will be made to inform students of assessment results and the program improvements implemented as a result of assessment.

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, address, telephone number, date and place of birth, honors and awards, and dates of attendance.

Other information regarding disclosure of student data is posted at the Registrar's Office in compliance with the Act.

Requests for withholding directory information must be filed in writing with the Registrar's Office.

Satisfactory Progress

A full-time student is making satisfactory progress when the cumulative number of credits earned at NMSU, divided by the number of semesters attended at NMSU, equals at least 12. Part-time students must earn a proportional number of credits in the same time period for purposes of financial aid. In the case of new freshmen, this definition will not be applied until the beginning of the third semester of enrollment; however, for all other students, it will apply after one semester of enrollment. All students at the end of their second academic year must have a cumulative 2.0 GPA.

Social Security Numbers in Student Records

As required by law, social security numbers are collected from prospective and current students who plan to seek employment on campus or, wish to receive financial aid. 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 will be necessary to submit this tax reporting. 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.

Student Responsibility

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

Transcripts

An official transcript, the University's certified statement of your 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://mytranscript.nmsu.edu>. 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.

Transcript evaluation, student records and determination of residency:

Office of the Registrar
MSC 3AR, PO Box 30001
Las Cruces, NM 88003-8001
Phone: (575) 646-3411
<http://registrar.nmsu.edu/>

Registration and Grading

Adjusted Credit Option

The adjusted credit option allows students who obtain a low grade-point average (less than 2.0 cumulative) during their first few semesters to get a fresh start. This option may be used only once and is not reversible. All courses carrying a grade of S, CR, C-, or better earned prior to the grading period in which the student requests the adjusted credit option (including transfer courses) are included as adjusted credit. All allowable credits are designated on the permanent academic record as "adjusted credit" and are omitted from the calculations of the cumulative grade-point average.

A fee of \$10 is required for the submission of an adjusted credit option application. Application forms are available in the offices of the academic deans. Students applying for this option must:

1. not hold a baccalaureate degree
2. be currently enrolled as a degree-seeking/nondegree undergraduate student
3. have a cumulative grade-point average of less than 2.0 at NMSU
4. have successfully accumulated fewer than 60 transfer plus NMSU credits
5. exercise the option only during the fall or spring semester before the last day to withdraw from the university
6. pass an additional 30 graded credits before they may be awarded an associate's degree.

Other courses taken during the period of credit adjustment are not calculated in the cumulative grade-point average. The repeat rule for courses starts anew for students who have taken the adjusted credit option.

Credits covered by this option are shown on the transcript with an appropriate notation, and all coursework attempted is shown. In no circumstances will a transcript of this record be issued that does not include all courses attempted at this university.

Probationary status and eligibility for on-campus employment is not affected by the exercise of the adjusted credit option.

Students are eligible for university honors if the criteria for university honors are met for all courses taken at NMSU after the period of adjusted credit.

Advanced Placement

Students who have completed college-level courses in secondary schools and have taken the Advanced Placement Examinations of the College Examination Board with resulting composite scores of 3, 4, or 5 may receive college level credit. The amount of credit and the equivalent university courses for which credit will be granted will be determined by the head of the department in which the course is offered. Such credit will be treated as transfer credit without a grade, will count

toward graduation, and may be used in fulfilling specific curriculum requirements.

Audits

A regularly enrolled student may register for any course prior to the last day of registration as an auditor without credit with the consent of instructor, provided the facilities are not required for regular students. The tuition and fees are the same as for credit courses. Audit courses are not considered in determining the maximum load except for students on probation and graduate students. A student may not change from credit to audit after the last day to register but may withdraw and continue to attend with the permission of the instructor.

Changes in Registration

Registration changes may be processed only in accordance with university regulations and with appropriate signatures. It is the responsibility of the student to initiate official withdrawal from a course.

Forms are available from the Academic Advisor or in the Deans' offices. Courses may not be added or dropped after the cutoff date indicated in the university calendar, with the exception of petitions for retroactive withdrawal processed in accordance with Policy 6.92. For refund policy, see <http://uar.nmsu.edu/withdrawals/>.

When a student officially drops a course, the W grade is assigned as follows:

1. No grade is assigned during the registration period.
2. A W grade is assigned to any student who officially drops a course during the first half of its duration. A student may not officially withdraw from a course after this time.
3. A grade of W is assigned in all courses to any student officially withdrawing from the university prior to the last three weeks of classes.

A student found insufficiently prepared to carry a regular course may be transferred to a more elementary course in the same field any day before the last day to officially withdraw from an individual course.

Any person attending under Veterans Educational Assistance must notify the Military and Veterans Programs office if dropping or adding courses changes enrollment status for benefits.

Class Load

The normal load in a regular semester (fall or spring) for a main campus student is 12-18 credits. A normal load for a summer term is 6 credits per session for a total of 12 credit hours. Some scholarships may require a 15 credit class load as a minimum requirement to be eligible for that scholarship.

An overload is more than 18 credits for a regular semester and more than 12 credits for the summer term. Written permission must be obtained from the Dean of the student's college and is required for a student to register for an overload. A one-credit course in physical education may be taken without being included in the calculation for determining an overload. To be eligible to take an overload the student must have no grades less than a C- and a cumulative grade-point average of a 2.5 or higher for the last two semesters. No freshman will be permitted to assume an overload.

Students may only enroll in non-NMSU courses with approval from the Dean of their college and these courses will still be counted as part of a student's class load.

Class Rank (Classification)

A student's classification depends upon the number of credits completed toward graduation.

- Sophomore rank is achieved with successful completion of 28 credits;
- junior rank, 60 credits;
- senior rank, 90 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 Office of the Registrar. The fee for challenging a course is the same as the approved tuition rate.

Courses may not be challenged under the S/U option.

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

Credit for Military Service

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

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

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

NOTE: Students submitting military transcripts for credit evaluation must keep in mind the Maximum Time Frame policy. See Financial Aid Section (p. 17).

Grade Point Average

A student's NMSU semester and cumulative GPAs will be based solely on courses taken at NMSU or under an approved National Student Exchange.

Graduate Study by University Seniors

A student who is in the final semester of a bachelor's degree program and who is completing all requirements for graduation may take up to 6 credits of graduate-level courses numbered from 450 through 598 for credit toward an advanced degree.

The student must also:

1. File an Application for Admission to Graduate Student Services and be admitted by a department into a graduate program
2. Have a grade-point average of 3.0 or better over the most recent semesters in which the last 45 semester hours were completed
3. File a petition for each course by the deadline to add courses for the semester in which the course was taken
4. Obtain approval by the instructor, department head, and undergraduate dean

The combined total of graduate and undergraduate courses for the semester may not exceed 17 credits. Students should consult an admission representative at the Graduate Student Services.

If the student is not admitted into a graduate program, the course(s) will remain separate from the undergraduate record. If the student is admitted into a graduate program, the course(s) will become part of the graduate record and will not be used in the calculation of the student's undergraduate grade-point average or credit hours.

Incomplete Grade

The grade of I (incomplete) is given for passable work that could not be completed due to circumstances beyond the student's control. The following regulations apply to removing or changing an I grade:

1. Instructors may assign I grades only if the student is unable to complete the course due to circumstances beyond the student's control that develop after the last day to withdraw from the course. Examples of appropriate circumstances include documented illness, documented death or crisis in the student's immediate family, and similar circumstances. Job related circumstances are generally not appropriate grounds for assigning an I grade. 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.
2. To assign an I grade, the instructor must complete the I Grade Information Form and have the form delivered to the course dean. The instructor will state in writing on the I Grade Information Form the steps necessary to complete the remaining coursework or the instructor may indicate that the student will be required to re-enroll in the course to receive credit (in which case the I grade will not be removed). The student will sign this document or the course dean will send a copy of the document to the student's official permanent address as recorded in the Registrar's Office.
3. The student is entitled to have the I grade removed from their transcript only if they complete the remaining coursework as specified on the I Grade Information Form, in a manner satisfactory to the instructor. The work must be completed within 12 months after the I grade is assigned and prior to the student's graduation, or within a shorter period of time if specified by the instructor on the I Grade Information Form. If the student fails to complete the coursework, the instructor may change the I grade to any appropriate grade (including D, F, or U) provided that the instructor stated that this would occur on the I Grade Information Form.
4. I grades can be removed from the student's transcript by the instructor only during the 12-month period following assignment of the I grade or prior to the student's graduation, whichever comes first. To remove an I grade, the instructor must complete a Change of Grade Form and file the form with the Registrar's Office. The instructor may assign whatever grade is appropriate for the entire course. This may include grades of D, F, or U. An I grade not changed by the assigning instructor within 12 months and prior to graduation shall remain an I grade thereafter.
5. A student may re-enroll and receive credit for any course for which an I grade was previously received, but retaking the course will not result in a removal of the I grade from the student's transcript.

The effect of removing an I grade on a student's academic standing (scholastic warning, probation, or suspension) depends on the date the transaction is officially recorded on the student's academic record. If the transaction is recorded before the student begins another semester, the grade replacing the I is included in the grade-point average calculation that establishes the student's academic standing. If the transaction is recorded after the student begins another semester, the new grade's effect on academic standing is based upon its inclusion with grades for the semester in which the student is enrolled.

Independent Studies

Independent study courses (including directed reading and special topics courses which do not carry a subtitle) are for students capable of self-direction who meet the requirements for the S/U option, i.e., if the students are not eligible for the S/U option, they are not eligible for

independent study. Each college determines the maximum number of credits that may be earned in independent study courses.

Numbering of Courses

University courses numbered 100 through 299 are considered lower division and are for undergraduate credit only, these courses will not be applied toward a graduate degree at any time. Courses numbered 300 through 499 are considered upper division and are intended for the undergraduate level, but in some cases graduate credit may be obtained. Courses numbered 450 through 499 are designed for seniors and graduates; 500 through 599 are primarily for graduate students working on a master's degree; 600 through 700 are principally for students working on a doctoral degree.

In some cases, graduate credit may be obtained in courses numbered 300 through 449, to secure such credit, a written request must be filed with the dean of the Graduate School at the time of registration. However, these courses cannot be deficiencies, and no more than 4 credits will be granted toward a degree can be granted for courses numbered below 400. The total of courses numbered 300 through 449 cannot exceed 8 credits.

Prerequisite/Corequisite

A prerequisite is an enforceable entry requirement for a particular course. Students must have successfully completed the prerequisite before enrolling in the subsequent course. A corequisite is a course that is required to be taken in conjunction with another course.

Repeating Courses

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

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

RR Grade

The RR grade applies only to designated skill development undergraduate courses (CCDE, CCDL, CCDM & CCCR) approved by the University Curriculum Committee and indicates the student has made substantial progress toward completing the requirements of the course. It carries neither penalty nor credit. The 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 it remains on the student's transcript.

S/U Option

Students with 28 credits at NMSU under traditional grading, with an overall average of 2.5 or better, may exercise the S/U option. The following limitations apply:

1. No more than 7 credits per semester or 4 credits per summer session.

2. Not to exceed a total of 21 semester credits.

These limitations do not apply to honors and courses officially designated S/U.

Each course under this option must be requested during registration. Eligibility must be determined by the student's academic dean and certified by the student. The course must be taken outside the major. If the student changes majors, the new major department may require a traditional grade for a course previously passed with an S grade. The traditional grade change is made by the instructor or by a course challenge if the original instructor is no longer with the university.

Eligibility for S/U grading must be re-established after adjusted credit has been approved.

Nondegree students who do not meet the above requirements may take courses under the S/U option. However, these courses may not be applied toward an undergraduate degree at NMSU.

Graduate students in regular standing may take courses for the S/U option, outside the major department, under regulations stated in the Graduate Catalog.

Each academic college of the university 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 such courses are not included in the 21-credit limitation or the 7-credit-per-semester limit.

Undergraduate Enrollment in Graduate Courses

Undergraduates who wish to enroll in a graduate-level course numbered 450 or higher for undergraduate credit must secure prior written permission from the instructor and course dean. Enrollment is by petition only and is limited to outstanding juniors and seniors.

University Credits

The unit of university credit is the semester hour, which is the equivalent of one hour of recitation/lecture or a minimum of two hours of practice per week for one semester.

University Grading System

Grade reports are not automatically mailed to students. Students can access grades and credits by the web using my.nmsu.edu. At the request of the student, the instructor will provide information on progress in the course prior to the last day to drop a course.

The NMSU system of grading is expressed in letters, which carry grade points used in calculating the cumulative grade-point average:

Letter Grade	Grade Points per Unit of Credit
A+	4.0
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	2.0
D+, D, D-	1.0
F	0

W – Withdrawal	0
N – Grade not submitted	0
CR – Credit authorized, but not letter grade	0
IP – In progress	0
RR – Progress in undergraduate course	0
PR – Progress on graduate thesis	0
S ¹ – Satisfactory work	0
U – Unsatisfactory work	0
I – Incomplete	0
AU – Audit	0

¹ An S grade is a grade satisfactory to the professor and is normally equivalent to the letter grade of C- or higher.

In computing the overall grade-point average, the total credits in which grades of A+, A, A-, B+, B, B-, C+, C, C-, D+, D, D-, or F have been assigned is divided into the total number of grade points earned.

A course for which only CR, but no letter grade, is given and a course in which an S or PR grade is earned will be included in earned hours but is not computed in the grade-point average.

Withdrawals

Administrative Withdrawals

When an administrative withdrawal from a course is initiated for a student who is representing the university at an official out-of-town event, the withdrawal will become effective upon the return of the student to the university from that event or five class days after the signed drop slip arrives in the dean's office, whichever is sooner.

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. Military and Veterans Programs: VA students ordered to Active Duty must provide a copy of orders to the MVP office, Garcia Annex, room 141. To assist in reporting accurate information to the VA Regional Office, student should also provide, in writing, last day of class attendance.
2. NMSU Registrar: All students presenting their orders to the NMSU Registrar's 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 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. The 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 that the student must withdraw because of the medical condition. This letter must be submitted within the semester or no later than one

academic year after the end of that term for which the withdrawal is being requested.

Once the information is reviewed a 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 Registrar's Office. At all other campuses, medical withdrawal begins at the Student Services Office.

Withdrawal Due to Medical Conditions of a Family Member

A student who must withdraw because of a medical condition of an immediate family member will need to submit a letter from the family member's attending physician 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 confirm 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 after the end of that term for which the withdrawal is being requested.

For purposes of this policy, "immediate family member" includes spouse, a domestic partner as defined in the NMSU Policy Manual 7.04 Domestic Partnerships, a child, parent or legal guardian, a sister or brother, a grandparent, or a grandchild. Such familial relationships created by law are also included (i.e. mother/father in law; half or step siblings); other relationships can be considered on a case-by-case basis.

Once the information is reviewed a 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 Registrar's 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 approved as indicated on the withdrawal form. All such withdrawals will be registered on the student's transcript. It is the student's responsibility to initiate withdrawal from the university and to obtain necessary signatures. Students who leave without following the official procedure are graded appropriately by the instructor. On the Las Cruces campus, withdrawal begins at the Registrar's Office. At all other campuses, withdrawal begins at the Student Services Office. Applicable dates are published on the approved university academic calendar or under important dates at: <http://registration.nmsu.edu>.

Students who withdraw from all courses for the semester should do so in person through the Registrar's Office. Students who are unable to come in person may submit an e-mail using their NMSU e-mail account to registrar@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 <http://uar.nmsu.edu/withdrawals/>. 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.

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

Additional Degree Designations

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

Catalog Effective Period

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

Application for Degree/Graduation or Certificate

Degrees and certificates are not awarded automatically upon completion of the requirements of their program of study. In order to receive the degree or certificate, students must submit an application and fee in the semester in which the student expects to graduate or complete the certificate requirements. The deadline for the application and fee is specified in the academic calendar for each semester. All designations earned must be noted in the application. Additional designations may not be added to a degree after it is awarded. 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 who do not meet the necessary degree or certificate requirements or otherwise elect not to graduate in the semester in which the application is filed are required to re-apply in a subsequent semester and pay another

fee. Students who wish to participate in commencement must submit a separate application and pay a fee by a separate deadline established by the Registrar. Students applying for graduate degrees must satisfy additional requirements as described in the Master's and Doctoral Degree sections below.

Multiple Degrees and Designations

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

Degree Revocation

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

Honorary Degrees

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

Community College Certificate

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

Certificate of Achievement

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

Certificate of Completion

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

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

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

If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges.

Associate's Degree

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

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

1. **Minimum Credit Hours:** a minimum of 60 credits (excluding "N" suffix courses). Some programs of study require coursework in excess of the 60 credit-hour minimum.
2. **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 (English 111g and one of several math course options),
3. **Residency** - 15 of the last 30 credits earned toward the degree must be completed at NMSU.
4. **Major:** All requirements for at least one major field of study as specified in the college and departmental sections of the respective catalog.

Associate Major

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

Baccalaureate Degree (Bachelor's Degree)

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

1. **Minimum Credit Hours:** a minimum of 120 credits (excluding "N" suffix courses)
2. **GPA requirement-** a minimum cumulative GPA of 2.0 in all courses taken at NMSU
3. **New Mexico Common Core-** 35-36 credits of state mandated general education courses (as specified in General Education section); such course are designed with a "G"
4. **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.
6. **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.

Bachelor's Degree Designations

Undergraduate Major

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

Supplemental Major

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

Undergraduate Minor

An undergraduate minor consist of 18 credits of course work, of which 9 credits must be upper-division (300-499). A minor encompasses courses that in a recognized field of study outside the student's major. At least 12 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.

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

During the first semester 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. Short courses, of less than one summer session or one semester cannot constitute more than one-fourth of the total requirements for the degree.

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, a copy of the thesis must be submitted to the Graduate School for format review no later than the deadline posted to the Graduate School website. The form and style of the thesis must comply with the regulations given in the Guidelines for Preparing a Thesis or Dissertation <http://gradschool.nmsu.edu/theses-dissertations/>. These guidelines also contain detailed information on the thesis approval process and binding. The thesis is not complete until copies have been accepted for binding by the binding section staff and until the online Library binding form has been completed and received in Branson Library

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 non-thesis option will be determined by the department, with the approval of the Dean of the Graduate School. If a department does not specify an examination format, the final examination will consist of an oral defense of the candidate's field of study.

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

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

Any candidate who fails in the final examination may either:

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

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

Time Limit

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

Master's Accelerated Program (MAP)

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

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

The graduate department within the colleges may allow well-prepared advanced students to substitute a maximum of 12 graduate course credits for elective courses in an undergraduate degree program and then subsequently count those same courses as fulfilling graduate requirements in a related graduate program that the institution offers. A graduate program has 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. Students must receive a grade of B or higher in this coursework to be counted for graduate credit.

To Participate in this program:

1. The student must prior approval by the graduate program
2. Be general or discipline electives in the student's undergraduate course of study. No required courses from the undergraduate program will be accepted for transfer credit into the graduate program.
3. Enroll in appropriate graduate level courses. It is the student's responsibility to register for graduate-level courses and ensure that those courses are applicable to the desired graduate degree program. If the course(s) requires instructor approval, it is the responsibility of the students to get approval in order to register for the course(s).

4. Submit a completed Master's Accelerated Program Referral Form to the Graduate School by the first Friday of classes, with the following signatures
 5. The Undergraduate Advisor
 6. The anticipated Master's Department Head
 7. The Undergraduate Academic Dean
 8. The Financial Aid Advisor
9. Be accepted by the Graduate School for conditional admittance.
10. Participate in the Developing New Scholars Program (DNSP) through the Graduate School. The DNSP program provides formal mentoring to students that supports their success in graduate education.
11. Upon graduation with the Bachelor's degree and final admission into the master's/graduate program, 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
3. 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.
- 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.
7. 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.
8. 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.
9. 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.
10. The student will be required to submit the Candidacy Form after they have satisfactorily completed 12 credits.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.

Degree(s) Awarded

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

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

1. The student must present a written description of the program concept consisting of the following, as well as, the designated degree being sought and a name of the interdisciplinary area:

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 curric-instr@nmsu.edu for more information.

Specialist in Education

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

Residency and Credit Requirements

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

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

Program of Study

It is recommended that during the first semester of enrollment each beginning graduate student should prepare a complete program of study with the student's advisor. The program of study can be tentative, should be kept in the student's file within the department, and is not considered an "Application for Admission to Candidacy."

Major Field

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

Candidacy

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

Internship

Each candidate will earn from three to six semester credits in an internship. This experience will consist of supervised performance of duties related to the candidate's specialty. The student's department will

determine the structure of the internship and a research project will be conducted in conjunction with the internship.

Oral Examination

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

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

Time Limit

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

Doctoral Degrees

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

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

Professional Doctoral Degrees

Doctor of Economic Development (DED)

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

A project paper must be finalized using a similar submission process as the dissertation (see the "Finalizing the Doctoral Dissertation"). On the front page, after the title of the paper, the student should indicate that it is a project paper. Students completing projects papers do not need to complete the earned doctoral survey. The paper must be submitted to the Graduate School for format review on or before the deadline. The form and style of the paper must comply with regulations given in the "Guidelines for Preparing a Thesis or Dissertation." These guidelines also contain detailed information on the dissertation/project paper- approval process as well as information on binding. Candidates are encouraged to consult with the Graduate School on format, deadlines and procedures before final typing. The project paper is not complete until copies have been accepted for binding by the staff of Branson Library and until the

microfilm agreement form has been completed and received in Branson Library.

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:

1. 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 re-examination 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 preddoctoral 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:

1. Students wishing to study in the interdisciplinary doctoral degree program must apply and be accepted into a doctorate-granting department.
2. A master's degree or equivalent program of study that includes at least 30 credits of graduate course work with a minimum cumulative GPA of 3.0.
3. Twelve credits of graduate course work must be completed at NMSU in order to apply for admission into the interdisciplinary doctorate degree program. Additional course work is required for degree completion.
4. Evidence of outstanding academic achievement in graduate school.
5. A written description of the program concept prepared by the student consisting of:
 - a. Areas in which competency is required
 - b. Purposed readings and course work and how these relate to required competencies
 - c. Objectives and an outline for thesis research
 - d. Justification for not using an existing departmental degree program
6. Student must select an advisor from his/her department to help structure and chair a committee consisting of at least five faculty members from the graduate faculty list who are willing to work on the interdisciplinary degree program. The committee must include at least two members from each of the two doctorate-granting departments. The committee chair will convene a meeting to review and approve the proposed program.
7. The Graduate School will send an Admission Referral document, signed by all the committee members, to the heads of all the departments from which the student proposes to use more than 8 credits of course work, or from the department which the faculty are requested to serve on the proposed committee.
8. Once the Admission Referral document has been approved by all departments, the committee chair will convene a meeting of the committee to review the student's program and make changes as

necessary. In addition, the committee will set the format and date for the qualifying exam. An effort should be made to incorporate the interdisciplinary nature of the program into the qualifying exam.

9. Students have satisfied the requirements for admission to the program once the qualifying exam has been passed and the respective department heads approve the Admission Referral memorandum. Formal acceptance into a doctoral program may be required in order to receive financial assistance.
10. The number of courses required for degree completion will vary depending on the student's program of study, please see the department for more specific requirements. However, Interdisciplinary doctorate degree students must meet the requirements for residency, registration, the comprehensive examination, the Final Examination, the dissertation and the declaration of approved minor.
11. The dissertation work shall include at least 18 credits of a 700-level course.

Completing your Doctoral Degree Program

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

Declaration of Approved Minor

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

Qualifying Examination

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

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

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
2. For students who enter with a master's degree or equivalent from another university, or another department, the qualifying examination should be taken before the completion of one semester of graduate work.
3. For students who earn their master's degree at New Mexico State University and will continue in the same department, the department may allow the master's final examination to serve as the doctoral qualifying examination or may require a separate examination.

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

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

4. Recommend a discontinuation of graduate work

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

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

Doctoral Graduate Committee

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

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

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

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

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

Program of Study

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

- Completed 12 graduate credits 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.

The final examination must be completed in accordance with the schedule provided in the academic calendar. Ten working days before the examination is taken the department must submit the form requesting this examination to the Graduate School. This form may be found on

the Web at <http://gradschool.nmsu.edu/graduate-forms/> and is also available from the Graduate School and departmental offices.

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

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

Finalizing the Doctoral Dissertation

After successful completion of the final examination, a copy of the dissertation must be submitted to the Graduate School for format review no later than the deadline posted to the Graduate School website.

The form and style of the dissertation must comply with the regulations given in the Guidelines for Preparing a Thesis or Dissertation <http://gradschool.nmsu.edu/theses-dissertations/>. These guidelines also contain detailed information on the dissertation-approval process and binding. Candidates are encouraged to consult with the Graduate School on format, deadlines and procedures before final typing.

The dissertation is not complete until copies have been accepted for binding by the binding section staff and until the UMI agreement form and the online Library binding form has been completed and received in Branson Library.

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. Detailed instructions for registration are provided in the online registration guide maintained by the University Registrar's office. For questions about registration which are not addressed on the website, please contact the University Registrar's Office (<http://registrar.nmsu.edu>).

Admission Requirement

No person 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 Registrar's 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. Freshmen have less than 28 completed credits. Sophomore rank is achieved with successful completion of 28 credits; junior rank 60 credits; senior rank 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 for one semester and assumes substantial additional out of class work by the student. The number of credits associated with each course is indicated in the course schedule.

Course Load for Undergraduate Students

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

An overload is classified as more than 18 credits for a regular semester and more than 12 credits for the summer term. A one-credit course in physical education will not create an overload. Registration for a course overload requires written permission from the Associate Dean for Academics in the student's college. A "Petition for Course Overload" form is available from the Registrar's office or website. Freshmen and students with a grade of D or F, or a cumulative grade-point average of less than 2.5, in either of the last two semesters, are not eligible for overloads. Concurrent enrollment in non-NMSU courses at other post-secondary institutions requires prior approval from the Associate Dean for Academics in the student's college, and these courses are counted as part of a student's class load.

Course Load for Graduate Students

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

Course Numbering

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

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

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

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

Prerequisites and Corequisites

Some courses require advance or concurrently acquired specific knowledge and skills. Prerequisite(s) and corequisite(s) for each course 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 Registrar’s office publishes an online schedule of “Important Dates for Students” for each semester. The students 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 the period through this date courses may be added online through myNMSU, or through your advisor (if necessary).
2. **Last day to add a class with instructor’s signature** - during the period through this date courses may only be added with “Change of Schedule” form signed by the instructor (available online through the Registrar’s Office).
* 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 advisor or to registrar@nmsu.edu with the student’s name, ID number and course CRN number they are wanting to add.

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

1. **Last day to drop without a “W” grade** – during the period through this date, 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 the period through this date, 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) which the student will not 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 advisor or contact the Registrar’s Office.

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

A student found insufficiently prepared to carry a regular course 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 and is automatically dropped from the waitlist 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 this point an instructor’s signature (add/drop/withdraw slip) is required for any registration changes.

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 Undergraduate Students

Undergraduate students may repeat courses, for a change in grade, when the original grade earned was a D or F. Once a passing grade of B or better is earned, the course will then be substituted in the calculation of the grade-point-average and students will no longer be able to repeat that course for change of grade purposes. Both the original grade and the substituted grade will show on the students transcript.

If the student’s original grade was a D and he/she repeats the course, but receives a F, the second grade will not be substituted for the original.

Repeat options apply only to eligible courses that were completed prior to the time a student was awarded a degree at NMSU.

Repeating Courses for Graduate Students

Graduate student 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.

Substitutions and Waivers

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

Auditing a Course (No Credit)

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

expires if necessary to accommodate a student taking the course for credit. After the last day to register, the student cannot change the course an audited course to a for credit 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 included 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 dis-enrolled from a course due to excessive absences (consecutive absences in excess of the number of class meetings held within a week or any number of absences which are impairing the student's performance), or for persistent failure to complete assignments. In such cases, the Instructor may recommend administrative dis-enrollment by providing a completed "Student Absence/Lack of Progress Report" form to the Academic Associate Dean. If the Academic Associate Dean agrees with the recommendation of the course instructor, the student will be dis-enrolled from the course. A dis-enrollment has the same effect as a voluntary withdrawal (see "Registration Changes" in this catalog). Any student who has been administratively dis-enrolled from a class may appeal that decision to the Dean of the College where the course was offered within 10 days after notification of the dis-enrollment.

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

Classroom Conduct

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

Student Performance Assessment

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

Academic Program Assessment

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

Academic Program Assessment requires participation of students who are expected to provide feedback on personal, professional and academic development and to participate in a variety of assessment exercises. Assessment activities may be a part of regular graded course assignments, or may require students to engage in other activities. Assessments may include course projects, exams, exit interviews, standardized tests, surveys, focus groups, etc. Data gathered through these assessments is published only in aggregate form. Learn more about NMSU's Academic Program Assessment at <https://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 Registrar's Office 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 Registrar's Final Examination Schedule, the instructor and course department coordinate examination dates, times and locations with NMSU's Academic Scheduling office (575) 646-4790. Final exams for weekend courses are held at the regular class period on the last day of class.

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

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

the instructor of the third exam will make alternate arrangements for that exam upon request.)

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

Developmental Evaluation

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

• **Developmental Courses in English** - Students who score below 15 on the ACT English exam will be placed into appropriate developmental English course or course(s) (prefix CCDE) before enrolling in ENGL 111G (<http://nmsu.smartcatalogiq.com/en/2016-2017/Undergraduate-Catalog/Courses/ENGL-ENGLISH/100/ENGL-111G>). Students who score below 13 on the ACT English will require two developmental courses before enrolling in ENGL 111G (<http://nmsu.smartcatalogiq.com/en/2016-2017/Undergraduate-Catalog/Courses/ENGL-ENGLISH/100/ENGL-111G>).

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

Basic Academic Skills

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

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

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

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

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

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

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

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

- ACT Mathematics Score of 23
- Coursework – any one of the following courses or course combinations completed with a grade of C- or higher in each course:
 - MATH 111 (<http://nmsu.smartcatalogiq.com/en/2016-2017/Undergraduate-Catalog/Courses/MATH-MATHEMATICS/100/MATH-111>) and MATH 112G (<http://nmsu.smartcatalogiq.com/en/2016-2017/Undergraduate-Catalog/Courses/MATH-MATHEMATICS/100/MATH-112G>)
 - Any mathematics course numbered 120 or above (prefix MATH)
 - Any one statistics course: A ST 251G (<http://nmsu.smartcatalogiq.com/en/2016-2017/Undergraduate-Catalog/Courses/A-ST-APPLIED-STATISTICS/200/A-ST-251G>), STAT 251G (<http://nmsu.smartcatalogiq.com/en/2016-2017/Undergraduate-Catalog/Courses/STAT-STATISTICS/200/STAT-251G>) or STAT 271G (<http://nmsu.smartcatalogiq.com/en/2016-2017/Undergraduate-Catalog/Courses/STAT-STATISTICS/200/STAT-271G>)
- Basic Skills Exam Passing Score - offered twice a semester by the Department of Mathematical Sciences
- Calculus AB, Calculus BC or Statistics Advanced Placement (AP) Exam score of 3, 4, or 5

IMPORTANT NOTE: Basic Academic Skills Demonstration fulfillment options may not appear on the transcript, result in the award of academic credit, or satisfy general education requirements. The Basic Academic Skills requirements are used solely for the purpose of determining eligibility for enrollment in upper-division courses. All students should seek to complete the Basic Academic Skills requirements as early in their

academic program as possible. Students who postpone completion of Basic Academic Skills may be unable to progress toward degree completion in a timely manner.

Independent Study and Directed Reading Courses

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

Adjusted Credit Option

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

1. All of the student's academic history pre-dating the request, including all NMSU course credits previously attempted or completed, transfer coursework, CLEP, ACT, advanced placement, special examination, and/or military service are included in the adjustment and designated as "ADJUSTED CREDITS" on the transcript. These credits are no longer be included in the calculation of the cumulative grade point average.
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.
3. 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.
5. 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 Office of the Registrar. The Option can only be exercised during the fall or spring semester before the last day to withdraw from the university. Application forms are available in the offices of the academic deans. 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 Office of the Registrar. The fee for challenging a course is the same as the approved tuition rate. Courses may not be challenged under the S/U option. The special examination privilege is based on the principle that the student, exclusively, has the responsibility for preparing for a special examination.

Credit for Military Service

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

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

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

NOTE: Students submitting military transcripts for credit evaluation must keep in mind the Maximum Time Frame policy. See Financial Aid (<https://catalogs.nmsu.edu/nmsu/general-information/financial-aid-scholarship-services>) 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
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	2.0
D+, D, D-	1.0
F	0
W- Withdrawal	0
N- Grade not submitted	0
CR- Credit authorized, but not letter grade	0
IP- In progress	0
RR- Progress in undergraduate course	0
PR- Progress in graduate thesis	0
S- Satisfactory work ¹	0
U- Unsatisfactory work	0
I- Incomplete work	0
AU- Audit	0

¹ 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 student's performance on only that portion of the total coursework that has been graded at that time. Any student who is doing poorly, or not as well as they would like, should meet with the instructor to discuss how they can improve. Students who have concerns about their progress in multiple courses or who are considering 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 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 Registrar's 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 Registrar's Office.

RR Grade

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

W Grade Designation

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

Effect of Change of Grade

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

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

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 Registrar's Office. All such withdrawals will be registered on the student's transcript with the "W" grade indication.

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

Leave of Absence from the Graduate School

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

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

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

Administrative Withdrawals

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 students may be called to active duty, specialized training or up for disaster relief efforts with little notice active duty who wish to withdraw from the U.S. all their classes: armed forces; this includes an order for mobilization of the Reserve Forces as a result of a national emergency. However, the below policy does not pertain to a student's basic and/or annual training. Military and Veterans Programs: A student who has an order for training is encouraged VA students ordered to formally request, through the proper chain Active Duty must provide a copy of command, a postponement of their orders until the summer or the end of the semester they are currently enrolled in. to the MVP office, Garcia Annex, room 144. 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 Registrar:** All students presenting their orders to the Registrar's 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 Registrar's Office. At all other campuses, medical withdrawal begins at the Student Services Office but is ultimately finalized with the Registrar's 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 Registrar's Office. At all other campuses, medical withdrawal begins at the Student Services Office.

Withdrawal from NMSU

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

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

Students who withdraw from all courses for the semester should do so in person through the Registrar's Office. However, students who are unable to come in person may submit an e-mail using their NMSU e-mail account to registrar@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 <http://uar.nmsu.edu/withdrawals/>. Financial Aid Recipients should contact University Financial Aid and Scholarship Services before withdrawing. Students receiving funds awarded by the University Financial Aid and Scholarship Services should be aware of policies regarding withdrawal from the University.

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

Graduation Requirements

For specific graduation requirements for any degree offered at NMSU please see the Degrees, Majors, Minors and Other Academic Programs of Study (<http://catalogs.nmsu.edu/nmsu/regulations-policies/#academicprogramsofstudytext>) section (<http://catalogs.nmsu.edu/grants/regulations-policies/nmsu/regulations-policies/#academicprogramsofstudytext>), as well as the departmental sections for those requirements. These requirements will include the minimum GPA, total credits and specific course requirements for graduation.

Applying for a Degree

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

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

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

Attendance at the Commencement Ceremony

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

The academic colleges will confirm the students eligibility to participate in the commencement ceremony that is held at the close of the fall and spring semesters. Eligible candidates who are in the process of completing their final degree requirements and degree recipients from the previous summer session will participate in the fall ceremony. Students who are in the process of completing their final degree requirements in the spring must attend the spring ceremony. However, Bachelor degree

candidates that wish to participate in a spring commencement, prior to completing degree requirements in summer school may do so if they meet the following conditions:

1. Receive permission the Dean of their college
2. Show a minimum cumulative grade-point average of 2.0
3. Only need 12 or fewer credit hours to complete their degree requirements
4. These remaining credit hours must be offered in the upcoming summer schedule of classes
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 Registrar's Office. The diploma will be mailed to the address specified on the degree application, unless an address change was requested before the last day of the semester.

Undergraduate Academic Standing

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

Undergraduate Academic Warning

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

Academic Warning remains eligible for all extracurricular activities as governed by the rules of the specific activity.

While under Academic Warning the following restrictions apply:

1. 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.
2. Students will be required to enter into a contract with their advisor, approved by their department head that places further stipulations on Academic Warning. The contract may include, but is not limited to the following:
3. The student may be required to take at least one repeat course to try to improve their GPA.
4. Except for the special study skills/time management course, the student's coursework may be restricted to their major.
5. The student may be required to get tutoring help.
6. The student may be required to see an academic counselor on a specified time schedule.
7. The number of credit hours a student may register for may be restricted (due to extenuating circumstances such as the student's workload commitments).

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

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

Undergraduate Academic Probation I

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

Under Academic Probation I the following conditions apply:

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

The student must maintain a semester GPA equal to or greater than 2.0 until such time that the cumulative GPA is greater than 2.0 at which time the student goes back to good academic standing. Until the transition happens the student remains on Academic Probation I. The student will be placed on Academic Probation II if he/she is unable to maintain a 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;
2. if an I grade is removed after the student has enrolled, the new grade's effect on academic standing is based on its inclusion with grades for the term for which the student is enrolled;
3. exercise of the Adjusted Credit Option does not change academic status until subsequent grades are earned.

Academic Suspension

When a student does not achieve a semester 2.0 GPA or higher, and the cumulative remains below a 2.0 while under Academic Probation

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

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

Rescinding Academic Suspension for Summer Attendance

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

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

Graduate Academic Probation and Suspension

Graduate Academic Standing is based on both the student's semester GPA and cumulative GPA.

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 Regular Good Standing.

Graduate Academic Probation II: Is issued when a graduate student semester GPA is above a 3.0 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.

The student must maintain a semester GPA of 3.0 or higher until the cumulative GPA reaches a 3.0 or higher at which time the graduate student is placed on Good Academic Standing. 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.

Graduate Academic Suspension: When a graduate student does not achieve a semester GPA of 3.0 or higher, and the graduate cumulative GPA remains below a 3.0 while under Graduate Academic Probation II or Graduate Re-Admit on Probation II, the graduate student is placed on Graduate Academic Suspension.

Graduate students under Graduate Academic Suspension are barred from enrolling in graduate level courses at NMSU while under Graduate Academic 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 Graduate School and petition the Graduate Dean or College Academic Dean to be removed from Graduate Academic Suspension. At this time the graduate academic suspension status will be evaluated for possible removal. 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 the advising center or Graduate Dean's office.

Academic Misconduct and Grievances

Both Undergraduate and Graduate students at NMSU are expected to observe and maintain the highest academic, ethical, and professional standards of conduct. Students should consult Section III of the Student Code of Conduct in the Student Handbook (<http://studenthandbook.nmsu.edu>) for more specific information regarding the rules of conduct and definitions of misconduct. Any student found guilty of academic misconduct shall be subject to disciplinary action. Academic misconduct includes, but is not limited to, the following actions:

1. Cheating or knowingly assisting another student in committing an act of cheating or other forms of academic dishonesty
2. Plagiarism, which includes, but is not necessarily limited to: submitting examinations, themes, reports, drawings, laboratory notes, undocumented quotations, computer-processed materials, or other material as one's own work when such work has been prepared by another person or copied from another person.
3. Unauthorized possession of examinations, reserve library materials, or laboratory materials.
4. Unauthorized changing of grades on an examination, in an instructor's grade book, or on a grade report or unauthorized access to academic computer records.
5. Nondisclosure or misrepresentation in filling out applications or other university records in, or for, academic departments or colleges.

Disciplinary Suspension or Expulsion Due to Academic Misconduct

NMSU expects all students, both Undergraduate and Graduate, to regard themselves as responsible citizens on all campuses (including Alamogordo, Carlsbad, Dona Ana and Grants) and in the community. Repeated misconduct and major violations will cause the student to be subject to immediate suspension or expulsion from the university.

Students are subject to the general rules and regulations applicable in the Student Code of Conduct of the Student Handbook (<http://studenthandbook.nmsu.edu>).

Procedures to Deal with Cases of Alleged Academic Misconduct

Policies and procedures for dealing with such cases are detailed in the in the Student Code of Conduct <http://studenthandbook.nmsu.edu/>. Procedures include all course levels and all of the campuses of New Mexico State University, including Alamogordo, Carlsbad, Dona Ana, Grants and Las Cruces.

- Undergraduate Students: Questions concerning these policies and procedures should be addressed to the Dean of the Academic College
- Graduate Students: Questions concerning these policies and procedures should be addressed to the Dean of the Graduate School.

Undergraduate Academic Appeals Board

Within each college of the university or the library, an academic appeals board will be appointed by the associate dean for academics to hear student appeals. The appeals board will consist of three faculty members and two students.

Procedure for Initiating Grievance Complaints for Undergraduate Students

This procedure has been established to provide a method to resolve undergraduate student grievances at the lowest administrative level in a fair and expeditious manner.

For the purpose of this procedure, grievances are limited to alleged violations of university policy or procedures by the university or its employees, disputes with faculty and/or alleged unfair treatment. Usually this method is used to appeal a grade the student feels was not justified. Under no condition should these policies be used when the student has allegedly violated the University Code of Conduct or a contractual agreement, and at no hearing should either party have a lawyer. Any student who believes that he/she has been unjustly treated within the academic process may proceed as far as necessary in the steps detailed below. Should the alleged grievance not involve a faculty member or course, the student is to appeal directly to the department head or associate dean for academics in whose area or college the alleged grievance occurred.

The following are the steps and procedures for initiating a Grievance Complaint:

1. **Appeal to the faculty member:** The student is to submit a written appeal to the faculty member within 30 days after the start of the semester following the semester in which the alleged grievance occurred. Semester in this case refers to fall and spring only. If the alleged grievance occurs during the summer session, the student is to submit an appeal no later than 30 days into the fall semester following the summer session in which the alleged grievance occurred. The faculty member and the student are to discuss the problem. The faculty member will submit a written report outlining his or her decision to the student and department head or appropriate unit designee within ten working days of receiving the student's written appeal.
2. **Appeal to the department head or appropriate unit designee:** If a decision satisfactory to the student cannot be reached, the student may submit a written appeal to the department head or appropriate unit designee in which the course in question is taught. This is to be done within ten days of the receipt of the faculty member's written decision. The faculty member, the department head or appropriate unit designee, and the student are to meet to discuss the problem. The department head or appropriate unit designee will send a written

response outlining his or her decision to the student and faculty member within ten days of this meeting.

3. **Appeals to the associate dean for academics or associate dean of the library:** If a satisfactory decision cannot be reached among the department head or appropriate unit designee, the faculty member, and the student, the student or the faculty member may submit a written state of appeal to the associate dean for academics of the college in which the course was taught. This is to be done within ten working days after the receipt of the written decision by the department head. The associate dean may request a written recommendation from an Academic Appeals Board. Should this be the case, the Academic Appeals Board will conduct a hearing with the student and faculty member (not necessarily at the same time) to review the merits of the appeal. They may also ask for supporting evidence for or against the appeal. The Academic Appeals Board will submit the written recommendation to the associate dean within five working days following the conclusion of their process. The associate dean may meet with the student, faculty member, and department head to discuss the appeal (not necessarily at the same time). The associate dean will submit a written response outlining his or her decision to the student, faculty member, department head, and dean within ten days of the last meeting.
4. **Appeals to the dean:** The dean of the college or library in which the course is taught or in whose college the alleged grievance occurred may, at his or her discretion, review the appeal upon the written request of the student or faculty member and render a final decision. An appeal to the dean is the last step in the appeals process and the dean's decision cannot be appealed further. Should the dean not choose to review the appeal, the decision of the associate dean for academics or associate dean of the library is final.
5. **Exceptions to the time involved:** The associate dean for academics or associate dean of the library may waive the normal time frame for appeals for compelling reasons. Regardless of circumstances, academic appeals must be initiated with the course instructor within two years of the conclusion of the semester or summer session in which the course was taken.
6. **Enrollment:** A student need not be enrolled at the university to initiate an appeal.

Graduate Student Appeals Board

Each academic year a standing committee, consisting of three members of the graduate faculty and two graduate students, is appointed by the dean of Graduate School to handle grievance complaints including grade appeals. Any graduate who believes that he or she has been unjustly treated within the academic process may proceed as far as necessary in the following steps to resolve his or her grievance. In general, there are three levels at which a grievance can be addressed:

- a course instructor or advisor,
- a department head, or
- the dean of the Graduate School.

If the initial grievance is with an instructor or advisor, the process begins at Step 1. If the initial grievance is with a departmental committee, the process begins at Step 3. In all instances, the process must begin at the lowest possible level.

1. Under normal circumstances, the student should discuss the issue with the instructor/advisor.
2. If the student is unable to resolve the issue through consultation with the faculty member, the student must submit a written memorandum

detailing the grievance to the course instructor or advisor within 10 calendar days of the beginning of the following full (i.e., fall or spring) semester. The person to whom the memorandum is addressed must respond in writing within ten calendar days to the student.

3. If the student is not satisfied with the response from Steps 1-2, he or she must submit a written appeal to the department head within ten working days of the initial decision. If the student is initiating the appeal at the departmental level, he or she must do so, in writing, within ten calendar days of the beginning of the following full (i.e., fall or spring) semester. The department head must respond in writing within ten working days to the student, the instructor or advisor (if one is involved), and the dean of Graduate School.
4. If the student is not satisfied with the response from Steps 1-3, they must submit a written grade appeal letter to the academic dean's office of the college where the course is taught. If it is a grievance against a faculty member, then the academic dean's office where the course is taught would be that of the faculty member's college. The student has ten calendar days after receiving the decision of the department head. The associate dean of the given college has ten days to collect the necessary documents to make a decision on the student's appeal or grievance. Please note that additional days may be required to collect information from the faculty and/or student involved in the case. The academic dean's office where the course is taught may convene an ad hoc committee to investigate the case.
5. If after the fourth step the student or any of the other parties involved is still not satisfied with the response, he or she must present to the dean of the Graduate School within ten working days a formal letter that provides specific details regarding the nature of the grievance. Copies of all documents including course materials and grades must accompany the letter. In the letter, the student can request that their case be presented to the Graduate Student Appeals Board. After receiving a letter complaint (not an email), the dean of the Graduate School will determine whether the complaint has merit. He or she will do so after reviewing the letters from the faculty member, the department head and the office of the academic dean as well as the materials from the student and all those involved in the case. If the graduate dean determines that the appeal does not have merit, he or she will inform the appellant and other parties, in writing, within ten working days of receiving the appeal. Please note that additional days may be required to collect information from the faculty and/or student involved in the case. If the graduate dean decides that the appeal does have merit, he or she will convene the Graduate Student Appeals Board, normally within three weeks. The Graduate Student Appeals Board will conduct, within 60 days of their convening, whatever investigations and deliberations are necessary, and will forward to the dean of the Graduate School a recommendation to resolve the grievance.
6. After reviewing the recommendation of the Graduate Student Appeals Board, the dean of Graduate School will, within ten working days, inform all parties involved of his or her decision in writing.
7. The dean of the Graduate School may waive the normal time frame for grievances when either party presents compelling evidence justifying such a delay, but grievances must be launched within one year. Grade appeals involving charges of plagiarism must follow the process established on academic misconduct in the Student Code of Conduct., the web site is <http://studenthandbook.nmsu.edu/>. The Graduate School strongly encourages students to study and use the Plagiarism web site of the Library to learn of ways to avoid plagiarism: <http://nmsu.libguides.com/plagiarism>.

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, address, telephone number, date and place of birth, student ID number, honors and awards and dates of attendance.

Other information regarding disclosure of student data is posted at the Registrar's Office in compliance with the Act.

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

Social Security Numbers in Student Records

As required by law, social security numbers are collected from prospective and current students who are either applying for admission to the 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 will be necessary to submit this tax reporting.

Change in Demographic Information

Students wishing to make a formal name change, social security number update or a gender update can do so through the Registrar's Office. All students will need to fill out the "Demographic Change form" located at <https://registrar.nmsu.edu/forms/> and provide one of the following documents to the Registrar's Office.

1. **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/Green Card. * Note: Documentation is not required to add/delete hyphen, space, apostrophe, or to abbreviate a middle name to initial.
2. **Social Security Number Update:** students will need to bring the updated and signed Social Security Card. Unsigned cards will not be accepted until the signature is added.
3. **Gender Update:** students will need to bring a Government Issued ID (drivers license, state ID card or valid passport) and a Revised Birth Certificate

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

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 Registrar's Office.

Changes in Residency Status

The Registrar's Office does not determine the laws and rulings for determining Residency, these are state laws that the Registrar's Office

simply administers. An individual must establish legal residency in New Mexico before he or she is entitled to pay in-state tuition rates.

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

Petitions must be filed on or before the census date of the semester effective.

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 <https://registrar.nmsu.edu/residency/> website or the Registrar's 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 not listed in detail, but do appear as cumulative totals. Official transcripts will not be released if the student is in debt to the university.

Transcripts can either be ordered in person at the Registrar's Office or online at <https://registrar.nmsu.edu/transcripts/>, 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 current NMSU or Community College students.

Purging of Student Files

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

ASSOCIATE DEGREE AND CERTIFICATE PROGRAMS

Note: Any item in this catalog is subject to modification at any time by proper administrative procedure. Check with Academic Advising or your Program Manager to inquire about potential changes between Catalog Publications.

Curricular requirements for a specific degree may be met by completing all of the course requirements for that degree as set forth in the catalog of matriculation provided that the selected catalog is not more than six years old when the requirements for graduation are met.

Associate of Arts Degree

This degree represents the completion of the first two years of most bachelor's degree programs in the College of Arts and Sciences. Students following the Associate of Arts degree are advised to select courses that fulfill the General Education requirements for all bachelor's degree programs at New Mexico State University. It is recommended that students plan their elective courses to meet other requirements for their bachelor's degree. Undecided students are advised to follow this degree plan because it provides flexibility while deciding upon a major. Students are strongly encouraged to schedule an appointment with an Academic Adviser in the Student Services Office to discuss a specific program of study.

Associate of Science Degree

This degree represents the completion of the first two years of several bachelor's degree programs related to the sciences. Students pursuing the Associate of Science degree are advised to select courses that fulfill requirements for specific programs at New Mexico State University and that transfer to other four-year institutions. Many of the courses are General Education (G) courses. Students interested in the natural sciences (e.g., biology) or fields closely related to the sciences (e.g., allied health science) are encouraged to follow this degree plan. Students are strongly encouraged to schedule an appointment with an Academic Adviser in the Student Services Office to discuss their program of study.

Associate in General Studies Degree

Students who would like to design their own two-year program may do so under the Associate in General Studies Degree program. This program requires the student to:

- complete a total of 60 lower division credit hours (excludes non-credit courses such as any "N" suffix courses),
- complete ENGL 111G Rhetoric and Composition with a grade of C or higher,
- achieve a 2.0 cumulative grade point average, and
- complete the last 15 credits at NMSU.

Associate Degrees in:

- Arts (p. 68)
- Criminal Justice (p. 84)
- Early Childhood Education (p. 89)
- Education (p. 91)
- General Studies (p. 102)
- Pre-Business (p. 105)

- Science (p. 68)
- Social Services (p. 111)

Associate of Applied Business:

- Business (p. 75)

Associate of Applied Science Degrees in:

- Automotive Technology (p. 69)
- Computer Technology (p. 75)
- Creative Media Design (p. 79)
- Electronic Publishing (p. 93)
- Region 1 Emergency Medical Services Intermediate (p. 108)
- Welding Technology (p. 117)

Certificates in:

- Automotive Technology (p. 69)
- Building Trades - Woodworking (p. 73)
- Computer Technology (p. 75)
- Drafting and Graphics Technology (p. 85)
- Early Childhood Education (p. 89)
- Game Design (p. 98)
- Health Careers (p. 102)
- Nursing Assistant (p. 102)
- Region 1 Emergency Medical Services Basic (p. 106)
- Southwest Heritage Studies (p. 112)
- Web Fundamentals (p. 113)
- Welding Technology (p. 117)

A Note About Occupation Education Courses

Students planning to pursue a four-year degree at New Mexico State University after completing their studies at NMSU Grants need to be aware that not all occupational-education courses taken at NMSU Grants (usually those with the "OE" or "BOT" prefix) will apply toward a given major at NMSU. The number of NMSU Grants credits that may be counted toward a four-year degree depends on the major selected and any agreements providing for the acceptance of the occupational-education courses.

It is best for students to consult advisers at both NMSU Grants and NMSU early in their associate degree program to insure that the maximum number of credits will apply toward the bachelor's degree program selected.

Placement Tests

All students should take the Math and English Placement Test to assist in determining skill levels. Some students may benefit by taking developmental coursework in English and/or mathematics to strengthen skill levels in these areas. Although developmental courses do not meet degree requirements, they are certainly of benefit to those enrolled. After completing any developmental courses, new students should take the following courses before taking any other General Education requirements: COLL 101 College/Life Success or C S 110 Computer Literacy, and ENGL 111G Rhetoric and Composition.

Certificate Programs

Students who plan to earn a certificate in one of the Certificate programs are encouraged to schedule an appointment with an Academic Adviser in

the Student Services office; the student will be provided with a specific program of study. Additionally, speak with a Financial Aid adviser to ensure the certificate program is eligible for financial aid.

Additional Programs

In addition to Associate Degrees and Certificate programs offered by NMSU Grants, the college also offers additional programs of study that prepare students for Bachelor's Degrees and certification in several areas.

Students who want to earn credit in Early Childhood development may enroll in the Early Childhood (ECED) courses for CDA certification. Students are encouraged to contact the appropriate State, Tribal or local agency for specific certification requirements.

Service Learning

Service Learning is a form of “hands on” learning that combines service to the community with classroom learning. It has four components:

- Academics;
- Service to the community;
- Reflection of Service; and
- Civic Engagement and Responsibility.

Non-profit organizations, governmental agencies, and educational facilities cooperate with students and faculty to engage that student in a service learning placement that coincides with the material being learned in the class. Courses that include a service learning component will be outlined in the Schedule of Classes.

Associate of Arts Degree

60 credits

The Associate of Arts (A.A.) degree represents the completion of the first two years of several bachelor's degree programs. Students following the Associate of Arts degree program are advised to select courses that fulfill the New Mexico Higher Education Department Common Core Requirements for all programs at NMSU and that transfer to other four-year institutions. General Education courses are designated with “G” following the prefix. Since approximately half of the requirements for an A.A. degree are met with elective credit, it is recommended that students plan these electives to meet other requirements for their planned baccalaureate degree. Undecided students are encouraged to follow this degree program because it is flexible and will help structure their coursework.

NM Common Core/General Education Requirements

Area I: Communication		
ENGL 111G	Rhetoric and Composition	4
Select one from the following:		3
ENGL 203G	Business and Professional Communication	
ENGL 211G	Writing in the Humanities and Social Sciences	
ENGL 218G	Technical and Scientific Communication	
COMM 253G	Public Speaking	3
or COMM 265G	Principles of Human Communication	

Area II: Math

Select one MATH or STAT 100-200G course from the approved list of NM General Education Common Core courses. ¹	3
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Area III: Laboratory Sciences

Select two lab Science 100-200G courses listed in the NM Common Core list.	8
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Area IV & V: Social/Behavioral Sciences and Humanities/Fine Arts

Select a total of five courses between Social Behavioral Sciences and Humanities/Fine Arts:	15
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Area IV: Social/Behavioral Sciences:

Select 6-9 credits from 2 or 3 different disciplines in the NM Common Core list.

Area V: Humanities and Fine Arts:

Select 6-9 credits from 2 or 3 different disciplines in the NM Common Core list.

Campus Requirements

COLL 101 or C S 110	College/Life Success Computer Literacy	3
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Electives

Select a minimum of 21 credits from lower division elective course(s). ²	21
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Total Credits	60
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- ¹ Student's subsequent transfer degree major should guide the selection of the math course.
- ² Recommended: 8 credits from any 111-112 Second Language sequence offered at NMSU campuses. See your advisor for exact number of second language credits your selected major may require. Almost all College of Arts & 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. See your advisor or the NMSU catalog for exceptions to the language requirements.

A maximum of 9 credit hours of applied coursework may be counted towards graduation. In addition, a maximum of 9 credits of PE and PE P courses can apply to the degree. See an advisor to determine which courses are considered “applied” coursework and run a degree audit.

300-400 level credits may not be applied to degree, without approval.

Name: Program Manager: Dr. Harry Sheski

Office Location:

Phone: (505) 287-6641

Website:

Associate of Science Degree

60 credits

The Associate of Science (A.S.) degree represents the completion of the first two years of several bachelor's degree programs related to the sciences. Students pursuing the Associate of Science degree are advised to select courses that fulfill requirements for specific programs at New Mexico State University and that transfer to other four-year institutions. Many of the courses are General Education (G) courses. Students interested in the natural sciences (e.g., biology or chemistry)

or fields closely related to the sciences (e.g., allied health science) are encouraged to follow this degree plan.

Students are strongly encouraged to meet with an academic advisor for help in planning their studies and should be prepared to select their coursework from the following areas:

General Education Requirements

Area I: Communications

ENGL 111G	Rhetoric and Composition	4
ENGL 218G	Technical and Scientific Communication	3
COMM 265G	Principles of Human Communication	3
or COMM 253G	Public Speaking	

Area II: Mathematics

Select one from the following:		3
MATH 121G	College Algebra	
MATH 142G	Calculus for the Biological and Management Sciences	
STAT 251G	Statistics for Business and the Behavioral Sciences	

Area III: Science

Select two from two departments from the following:		8
ASTR 105G	The Planets	
or ASTR 110G	Introduction to Astronomy	
BIOL 111G & 111GL	Natural History of Life and Natural History of Life Laboratory	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
BIOL 110G	Contemporary Problems in Biology	
BIOL 211G & 211GL	Cellular and Organismal Biology and Cellular and Organismal Biology Laboratory	
CHEM 110G	Principles and Applications of Chemistry	
C S 171G	Introduction to Computer Science	
E S 110G	Introductory Environmental Science	
GEOG 111G	Geography of the Natural Environment	
or GEOL 111G	Introductory to Geology	
PHYS 110G	The Great Ideas of Physics	

Area IV & V: Social/Behavioral Sciences and Humanities/Fine Art

Select 15 credits from 2-3 departments from Areas IV and V:		15
Area IV: Social/Behavioral Sciences:		
Select 6-9 credits in 2-3 departments from the following:		1
ANTH G Course		
C EP 110G	Human Growth and Behavior	
C J 101G	Introduction to Criminal Justice	
ECON G Course		
PHLS 150G	Personal Health and Wellness	
JOUR 105G	Media and Society	
GEOG G Course		
GOVT G Course		
LING 200G	Introduction to Language	
PSY 201G	Introduction to Psychology	
SOC G Course		
S WK 221G	Introduction to Social Welfare	
W S 201G	Introduction to Women s Studies	

Area V: Humanities/Fine Arts:

Select 6-9 credits in 2-3 departments from the following: ¹

ART 101G	Orientation in Art
MUS G Course	
THTR G Course	
ENGL 115G	Perspectives on Literature
or ENGL 220G	Introduction to Creative Writing
HIST G Course	
PHIL G Course	

Related Course Requirements

Select 3 credits in addition to Area II: Mathematics above from the following: ¹ 3

MATH 121G	College Algebra
MATH 142G	Calculus for the Biological and Management Sciences
MATH 190G	Trigonometry and Precalculus
MATH 191G	Calculus and Analytic Geometry I
MATH 192G	Calculus and Analytic Geometry II
STAT 251G	Statistics for Business and the Behavioral Sciences

Other Math or Science Requirements

Select 12 credits in lower division "G" courses and non "G" courses from ASTR; BIOL; CHEM; C S; GEOG; GEOL; PHYS; MATH or lab science ² 12

Other Course Requirements

COLL 101	College/Life Success	3
or C S 110	Computer Literacy	

Electives

Select a minimum of 6 credits from electives	6
Total Credits	60

¹ ENGL 112 Rhetoric and Composition II, Rhetoric and Composition II recommended if you earned a C in ENGL 111G Rhetoric and Composition.

² One must be a "G" course

Name: Program Manager: Dr. Harry Sheski

Office Location:

Phone: (505) 287-6641

Website:

Automotive Technology

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

Automotive Technology - Certificate (p. 72)

AUTO 102. Electrical Measuring Instruments

2 Credits (1+2P)

Selection, operation, and care of electrical measuring instruments.

AUTO 103. Auto Mechanics Fundamentals

4 Credits (2+4P)

Theory and operation of all areas of auto mechanics. Basic repair and maintenance operations.

AUTO 105. Welding**4 Credits (2+4P)**

Set-up and adjustment of oxyacetylene and arc welding equipment, identification of metals and rod application. Skill development in laying weld beads and different weld positions.

AUTO 111. Automotive Mechanics Basics**4 Credits**

Basic maintenance procedures of the major components of the automobile using service repair manuals, hand and power tools, precision measurement equipment, fasteners and chemicals. Restricted to: Community Colleges only.

AUTO 112. Basic Gasoline Engines**5 Credits (2+6P)**

Principles of gasoline engine operation. Identification, design, function of engine components; engine disassembly and reassembly; trouble shooting, and rebuilding heads.

AUTO 113. Automotive Electricity and Electronics PT I**4 Credits (2+4P)**

Topics include mastery of DC electricity, use of digital multimeters, troubleshooting electrical problems in starting, charging and accessory systems. Restricted to Community Colleges only.

AUTO 114. Automotive Electricity and Electronics PT II**4 Credits (2+4P)**

Advanced AC and DC automotive electronic circuits. Troubleshooting electronically controlled components including supplemental restraint systems and convenience accessories. Restricted to Community Colleges only.

AUTO 115. Automotive Engine Repair**5 Credits (2+6P)**

Principles of gasoline engine operation. Identification of engine parts, operation, and function. Disassembly and reassembly. Engine problem diagnoses (cooling system, lubrication system, engine noises). Restricted to Community Colleges only.

AUTO 117. Electronic Analysis and Tune-Up of Gasoline Engines**5 Credits (2+6P)**

Theory and operation of ignition and emission control systems and fuel system. Use of troubleshooting equipment and diagnostic equipment.

Prerequisite: AUTO 120 or consent of instructor.

AUTO 118. Technical Math for Mechanics**3 Credits (2+3P)**

Mathematical applications for the automotive trade.

AUTO 119. Manual Transmission/Clutch**5 Credits (2+6P)**

Manual transmission, transfer cases, and clutch operating principles. Students will diagnose problems, remove and replace, disassemble, repair, and assemble units.

AUTO 120. Electrical Systems**4 Credits (2+4P)**

Troubleshooting and repair of starters, alternators, and associated circuits. Reading electrical diagrams, diagnosis and repair of electrical accessories.

Prerequisite: consent of instructor.

AUTO 122. Automotive Brakes**4 Credits (2+4P)**

Focus is on theory, diagnosis, and service of drum, disc, and anti-lock braking systems, brake component machining, hydraulic component reconditioning, friction and hardware replacement. Restricted to Community Colleges only.

AUTO 124. Automotive Heating and Air Conditioning**4 Credits (2+4P)**

R12 and R134A air conditioning systems maintenance diagnosis and repair. R12 to R134A conversion procedures. Troubleshooting automatic temperature controls and leak detection. Restricted to Community Colleges only.

AUTO 125. Brakes**5 Credits (2+6P)**

Theory of operation, diagnosis, repair, and maintenance of disc and drum brakes; safety and use of special tools.

AUTO 126. Suspension, Steering, and Alignment**5 Credits (2+6P)**

Types of steering systems, suspension maintenance and repair, four-wheel alignment procedures.

AUTO 127. Basic Automatic Transmission**4 Credits (2+4P)**

Theory and operation of the automatic transmission; maintenance, troubleshooting, diagnosis, and repair of components.

AUTO 129. Automotive Steering and Suspension**4 Credits (2+4P)**

Diagnosis/service of suspension components including shocks, springs, ball joints, manual and power steering systems and four wheel alignment are some areas covered. Restricted to Community Colleges only.

AUTO 130. Introduction to Transportation Industry**3 Credits**

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 155. Bio-Diesel Fuels**5 Credits (2+6P)**

Covers theory and operation of Bio-Diesel fuel powered vehicles. Blends of bio-diesel and conventional hydrocarbon-based diesel products most commonly distributed for use in the retail diesel fuel marketplace will be discussed. Production, installation, services, and repair will be discussed in detail. Pre/ Restricted to: Community colleges.

Prerequisite(s): AUTO 107, AUTO 112, and AUTO 139.

Corequisite(s): AUTO 117 and AUTO 119.

AUTO 160. Hybrid Electric Vehicles**4 Credits (2+4P)**

Covers theory and operation of electrically powered vehicles. Troubleshooting, reading and interpretation of electrical diagrams will be discussed in full detail. Repair and operation procedures will also be covered. Pre/ Restricted to: Community colleges.

Prerequisite(s): AUTO 107, AUTO 112, and AUTO 139.

Corequisite(s): AUTO 117 & AUTO 119.

AUTO 161. Non-Structural Repair**4 Credits (2+4P)**

This basic auto body course is designed to develop the students understanding of general shop safety using hand tools, pneumatic tools and power tools. This course will also cover straightening fundamentals, plastic and composite repair, panel replacement, and adjustments.

Prerequisite(s): AUTO 190.

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 emphasis on time efficiency. This course will involve the student in all areas of major collision damage repair. The student will be exposed to all applicable I-CAR industry procedures and standards involved in sheet metal and composite panel repair.

Prerequisite(s): AUTO 164.

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 207. Power Train Removal and Replacement**4 Credits**

Course reviews the removal and installation of major automotive components including the engine assembly, transmission assembly, differential and four wheel drive units. Restricted to: Community Colleges only.

AUTO 208. Introduction to Alternative Fueled Vehicles**3 Credits**

Course will familiarize student with conditions that are resulting in the alternative fueled vehicle movement as well as the design and safety precautions unique to each alternative fuel. Propulsion systems covered include electric vehicles, bio-fueled vehicles, hybrid-electric vehicles and hydrogen powered vehicles, along with other emerging technologies as appropriate. Restricted to: Community Colleges only.

Prerequisite(s): AUTO 113 and AUTO 114.

AUTO 209. Hybrid Vehicle Service Techniques**3 Credits**

Designed for experienced automotive technicians, this course will cover safety procedures, design, operational overview and service techniques as well as minor diagnosis and repair of all classifications of hybrid-electric vehicles. Each student must possess legal Class '0' high voltage gloves and liners to attend this class. Restricted to: Community Colleges only.

Prerequisite(s): AUTO 113 and AUTO 114.

AUTO 221. Cooperative Experience I**1-6 Credits**

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

AUTO 255. Special Problems in Automotive Technology**1-5 Credits**

Individual studies in areas directly related to automotive technologies. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

AUTO 295. Special Topics**1-6 Credits**

Topics to be announced in the Schedule of Classes.

Name: Program Manager: Dr. Harry Sheski

Office Location:

Phone: (505) 287-6641

Website:

Automotive Technology - Associate of Applied Science

60 credits

The Associate of Applied Science in Automotive Technology provides training for employment as an automotive technician or in a related field. The Automotive Technology laboratory and classroom facilities have been equipped with the most current test and training equipment available. Classroom instruction is combined with practical training in the laboratory to provide students with service and repair procedures required for ASE certification. Additional training is available for those technicians seeking to update current practices in the ASE certification areas.

Program Requirements

General Education Requirements

<i>Area I: Communications</i>		
ENGL 111G	Rhetoric and Composition	4
ENGL 203G	Business and Professional Communication	3
or ENGL 218G	Technical and Scientific Communication	
COMM 253G	Public Speaking	3
or COMM 265G	Principles of Human Communication	
<i>Area IV: Social/Behavioral Sciences</i>		
PSY 201G	Introduction to Psychology	3
SOC 101G	Introductory Sociology	3

Automotive Technology Core

AUTO 105	Welding	4
AUTO 112	Basic Gasoline Engines	5
AUTO 117	Electronic Analysis and Tune-Up of Gasoline Engines	5
AUTO 118	Technical Math for Mechanics ¹	3
AUTO 119	Manual Transmission/Clutch	5
AUTO 120	Electrical Systems	4
AUTO 125	Brakes	5
AUTO 126	Suspension, Steering, and Alignment	5
AUTO 132	Automotive Air-Conditioning and Heating Systems	4
or AUTO 127	Basic Automatic Transmission	
AUTO 137	Fuel Systems and Emission Controls	4
Total Credits		60

¹ Or any higher level MATH course

Automotive Technology - Certificate

33 Credits**Automotive Requirements**

Select one from the following:		5
AUTO 119	Manual Transmission/Clutch	
AUTO 127	Basic Automatic Transmission (& AUTO course) ¹	
AUTO 125	Brakes	5
AUTO 126	Suspension, Steering, and Alignment	5

AUTO 112	Basic Gasoline Engines	5
AUTO 117	Electronic Analysis and Tune-Up of Gasoline Engines	5
AUTO 120	Electrical Systems	4
AUTO 137	Fuel Systems and Emission Controls	4
Total Credits		33

¹ If student takes AUTO 127 Basic Automatic Transmission for 4 cr, student will need to take other AUTO credits to reach the minimum 33 credits for the Certificate.

Building Trades - Woodworking

Building Trades - Woodworking Certificate (p. 75)

BCT 100. Building Trades I 8 Credits (2+12P)

Equipment and general safety. Human relations, building construction surveying, footings, foundation form work, framing, sheathing, insulation. Basic electrical wiring and plumbing. Classroom instruction, on-the-job training, and problem solving.

BCT 101. Introduction to Construction I 2 Credits (2+1P)

Basic safety, including personal protective equipment, how to perform basic construction tasks safely, and what to do if an accident occurs. Includes basic construction methods. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 102 and BCT 103.

BCT 102. Introduction to Construction II 2 Credits (2+1P)

Introduction to power and hand tools, blueprints, and basic rigging hardware and techniques. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 101 and BCT 103.

BCT 103. Introduction to Construction Laboratory 3 Credits

Provides students the opportunity to practice skills they have acquired in BCT 101 and BCT 102. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 101 and BCT 102.

BCT 104. Woodworking Skills I 3 Credits (1+4P)

Use and care of hand tools and elementary power tools, safety procedures, and supervised project construction.

BCT 105. Woodworking Skills II 3 Credits (1+4P)

Advanced woodworking skills to include use of advanced power tools, power tool safety, and supervised construction.

Prerequisite: BCT 104 or consent of instructor.

BCT 106. Woodworking Theory and Practice 3 Credits (2+2P)

History of wood manufacturing, industrial techniques, wood characteristics, stains and finishes. Design and construction of minor wood projects.

BCT 107. Painting I 4 Credits (2+4P)

Types and applications of paints and clear coatings. Use of fasteners, caulks, and sealants. Restricted to: Community Colleges only.

BCT 108. Painting Level II 4 Credits (2+4P)

Continuation of BCT 107: Painting failures and remedies, preparation, drywall patching and wood finishing. Restricted to: Community Colleges only.

Prerequisite(s): BCT 107.

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 112. Basic Masonry 4 Credits (2+4P)

Covers use of brick and concrete blocks; basic techniques for mixing mortar and laying masonry units; describes the hand and power tools used in masonry, including safety; includes mathematics used to perform calculations related to masonry units; explains the types and properties of mortar and the materials used in mixtures. Restricted to: Community Colleges only.

BCT 114. Basic Carpentry 3 Credits (1+4P)

Covers orientation to the trade; wood building materials, fasteners, and adhesives; detailed description and explanations of hand-operated and power tools, including safety; framing basics including laying out and constructing of wood floors, walls and ceilings and includes roughing in of door and window openings. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 115 and BCT 116.

BCT 115. Carpentry Level I 3 Credits (1+4P)

Describes the various kinds of roofs and provides instructions for lay out of the different roofing systems. Describes the various types of windows, skylights, and exterior doors and provides instruction for installation. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114 and BCT 116.

BCT 116. Basic Carpentry Lab**2 Credits**

Provides students the opportunity to practice skills they have acquired in BCT 114 and BCT 115. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114 or BCT 115.

BCT 117. Plumbing 1A**3 Credits (2+2P)**

This course will introduce students to the plumbing profession. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field. Restricted to Community Colleges campuses only.

BCT 118. Math for Building Trades**3 Credits**

Geometry, algebra, arithmetic, and basic trigonometry pertaining to mathematical applications in the building trades field. Same as OEET 118, DRFT 118, OEPB 118.

Prerequisite: CCDM 103N.

BCT 119. Plumbing 1B**3 Credits (2+2P)**

This course continues the introduction of students to the plumbing profession. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field. Restricted to Community Colleges campuses only.

Prerequisite(s): BCT 117.

BCT 121. Construction Law**3 Credits**

Using the New Mexico Contractors Reference manual, this course covers licensing requirements and regulations, business, law and other important aspects of owning and running a construction business. Restricted to: Community Colleges only.

BCT 130. Professional Development and Leadership**1 Credit**

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing or participating in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: BCT majors. S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

BCT 150. Forklift Operation**1 Credit**

Classroom instruction and hands-on practice to prepare students to operate a forklift safely in the workplace. Students will have the opportunity to earn a forklift operator's permit. Consent of Instructor required. Restricted to Community Colleges campuses only.

BCT 200. Building Trades II**8 Credits (2+12P)**

Continuation of BCT 100: roofing; exterior and interior finish; masonry; door, window, and cabinet installation.

BCT 206. Advanced Cabinetmaking**3 Credits (1+3P)**

Advanced cabinetmaking skills, to include expert use of hand and power tools, professional construction and finishing techniques.

Prerequisites: BCT 105, BCT 106, or consent of instructor.

BCT 209. PLUMBING II**3 Credits (2+3P)**

Continuation of BCT 109. Provides students the opportunity to gain more practice in the skills and knowledge learned in Plumbing I. Students will install fixtures and run the various plumbing supply lines from Plumbing Level I. The course included hands on projects in which the students apply many of the competencies that have been presented through the National Center for Construction and Education Research (NCCER) Plumbing Program. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): BCT 109.

BCT 217. Building and the Environment**3 Credits**

Introduction to LEED's, and Green Building Fundamentals, sustainability, sustainable design and green building evaluating cost implication of green building. Describes site development; managing site water runoff, improving a project's water use efficiency. Discusses renewable energy sources, and introduces student to generating power on-site using renewable energy sources, improving a building's indoor environment quality, improving the building industries' environmental performance and environmental aspects of building maintenance, re-use and conservation. Restricted to: Community Colleges only.

BCT 218. Plumbing 2**4 Credits (2+4P)**

This course builds on the skills and knowledge students have gained in previous BCT introduction to plumbing courses, focusing on installation of plumbing systems. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field.

Prerequisite(s): BCT 117 and BCT 119.

BCT 221. Cooperative Experience I**1-4 Credits**

Supervised cooperative work program. Student is employed in an approved occupation and is supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

BCT 222. Alternative Building**3 Credits (2+2P)**

Exploration of different types of building techniques and materials other than the traditional wood framed structures. Materials and techniques will include adobe, straw bale, insulated concrete forms, rammed earth and structural insulated panels with an emphasis on "green building" methods. Restricted to: Community Colleges only.

BCT 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.

Name: Program Manager: Earl Prewitt

Office Location: McClure 302A

Phone: (505) 287-6678

Website:

Building Trades - Woodworking Certificate

16 Credits minimum

The 16 credit hour certificate in Building Trades Woodworking is designed to provide an introduction to the theory and skills necessary for the construction of wood based items such as furniture and cabinets.

Building Trades Requirements

BCT 104	Woodworking Skills I	3
BCT 105	Woodworking Skills II	3
BCT 106	Woodworking Theory and Practice	3
BCT 206	Advanced Cabinetmaking	3
BCT 255	Special Topics (Furniture Making)	3
BCT 290	Special Problems in Building Technology	1
Total Credits		16

Business

Business - Associate of Applied Business (p. 75)

Name: Program Manager: Dr. Harry Sheski

Office Location: Martinez Hall, Administrative Offices

Phone: (505) 287-6648

Website:

Business - Associate of Applied Business

60 credits

The Associate degree in Applied Business is designed to prepare students for middle-level entry jobs in business. The general program surveys the fundamentals of business operations giving special consideration to basic accounting practices, basic business law, economics, fundamentals of marketing, and management of human resources.

General Education Requirements

<i>Area I: Communications</i>		
ENGL 111G	Rhetoric and Composition	4
ENGL 203G	Business and Professional Communication	3
or ENGL 218G	Technical and Scientific Communication	
COMM 265G	Principles of Human Communication	3
or COMM 253G	Public Speaking	
<i>Area IV: Social/Behavioral Sciences</i>		
Select one from the following:		3
ECON 251G	Principles of Macroeconomics	
ECON 252G	Principles of Microeconomics	
ECON 201G	Introduction to Economics	
PSY 201G	Introduction to Psychology	3
or SOC 101G	Introductory Sociology	

Applied Business Core Requirements

ACCT 221	Financial Accounting	3
ACCT 222	Management Accounting	3
BLAW 230	Business Law	3
BMGT 210	Marketing	3
BMGT 216	Business Math (prerequisite CCDM 103N) ¹	3
or MATH 120	Intermediate Algebra	
BMGT 221	Internship I	3
BMGT 240	Human Relations	3
BUSA 111	Business in a Global Society	3
FIN 210	Financial Planning and Investments	3
MGT 201	Introduction to Management	3

Other Course Requirements

COLL 101	College/Life Success	3
or C S 110	Computer Literacy	
OECS 215	Spreadsheet Applications	3

Electives

Select 8 credits from approved lower division electives from ACCT, ECON, BMGT, MATH 120, OECS, CS ²

Total Credits 60

¹ Or any higher level Math course

² Total degree credits are a minimum of 60; any Business related course

Note: This is a terminal degree and not designed to transfer to a Bachelor's degree program within NMSU. Those students planning to earn a Bachelor's degree will need to complete all 36 credits of general education requirements, including MATH 121G College Algebra or higher.

Computer Technology

Computer Technology - Associate of Applied Science (p. 78)

Computer Technology - Certificate (p. 79)

OECS 101. Computer Basics

1 Credit

Hands-on instruction to introduce computer use and commonly used software. Graded S/U.

OECS 105. Introduction to Information Technology

3 Credits

Introduction and application of basic information technology skills using personal computers including operating systems, common office application software, and the impact of technology on the economy and society. Restricted to: Community Colleges only.

OECS 110. Introduction to Power Point

1 Credit

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.

Prerequisites: BCIS 110, C S 110, or OECS 105.

OECS 125. Operating Systems

1-3 Credits

Installation, configuration and optimization of current operating systems. Restricted to: Community Colleges only.

OECS 128. Operating Systems Linux/Unix**3 Credits**

Installation, configuration, and use of Linux/Unix operating system software and utilities including hardware management, file management, use of command line, and scripting. Restricted to: Community Colleges only.

OECS 140. Introduction to Game Production Industry**3 Credits**

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.

Prerequisites: Either BCIS 110, C S 110, or OECS 105.

OECS 141. Introduction to Interactive Game Programming**3 Credits**

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 Only.

Prerequisites: C S 110, BCIS 110, or OECS 105.

OECS 145. Mobile Application Development**1-3 Credits (1-3)**

An in-depth review of concepts, design strategies, tools and APIs needed to create, test and deploy applications for mobile devices. Topics include: design of mobile user interfaces, application life-cycle, multi-threading, inter-process communication, data persistency, background services, geo-location/mapping, graphics/animation, performance, and security. Restricted to: Community Colleges only.

OECS 150. Introduction to Programming Using Visual Basic**4 Credits**

Introduction to algorithmic problem-solving concepts, structured programming design-oriented application programming interface development. Solutions to problems are implemented using the Visual Basic programming language in the Windows environment, with connection to Access databases as applicable. Restricted to: Community Colleges only.

Prerequisite(s): CS 110, OECS 220, and MATH 120.

OECS 155. Special Topics - Introductory Computer Technology**0.5-4 Credits (.5-4)**

Topics to be announced in the Schedule of Classes. May be repeated up to 8 credits.

OECS 185. PC Maintenance and Repair I**1-3 Credits**

Introduction to most common types of PC configurations, installations, and failures. This course will explore troubleshooting skills for maintaining and repairing common hardware and software related problems. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

OECS 192. C++ Programming I**3 Credits**

Development of skills in programming using the C++ programming language. Restricted to: Community Colleges only.

OECS 195. Java Programming I**1-3 Credits**

Developing of skills in programming using the Java programming language. Restricted to: Community Colleges only.

OECS 200. Accounting on Microcomputers**3 Credits**

Fundamental accounting principles using popular microcomputer software to include G/L, A/R, A/P, purchase order, billing, inventory, and forecasting modules.

Prerequisite: ACCT 252 or BOT 121.

OECS 203. UNIX Operating System**1-3 Credits**

Introduction to the UNIX operating system using Telnet to access a remote UNIX system. Basic UNIX commands and file system concepts.

Prerequisite: C S 110, B CS 110G or OECS 105.

OECS 204. Linux Operating System**1-3 Credits**

Install and configure the Linux operating system on X86 systems. Covers issues involved in maintaining operating system, networking, creating and managing users, and installing and updating software. General procedures for working with operating system includes maintaining disk space, preserving system security, and other related topics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

OECS 205. Advanced Operating Systems: Administration**3 Credits**

Examines operating systems designed for PC, minicomputers and mainframes. Covers maintaining operating systems, creating and managing users, and installing and updating software. General procedures for working with operating systems will include maintaining disk space, preserving system security, providing mail services, among other topics. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 128.

OECS 207. Windows**0.5-3 Credits**

Installation, configuration, and maintenance of Windows. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): OECS 105 or BCS 110G or CS 110G or consent of instructor.

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 for a maximum of 6 credits.

Prerequisite: C S 110G, BCIS 110 or OECS 105.

OECS 209. Computer Graphic Arts**1-3 Credits**

Basic graphics composition using computer programs to include editing and manipulating graphic images, clip-art, and printing of pictures. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes.

Prerequisite: OECS 105, C S 110, or OECS 101.

OECS 211. Word Processing Applications**1-3 Credits**

Basic word processing to include composing, editing, formatting, and printing of documents. May be repeated under different subtitles listed in the Schedule of Classes for a maximum of 6 credits.

Prerequisites: C S 110, BCIS 110 or OECS 105.

OECS 213. Image Processing**1 Credit**

Introduction to digital imaging acquisition and editing. Use of digital cameras and computer graphic software for business and personal use. Graded S/U.

Prerequisites: C S 110, BCIS 110 or OECS 105.

OECS 214. Creating a Web Page**1 Credit**

Introduction to creating Web pages for business and personal use. Graded S/U.

Prerequisites: C S 110, BCIS 110 or OECS 105.

OECS 215. Spreadsheet Applications**1-3 Credits**

Use of spreadsheets to include graphics and business applications. May be repeated for a maximum of 6 credits.

Prerequisites: C S 110, BCIS 110 or OECS 105.

OECS 216. Programming for the Web**3 Credits**

Designing web-based applications using appropriate programming language(s) such as, but not limited to HTML, PHP, MySQL, SQL, Java, Perl, C or C++. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): One semester of any programming course.

OECS 220. Database Application and Design**1-3 Credits**

Creating, sorting, and searching of single and multfile databases to include report generation and programming database commands. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes. Restricted to: Community Colleges only.

Prerequisite(s): C S 110 OR BCIS 110 OR E T 120 OR E T 122 OR OECS 105.

OECS 221. Internship I**1-3 Credits**

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

OECS 222. Internship II**1-3 Credits**

Continuation of OECS 221. Each credit requires specified number of hours of on-the-job work experience. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 221 and consent of instructor.

OECS 227. Computer Applications for Technicians**3 Credits**

Computer applications for service technicians in various disciplines. Hardware and software applications explored. Includes operating systems, high level programming, and networking hardware and software.

OECS 230. Data Communications and Networks I**1-3 Credits**

Definition of data communication; survey of hardware applications and teleprocessor software; examination and design of networks. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 185.

OECS 231. Data Communications and Networks II**1-3 Credits**

Installation and application of popular microcomputer network software. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 230.

OECS 232. Implementing and Supporting Networks I**3 Credits**

Knowledge and skills relating to post-installation and day-to-day administration tasks in a single-domain or multiple-domain network.

Prerequisite: OECS 230 or OECS 261.

OECS 234. Linux Server**3 Credits**

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 6 credits.

Prerequisite(s): OECS 128, OECS 203 or OECS 204.

OECS 235. Structured Query Language (SQL)**1-3 Credits**

Installation, configuration, administration, and troubleshooting of SQL client/server database management system.

Prerequisite: OECS 185, OECS 207, OECS 230 or OECS 261.

OECS 237. Windows Server**3 Credits**

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. Restricted to: Community Colleges only.

Prerequisite(s): OECS 207.

OECS 245. Game Programming I**3 Credits**

Development of programming skills for games and animation using current programming languages and tools. May be repeated for a maximum of 6 credits.

Prerequisite: consent of instructor.

OECS 250. Systems Analysis and Design I**3 Credits**

Analysis, configuration, design and testing of organizations' work flow as it relates to hardware, software, data, procedures and personnel. Systems Life Cycle approach matching end users' needs to feasible financial, technical and operational solutions. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 220.

OECS 252. Project Management**3 Credits**

Utilization of project management software to establish, control and coordinate timelines, budgets, and work teams. Introduction to methods and principles of oriented project management emphasizing team-based performance.

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 of 3 credits.

Prerequisite(s): C S 110, BCIS 110 or OECS 105.

OECS 261. Introduction to Networks**4 Credits**

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.

Prerequisite(s): C S 110G, BCIS 110G, OECS 105, or E T 120.

OECS 262. Essentials of Routing and Switching**4 Credits**

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. Restricted to: Community Colleges only.

Prerequisite(s): OECS 261.

OECS 263. Network Fundamentals**4 Credits**

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. Restricted to: Community Colleges only.

Prerequisite(s): OECS 262.

OECS 264. Network Routing Protocols**4 Credits**

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. Restricted to: Community Colleges only.

Prerequisite(s): OECS 263.

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 272. Introduction to Bioinformatics Research**3 Credits**

Bioinformatics is the intersection of computer science and molecular biology. It is the science of informatics as applied to biological research. This course develops the understanding of genomics research techniques and how large amounts of complex data is managed. This research based class is designed to introduce skills necessary to enter this high demanding field of study. Restricted to: Community Colleges only.

Prerequisite(s): BCIS 110, or C S 110, or OECS 105.

OECS 275. PC Maintenance and Repair II**1-3 Credits**

Continuation of OECS 185. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 185.

OECS 280. Desktop Publishing I**3 Credits**

Design and production of publication materials to fill the needs of business communities, using a microcomputer. May be repeated for a maximum of 6 credits. Same as BOT 280.

Prerequisites: either BCIS 100G, C S 110, OECS 105.

OECS 285. Fundamentals of Multimedia Applications**1-3 Credits**

Fundamentals of designing video, audio and web-based multimedia presentations for business and technical needs. Restricted to: Community Colleges only.

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. DAS Occupational Education, Dental Assisting. Restricted to: Community Colleges only.

Name: Program Manager: Karen Henry

Office Location: McClure, room 301

Phone: (505) 287-6656

Website:

Computer Technology - Associate of Applied Science

60 credits

The Associate of Applied Science in Computer Technology prepares students for entry-level work in the IT field. Skills include PC repair, installing and configuring operating systems, managing network systems and installing and configuring standard business software.

(See also Certificate in Computer Technology (p. 79))

General Education Requirements

Area I: Communications

ENGL 111G	Rhetoric and Composition	4
ENGL 203G	Business and Professional Communication	3
or ENGL 218G	Technical and Scientific Communication	
COMM 253G	Public Speaking	3
or COMM 265G	Principles of Human Communication	

Area III: Science

Select one from the following:		4
ASTR 105G	The Planets	
ASTR 110G	Introduction to Astronomy	
BIOL 111G & 111GL	Natural History of Life and Natural History of Life Laboratory	
BIOL 110G	Contemporary Problems in Biology	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
CHEM 110G	Principles and Applications of Chemistry	
C S 171G	Introduction to Computer Science	
E S 110G	Introductory Environmental Science	
GEOG 111G	Geography of the Natural Environment	
GEOL 111G	Introductory to Geology	
PHYS 110G	The Great Ideas of Physics	

Area IV: Social/Behavioral Sciences

PSY 201G	Introduction to Psychology	3
or SOC 101G	Introductory Sociology	

Computer Technology Core

C S 110	Computer Literacy	3
or OECS 105	Introduction to Information Technology	
OECS 125	Operating Systems	3
or OECS 269	Network Security	
OECS 185	PC Maintenance and Repair I	3
OECS 204	Linux Operating System	3
OECS 207	Windows	3
OECS 215	Spreadsheet Applications	3
OECS 221	Internship I	3
OECS 230	Data Communications and Networks I	3
OECS 231	Data Communications and Networks II	3
OECS 260	Hypertext Markup Language (HTML)	3
or CMT 130	Introduction to Web Design	

Other Course Requirements

MATH 120	Intermediate Algebra (or any higher MATH course)	3
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Electives

Select 10 credits from the following:		10
COLL 101	College/Life Success	
CS/OECS/CMT Electives		

Total Credits		60
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Computer Technology - Certificate

30 credits

Students are given a variety of hands-on experiences to prepare them for computer related careers. There are opportunities for employment

in a variety of settings including software support, computer repair, information management, networking and education.

Computer Technology Courses

C S 110	Computer Literacy	3
or OECS 105	Introduction to Information Technology	
OECS 125	Operating Systems	3
or OECS 269	Network Security	
OECS 185	PC Maintenance and Repair I	3
OECS 204	Linux Operating System	3
OECS 207	Windows	3
OECS 215	Spreadsheet Applications	3
OECS 230	Data Communications and Networks I	3
OECS 231	Data Communications and Networks II	3
OECS/CS/CMT Electives		6
Total Credits		30

Creative Media Design

Creative Media Design - Associate of Applied Science (p. 83)

CMT 100. Introduction to Visual Communications**3 Credits**

Overview of the process of crafting a digital product from conception to final. Incorporates basic principles of art and design, typography, layout, color and imagery, logos and advertising basics. Same as OEGR 105.

CMT 108. Introduction to Media Technologies**1-3 Credits (1-3)**

Introduction to various media technologies. Restricted to: Community Colleges only. Cross-listed: OEGR 108

CMT 110. Introduction to Web Design**1 Credit**

Basics of creating simple web sites for personal use.

CMT 115. Digital Photography and Imaging I**3 Credits (2+2P)**

Principles and techniques of photography using digital equipment with an emphasis on lighting, focus, and composition.

CMT 120. Introduction to Creative Media**3 Credits (2+2P)**

Exploration and discovery of the creative processes through art, music, theater, narrative, and other avenues.

CMT 126. Film Crew Training I**9 Credits**

This course was designed in collaboration with the NM IATSE Local 480 union and the NM Film Office and focuses on providing hands-on training for students wishing to work on film crews. The course will offer an overview of the primary below-the-line craft areas of film production. Restricted to: Community Colleges only.

CMT 130. Introduction to Web Design**3 Credits (2+2P)**

Introduction to web development techniques, theory, and design. Incorporates HTML and industry-standard web editing software in developing various web sites. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ART 161 OR CMT 145.

CMT 135. Introduction to 3D Computer Animation**3 Credits (2+4P)**

Learning to work in a 3D environment. Introduction to the basics of modeling, animation, dynamics, and rendering. Working with polygons, NURBS and subdivisions, and editing in multiple interfaces. May be repeated for a maximum of 6 credits.

CMT 140. Print Media I**3 Credits (2+2P)**

Creation and design of publications and presentation materials using page layout software. May be repeated for a maximum of 6 credits.

CMT 142. Computer Illustration**3 Credits (2+2P)**

Preparation of digital graphics with a vector or draw program for use in print, web, video, animations, and multimedia. May be repeated for a maximum of 6 credits.

CMT 145. Image Processing I**3 Credits (2+2P)**

Design and creation of digital graphics using a raster or bitmap program for use in print, multimedia, video, animation and web. May be repeated for a maximum of 6 credits.

CMT 150. 2D Animation**3 Credits (2+2P)**

Concepts and techniques in storyboarding and creating interactive 2D animations for web, multimedia and video.

Prerequisites: CMT 142 or CMT 146.

CMT 151. Evolution of Electronic Games**3 Credits (2+2P)**

Focus on the evolution of video games and how they have shaped mainstream entertainment. May be repeated up to 6 credits.

CMT 155. Selected Topics**1-4 Credits**

Specific titles to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits. Same as OEGR 155.

CMT 156. Film Crew Training II**9 Credits**

The purpose of this course is to provide applied training in a specific film production crew craft area, in which a student has decided to specialize. The various craft areas include but are not limited to, Art Dept., Grip., Electric, Sound, Production Office, Script Supervision, Props, Set Dressing, Locations, Special Effects, Hair/Makeup, Wardrobe, Production Assistant/Set Operations. Restricted to: Community Colleges only.

Prerequisite(s): CMT 126.

CMT 160. Modeling and Animation**3 Credits (2+2P)**

Building on student's knowledge of 2D animation, covers modeling, animating objects and scenes in a 3D environment using various camera and lighting effects. May be repeated for a maximum of 6 credits.

Restricted to: Community Colleges only.

CMT 165. Writing and Storyboarding**3 Credits (2+2P)**

Learning good writing principles to create storyboards and scripts that communicate the overall picture of the project, timing, scene complexity, emotion, and resource requirements.

Prerequisite: CMT 135 or CMT 160.

CMT 170. History of Film: A Global Perspective**3 Credits**

Explores the history of cinema from the earliest 19th century developments to the present digital video revolution. Offers students a broader base of understanding of the tools and methodologies used in the craft.

CMT 175. 3-D Character Design**3 Credits (2+4P)**

Focus on designing a character and then taking that design and building it in 3D using intermediate modeling techniques. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 135 or CMT 160.

CMT 180. Design Principles**3 Credits (2+2P)**

Techniques and theories of design principles, including layout foundations, logo building, type, color, and story-boarding and their application to print, web, animation and video. Restricted to: Community Colleges only.

Prerequisite(s): CMT 142 or CMT 146.

CMT 182. Environmental Modeling, Shading and Lighting**3 Credits (2+4P)**

Modeling design techniques to create natural and architectural environments to be used for animated films and gaming. Study of various lighting techniques, shading and shadowing.

Prerequisite: CMT 135 or CMT 160.

CMT 185. 3D Shading and Lighting Techniques**3 Credits (2+4P)**

Study of various global, scene and character lighting techniques, shading and shadowing, and creating atmospheres and reflections that bring computer generated 3D scenes to life. Examines environmental and studio lighting to bring real life experience into the digital production process.

Prerequisite: CMT 135 or CMT 160.

CMT 190. Digital Video Production I**3 Credits (2+4P)**

A hands-on study of the tools and techniques used to produce the independent video. Through the production of various short projects, the student explores how the ideas of the writer/director are translated into a visual story. May be repeated for a maximum of 6 credits.

CMT 192. Acting for the Camera**3 Credits (2+2P)**

Covers acting techniques, body movement, monologues and auditioning. Students will gain professional acting experience on camera as well as learn what is expected on a film or video set. Restricted to: Community College only.

CMT 195. Digital Video Editing I**3 Credits (2+2P)**

A study of the basic tools and techniques of non-linear digital video editing. May be repeated for a maximum of 6 credits.

CMT 200. Critical Game Studies**3 Credits (2+2P)**

Focus on creating a complete design document utilizing techniques and standards used in the industry today. May be repeated for up to 6 credits. Restricted to: Community Colleges only.

CMT 205. Cinematography**3 Credits (2+2P)**

Theory and techniques of visual design in cinematography and the aesthetics of lighting. May be repeated for a maximum of 6 credits. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 190.

CMT 206. Principles of Sound**3 Credits (2+2P)**

Study of soundtrack design theory, and the use of audio editing software that is compatible with media editing software to create soundtracks for different visual media. Pre/ Restricted to: Community Colleges only.

Corequisite(s): CMT 195.

CMT 210. Digital Video Production II**3 Credits (2+2P)**

Advanced techniques of the tools and application of professional film making. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 190.

CMT 215. Digital Video Editing II**3 Credits (2+2P)**

Advanced features of digital video, audio/music, and titling production software. Included are color correction, vector scopes, motion effects, and advanced editing techniques used by filmmakers. May be repeated for a maximum of 6 credits. Same as OEGR 215.

Prerequisite: CMT 195 or OEGR 210.

CMT 216. Digital Photography and Imaging II**3 Credits (2+2P)**

Provide understanding and skills needed for advanced digital capture, editing, optimizing and manipulating photographic images for print, web and multimedia applications. The course will prepare students to make more advanced technical and more refined aesthetic decisions relative to specific photographic applications. Restricted to: Alamogordo campus, Carlsbad campus, Dona Ana campus.

Prerequisite(s): CMT 115.

CMT 217. Layer Animation & 3D Applications in Photoshop**1 Credit**

This is an advanced course in Photoshop 2D techniques and motion graphic applications pertaining to the animation of Photoshop Layers juxtaposed over time and space relationships. Restricted to: CMT majors. Restricted to Community Colleges only.

Prerequisite(s): CMT 145.

CMT 218. Video for Social Interaction and Informal Commerce**3 Credits**

The use of DSLR video has opened the way for photographers to be able to add video as a component of expression. This course shows the ways that this tool can be used for on-line instructional videos, demonstrations and presentations. As more and more commercial entities become involved in YouTube and other social media, this becomes a vocationally viable form of visual communication. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: Community Colleges only.

CMT 220. Environmental Scene Design**3 Credits (2+4P)**

Modeling design techniques used to create environments and scenes for use in animated films and games. Investigation of both natural and architectural environments to be recreated in the virtual world.

Prerequisite: CMT 135 or CMT 160.

CMT 221. Internship**1-3 Credits**

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 9 credits. Consent of Instructor required. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

CMT 222. Pre-production Management**3 Credits (2+2P)**

Pre-production planning paperwork breakdowns, budgeting, and scheduling; taking a project from start to finish from a producers standpoint.

Prerequisite: CMT 190.

CMT 223. Media Production Services**1-3 Credits**

A design studio environment in which students obtain real-world experience while providing service to college and non-profit associations with faculty supervision using a variety of media. Can be used with permission to fulfill cooperative requirement. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 180 or ART 163.

CMT 224. Environmental Scene Design II**3 Credits**

Second level of 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. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 220.

CMT 225. Anatomical Character Design**3 Credits (2+4P)**

Focus on building anatomy-based 3D characters. Advanced study in NURBS, subdivisions, and polygon modeling techniques used to create fully functional and realist models. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 175.

CMT 226. Film Crew Cooperative Experience**3-6 Credits (3-6)**

Industry production experience in specific craft areas for film crew technicians who have successfully completed two semesters of FTTP. Restricted to: Dona Ana campus, Carlsbad campus.

Prerequisite(s): CMT 156.

CMT 227. Advanced Character Animation**3 Credits (2+2P)**

Focus on complex rigging techniques as well as utilizing advanced animation functions to blend multiple animations into complex animations. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): CMT 160.

CMT 228. Level Design Concepts**3 Credits (2+2P)**

Focus on the design and creation of video game levels. Dealing with the challenges and pitfalls of different video game genres. May be repeated for a maximum of 6 credits. Prerequisite: CMT 200

CMT 229. 3D Digital Sculpting**3 Credits**

Introduce students to the 3D Sculpting programs which are the industry standard sculpting programs. Students will learn how to create complex high polygon sculpts and normal maps and transfer the models into 3D studio Max and Autodesk Maya. May be repeated up to 6 credits.

Restricted to: Community Colleges only.

Prerequisite(s): CMT 160.

CMT 230. Web Design II**3 Credits (2+2P)**

Creating and managing well-designed, organized web sites using HTML and web development software. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only. Cross-listed: OEGR 230

Prerequisite(s): CMT 130.

CMT 235. Web Design for Small Businesses**3 Credits (2+2P)**

Technology and techniques for designing and building a web presence for small business. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only. Cross-listed: OEGR 235

Prerequisite(s): CMT 130.

CMT 236. Digital Audio Fundamentals**3 Credits (2+2P)**

Advanced digital audio post production and recording techniques using current entertainment industry-standard software and hardware.

Restricted to: Community Colleges only.

CMT 237. Digital Audio Editing**3 Credits (2+2P)**

Techniques in digital audio composing, recording, editing, processing, MIDI & virtual instruments. Additional course topics include signal routing and processing, digital console design, audio signal paths, digital plug-ins, audio file management. Restricted to: Community Colleges only.

Prerequisite(s): CMT 236.

CMT 240. Print Media II**3 Credits (2+2P)**

Refining of technical design skills using advanced features of page layout software in preparing a variety of business-related documents. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 140 or OEGR 140.

CMT 242. Advanced Computer Illustration**3 Credits (2+2P)**

Advanced techniques in 2D vector drawing and fundamentals of 3D illustration for use in print, web, and multimedia applications. May be repeated for a maximum of 6 credits. Same as OEGR 270.

Prerequisite: CMT 142.

CMT 245. Image Processing II**3 Credits (2+2P)**

Advanced techniques in editing and manipulation of raster images for digital graphics for print, multimedia and web. May be repeated for a maximum of 6 credits. Same as OEGR 260.

Prerequisite: CMT 145.

CMT 247. Production Audio**3 Credits (2+2P)**

Essential tools and techniques in: field and studio recording and mixing, environmental assessment, film set protocol, various microphones, audio documentation, wildlines, ambient audio. Restricted to: Community Colleges only.

Prerequisite(s): CMT 190 and CMT 236.

CMT 248. Music Production and Mastering**3 Credits (2+2P)**

Introduction to fundamental tools and techniques in music production and mastering. Including: microphones and microphone techniques, live and studio recording, editing, mixing, and introduction to mastering digital audio. Restricted to: Community Colleges only.

Prerequisite(s): CMT 206 and CMT 236.

CMT 249. Layer Animation and 3D Applications in Photoshop**3 Credits**

This is an advanced course in Photoshop 3D techniques and motion graphic applications pertaining to the animation of Photoshop Layers juxtaposed over time and space relationships. May be repeated up to 6 credits. Restricted to Community Colleges only.

Prerequisite(s): CMT 245.

CMT 250. Advanced Graphics for Digital Media**3 Credits (2+2P)**

Advanced techniques in design and creation of high-level 2D animations and interactive interfaces for web, multimedia, and video. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 150.

CMT 252. Game Tools and Techniques**3 Credits (2+2P)**

Focus on the different engines and gaming technologies that power the games of today. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 200.

CMT 253. History of Animation**3 Credits**

Exploration of animation as art form and industry. Material spans from the roots of animation before film technology to modern commercial and artistic animated productions. Restricted to: Community Colleges only.

CMT 254. History of Media Design**3 Credits**

An introduction to the principles of design history and theory within a chronological framework of historical and emerging media.

CMT 255. Special Topics**1-4 Credits**

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits.

CMT 256. Typography**3 Credits**

Foundation in typography with an emphasis on history of typography and the practical application and impact of font choices for print, web, animation and video. Deals with studies in font or letter construction and font choices focusing on design, application, incorporation, and visual impact. Restricted to: Community Colleges only.

Prerequisite(s): CMT 142.

CMT 258. Advanced Camera Techniques**3 Credits (2+2P)**

Professional camera techniques and training for electronic news gathering and studio filmmaking. Utilizes high-end handheld shooting techniques, cranes, dollies, and steadicam training. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 190.

CMT 260. 3D Special Effects**3 Credits (2+4P)**

Creating advanced virtual special effects for both rigid and soft bodies. Using MEL, dynamic principles, mixing nodes, and advanced particle systems. How to drive particles over surfaces, add texture to flow, create surface tensions, and use collision events to drive texture. Study of integrating computer-generated images with real-life video and audio.

Prerequisite: CMT 160 or CMT 225.

CMT 265. Personal Character Development**3 Credits (2+4P)**

Focus on the development of personal character(s), from sketch to render. Develop complete biographies of character, then build, skin and animate with as many personal attributes as possible.

Prerequisite: CMT 225.

CMT 266. Audio Postproduction**3 Credits (2+2P)**

Application of techniques for the final postproduction phase of audio track editing, mixing and mastering for film, music, and animation; including Automated Dialog Replacement (ADR) and foley. Restricted to: Community Colleges only.

Prerequisite(s): CMT 206, CMT 236, CMT 237, CMT 247 & CMT 248.

CMT 275. Advanced Web Techniques**3 Credits (2+2P)**

Creating and managing complex web sites using advanced techniques and tools. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisites: CMT 145 and CMT 230.

CMT 276. Advanced Photography Workshops**1 Credit**

This is a series of 1-credit workshops offering specialized and intense advanced skill training and upgrading applications of photography for commercial purposes and training in photographic skills and styles presented by a variety of professional lecturers. May be repeated up to 7 credits. Restricted to Community Colleges only.

Prerequisite(s): CMT 115.

CMT 285. Print Media III**3 Credits (2+2P)**

Refinement of skills needed to prepare a variety of documents for print and the service bureau. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 140 or CMT 240.

CMT 290. Advanced 3d Animation Workshop A**3 Credits (2+4P)**

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits.

Prerequisite: consent of instructor.

Corequisite: CMT 291.

CMT 291. Advanced 3d Animation Workshop B**3 Credits (2+4P)**

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits.

Prerequisite: consent of instructor.

Corequisite: CMT 290.

CMT 292. Creative Media Studio**3 Credits (2+2P)**

A studio environment where students specialize in creating film-festival quality and portfolio-ready projects under the supervision of faculty. May be repeated for a maximum of 6 credits.

Prerequisites: CMT 190 and CMT 195 or CMT 160.

CMT 294. Creative Media Studio II**3 Credits**

Second level of studio environment where students specialize in creating film-festival quality and portfolio ready projects under the supervision of faculty. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 292.

CMT 295. Professional Portfolio Design and Development**1-3 Credits**

Personalized design and creation of the student's professional portfolio including hard-copy, demo reel, and online. May be repeated for a maximum of 6 credits. Same as OEGR 280.

Prerequisite: consent of instructor.

CMT 298. Independent Study**1-3 Credits**

Individual studies directed by consenting faculty with prior approval of department head. May be repeated for a maximum of 6 credits. Same as OEGR 298.

Prerequisite: minimum GPA of 3.0 and sophomore standing.

Name: Program Manager: Karen Henry

Office Location: McClure, room 301

Phone: (505) 287-6656

Website:

Creative Media Design - Associate of Applied Science

60 credits

The Associate of Applied Science in Creative Media prepares students for entry-level work in the media industry. Skills include both above and below the line concepts including working with audio and video equipment, editing, acting, directing, and writing. Students also build skills in communications, project management and computers that are transferable to other media related jobs including education, television and gaming.

General Education Requirements

<i>Area I: Communications</i>		
ENGL 111G	Rhetoric and Composition	4
ENGL 203G	Business and Professional Communication	3
or ENGL 218G	Technical and Scientific Communication	
COMM 265G	Principles of Human Communication	3
or COMM 253G	Public Speaking	
<i>Area III: Science</i>		
Select one from the following:		4
ASTR 105G	The Planets	
ASTR 110G	Introduction to Astronomy	

BIOL 111G & 111GL	Natural History of Life and Natural History of Life Laboratory	
BIOL 110G	Contemporary Problems in Biology	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
CHEM 110G	Principles and Applications of Chemistry	
C S 171G	Introduction to Computer Science	
E S 110G	Introductory Environmental Science	
GEOG 111G	Geography of the Natural Environment	
GEOL 111G	Introductory to Geology	
PHYS 110G	The Great Ideas of Physics	
<i>Area IV: Social/Behavioral Sciences</i>		
PSY 201G or SOC 101G	Introduction to Psychology or Introductory Sociology	3
Creative Media Core Requirements		
CMT 130	Introduction to Web Design	3
CMT 135	Introduction to 3D Computer Animation	3
CMT 140	Print Media I	3
CMT 142	Computer Illustration	3
CMT 145	Image Processing I	3
CMT 150	2D Animation	3
CMT 180	Design Principles	3
CMT 190	Digital Video Production I	3
CMT 230	Web Design II	3
CMT 295	Professional Portfolio Design and Development	3
Other Course Requirements		
MATH 120	Intermediate Algebra (or any higher MATH course)	3
C S 110 or OECS 105	Computer Literacy or Introduction to Information Technology	3
Electives		
Select 7 credits from the following:		7
CMT/ CS/ OECS Electives		
COLL 101	College/Life Success	
ART Electives		
Total Credits		60

Criminal Justice

Criminal Justice - Associate Degree (p. 84)

C J 101G. Introduction to Criminal Justice

3 Credits

Examination of crime and justice within the broader social and cultural context of U.S. society from interdisciplinary social science perspectives. Includes critical analysis of criminal justice processes and the ethical, legal, and political factors affecting the exercise of discretion by criminal justice professionals.

C J 199. Special Topics in Criminal Justice I

1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated under different topics for a maximum of 6 credits.

C J 205. Criminal Law

3 Credits

Rules, principles, and doctrines of criminal liability in the United States. The historical development, limits, and functions of the substantive criminal law. May be repeated up to 3 credits.

C J 210. The American Law Enforcement System

3 Credits

Historical and philosophical foundations of law and order. An in-depth examination of the various local, state, and federal law enforcement agencies.

C J 221. Fundamentals of Criminal Investigation

3 Credits

Investigation procedures from crime scene searches, collection of evidence, and case preparation. Community Colleges only. (Note: students completing C J 221 may not take C J 321.)

C J 230. Introduction to Corrections

3 Credits

Development of correctional philosophy, theory, and practice. Instructional and non-institutional alternatives available in the corrections process.

C J 250. Courts and the Criminal Justice System

3 Credits

Structures and functions of American courts. Roles of attorneys, judges, and other court personnel; operation of petit and grand juries, trial and appellate courts.

C J 293. Field Experience in Criminal Justice

3-6 Credits

Field experience in a public criminal justice agency or equivalent private sector organization. Supervised internship experience, conferences, and observations. Restricted to majors. Community Colleges only.

Prerequisites: C J 101G, prior arrangement and consent of instructor and a GPA of 2.0 or better in major.

Name: Program Manager: Megan Stoneking

Office Location: Martinez, room 121

Phone: (505) 287-6679

Criminal Justice - Associate Degree

66 credits

See an Advisor or Program Manager for administration changes in 2016-2017 for this degree.

The Associate in Criminal Justice introduces students to three areas of the Criminal Justice system: police, courts, and corrections. This degree is interdisciplinary in nature. Studies include the humanities, law, natural, behavioral and social sciences. The curriculum seeks to balance theoretical inquiry with applied knowledge.

This Associate degree satisfies the first two years of the Distance Education Bachelor of Criminal Justice.

New Mexico Common Core

Area I: Communications

ENGL 111G	Rhetoric and Composition	4
Select one from the following:		3
ENGL 203G	Business and Professional Communication	

ENGL 218G	Technical and Scientific Communication	
ENGL 211G	Writing in the Humanities and Social Sciences	
COMM 265G	Principles of Human Communication	3
or COMM 253G	Public Speaking	

Area II: Mathematics

Select one from the following:		3
MATH 210G	Mathematics Appreciation	
MATH 121G	College Algebra	
	Higher MATH course	

Area III: Science

Select two from two departments:		8
ASTR 105G	The Planets	
or ASTR 110G	Introduction to Astronomy	
BIOL 111G	Natural History of Life	
& 111GL	and Natural History of Life Laboratory	
BIOL 101G	Human Biology	
& 101GL	and Human Biology Laboratory	
BIOL 110G	Contemporary Problems in Biology	
CHEM 110G	Principles and Applications of Chemistry	
C S 171G	Introduction to Computer Science	
E S 110G	Introductory Environmental Science	
GEOG 111G	Geography of the Natural Environment	
or GEOL 111G	Introductory to Geology	
PHYS 110G	The Great Ideas of Physics	

Area IV: Social/Behavioral Sciences

Select 6-9 credits from 2-3 departments:		6-9
ANTH G courses		
C EP 110G	Human Growth and Behavior	
ECON G courses		
GEOG G courses		
GOVT G courses		
LING 200G	Introduction to Language	
PSY 201G	Introduction to Psychology	
SOC 101G	Introductory Sociology	
SOC 201G	Contemporary Social Problems	
S WK 221G	Introduction to Social Welfare	
W S 201G	Introduction to Women s Studies	

Area V: Humanities/Fine Art

Select 6-9 credits from 2-3 departments:		6-9
ART 101G	Orientation in Art	
ENGL 115G	Perspectives on Literature	
or ENGL 220G	Introduction to Creative Writing	
HIST 101G	Roots of Modern Europe	
HIST 102G	Modern Europe	
HIST 201G	Introduction to Early American History	
HIST 202G	Introduction to Recent American History	
MUS 101G	An Introduction to Music	
MUS 201G	History of Jazz in Popular Music: A Blending of Cultures	
PHIL G course		
THTR 101G	The World of Theatre	

Criminal Justice Core Courses

C J 101G	Introduction to Criminal Justice	3
C J 205	Criminal Law	3
C J 210	The American Law Enforcement System	3
C J 230	Introduction to Corrections	3
C J 250	Courts and the Criminal Justice System	3

Related Course Requirements

Select 8 credits from NMSU College of Arts and Sciences second language requirements.

Other Course Requirements

COLL 101	College/Life Success	3
C S 110	Computer Literacy	3
or OECS 105	Introduction to Information Technology	

Electives

Select additional electives to bring total credits to a minimum of 66.

Total Credits	66
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Note: A grade of C or better is required in all Criminal Justice courses and any courses filling the Arts & Sciences Core Requirements.

Second Language Requirements

The College of Arts & Sciences requires completion of a second language through the 212 level for the Bachelor of Criminal Justice degree. See the NMSU Catalog for College of Arts and Sciences (<http://catalogs.nmsu.edu/nmsu/arts-sciences>) for additional information on how to satisfy this requirement.

Second Language Requirements:

1. Completion of a second language through the 112 level
2. Completion through the 213 level for native speakers

Drafting and Graphics Technology

Drafting and Graphics Technology - Certificate (p. 88)

DRFT 101. Introduction to Drafting and Design Technologies**1 Credit**

Professional and student organizations associated with the Drafting and Design Technologies program, degree requirements, employment skills and work habits, and university and college policies and procedures will be explored. Students will be introduced to the current learning management system and career-readiness certification. Restricted to Community Colleges only.

DRFT 105. Technical Drawing for Industry**3 Credits (2+2P)**

Technical sketching, basic CAD, and interpretation of drawings with visualization, speed and accuracy highly emphasized. Areas of focus include various trades such as machine parts, welding, heating and cooling, and general building sketches/plan interpretation.

DRFT 108. Drafting Concepts/Descriptive Geometry**2 Credits (1+2P)**

Basic manual drafting skills, sketching, terminology and visualization. Graphical solutions utilizing applied concepts of space, planar, linear and point analyses. Metric and S.I. units introduced.

DRFT 109. Computer Drafting Fundamentals**3 Credits (2+2P)**

Introduction to computer-aided drafting. Principles and fundamentals of drafting using the latest version of AutoCAD software. Crosslisted with: C E 109 and E T 109

DRFT 112. Drafting Concepts/Computer Drafting Fundamentals I**4 Credits (2+4P)**

Basic drafting skills, terminology, and visualization. Introduction to principles and fundamentals of computer-aided drafting. Same as E T 106.

Prerequisites: OECS 207, OECS 125 or consent of instructor.

DRFT 113. Drafting Concepts/Computer Drafting Fundamentals II**4 Credits (2+4P)**

Drafting for mechanical/industrial applications; machine part detailing, assemblies in orthographic, isometric, auxiliary, oblique, and sectional views. Two-dimensional AutoCAD with introduction to 3-D AutoCAD. Same as E T 216. Restricted to: Community Colleges only.

Prerequisite: DRFT 112.

DRFT 114. Introduction to Solid Modeling**3 Credits (2+2P)**

2D mechanical drafting and 3D mechanical solid modeling utilizing the latest version of AutoCAD software. Industry dimensioning and annotation standards will be emphasized. 2D multi-view working drawings, 3D solid models, and basic 3D model assemblies will be introduced. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 109.

DRFT 115. General Construction Safety**3 Credits**

Overview of general construction safety related to building, highway and road construction, and surveying field work for entry-level individuals. Students will also have the opportunity to earn a 10-hour construction industry OSHA card. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

DRFT 120. Survey Equipment Fundamentals**2 Credits**

Introduces the application and the setup to the following surveying equipment: Automatic Level, Total station, and Global Positioning Systems. Field safety knowledge is required. Restricted to Community Colleges only.

DRFT 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 161. Introduction to Construction Management**3 Credits**

Introduction to the construction industry and construction management; construction documents and contracts; project planning, scheduling and administration; construction site management; and the role of Building Information Modeling (BIM) in construction management. Pre/ Restricted to: Community Colleges only.

Corequisite(s): DRFT 151 or consent of instructor.

DRFT 164. Intermediate Mechanical Drafting/Solid Modeling**3 Credits (2+2P)**

Intermediate 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Autodesk Inventor software. The creation of 2D working drawings from 3D solid models will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), basic material properties, and industry standard fastening and manufacturing methods will be introduced.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

DRFT 165. Introduction to Building Information Modeling**3 Credits (2+2P)**

Introduction to Building Information Modeling (BIM) in the development of virtual 3D building models, construction documents, renderings and basic animations related to architectural, structural, and mechanical/electrical/plumbing building components. Utilizes the latest BIM technologies in the integration one, parametric BIM. May be repeated up to 3 credits. 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 177. 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 Autodesk VIZ and Google SketchUp software. May be repeated for a maximum of 6 credits.

Prerequisite: 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. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 109.

DRFT 181. Commercial Drafting**3 Credits (2+2P)**

Drafting principles, plan coordination, and code analysis applicable in the development of working drawings for commercial, public, and industrial building projects. Students will utilize National Cad Standards, ADA Standards, and will be introduced to modern office practice. Pre/Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

Corequisite(s): DRFT 180.

DRFT 190. Finding and Maintaining Employment**2 Credits**

Techniques in self-evaluations, resume writing, application completion, job interviewing, and job retention. Exposure to work ethics, employee attitudes, and employer expectations.

DRFT 204. Geographic Information Systems Technology**3 Credits (2+2P)**

The use of digital information for which various digitized data creation methods are captured. Users will capture, store, analyze and manage spatially referenced data in a modeled mapping procedure. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

DRFT 214. Advanced Solid Modeling**3 Credits (2+2P)**

Advanced 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Solidworks software. The creation of 2D working drawings from 3D solid models and the creation of 3D models for machining/manufacturing will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), material properties, and industry standard fastening and manufacturing methods will be further explored.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

DRFT 215. Construction Site Safety Management**3 Credits**

Construction safety, compliance, documentation, and reporting requirements for individuals with construction site safety management responsibilities. Students will have the opportunity to earn a 30-hour construction industry OSHA card. Consent of Instructor required. Restricted to Community Colleges campuses only.

DRFT 222. Surveying Fundamentals**3 Credits (2+2P)**

Elementary surveying and civil drafting theory and techniques for non engineering majors. Includes traverse plotting, site plans, mapping, cross sections, and development of plan and profile drawings. Actual basic field measurement/surveying as well as extensive manual and CAD projects will be assigned. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 109 and MATH 190G.

DRFT 230. Building Systems Drafting**3 Credits (2+2P)**

Development of working drawings for electrical, plumbing, and HVAC systems, for residential and commercial building through the applications of both 2D Drafting and 3D Building Information Modeling (BIM) techniques. Basics of project setup, National CAD Standards, ADA Standards, modern office practice, code analysis, as well as Sustainability and LEED for new construction. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 180 or DRFT 181.

DRFT 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. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 180 or DRFT 181.

DRFT 242. Roadway Development Drafting**3 Credits (2+2P)**

Advanced civil/survey technology and drafting related to roadway development. Emphasis is on relevant terminology, codes/standards, and the production of complex working drawings such as topographical/grading, drainage, master utilities, roadway P P/details/etc., according to agency standards. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 143.

DRFT 243. Land Development Drafting**3 Credits (2+2P)**

Advanced civil/survey technology and drafting related to land development. Emphasis is on relevant terminology codes/standards, and the production of complex working drawings such as subdivision plats, local utility and drainage plans, construction details roadway P P, etc., according to local development/ agency standards.

Prerequisite: DRFT 143 and DRFT 153.

DRFT 250. Principles of Detailing and Design**3 Credits (2+2P)**

Advanced practice in construction documentation in the development and coordination of working drawings & specifications. In particular, will utilize Architectural Graphic Standards, National CAD Standards, and ADA standards to develop detail drawings related to Architectural, Civil, Structural and Building Mechanical systems. Will also be introduced to basic principles, factors, and process of building design such as space planning, site analysis, and basic architectural programming. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 180 or DRFT 181.

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 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 277. Computer Rendering and Animation II**3 Credits (2+2P)**

Continuation of DRFT 276. Covers advanced modeling and animation techniques using 3-D animation software.

Prerequisite: DRFT 276.

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.

DRFT 290. Special Topics**1-4 Credits (1-4)**

Topics subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

DRFT 291. Cooperative Experience**1-6 Credits (1-6)**

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student meets with advisor weekly. Graded S/U.

Prerequisite: consent of instructor.

DRFT 295. Professional Development and Leadership DAGA**1 Credit**

Students gain experience in leadership, team building, performing community service, and membership and/or leadership in a student organization. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Name: Program Manager: Richard Gutierrez

Office Location: Martinez, Room 121

Phone: (505) 287-6645

Drafting and Graphics Technology - Certificate

30 credits

This program provides students with the education and experience needed to pursue an entry-level drafting or computer graphics position. The program includes Architectural, Civil, Mechanical and Electronics Drafting. Classes developing 3-D animated graphics used by architects, designers for simulation, lawyers for accident reconstruction, executives for presentations, and business for training videos are included.

Requirements

DRFT 109	Computer Drafting Fundamentals	3
DRFT 114	Introduction to Solid Modeling	3
OETS 118	Mathematics for Technicians	3
DRFT 135	Electronics Drafting I	3
DRFT 143	Civil Drafting Fundamentals	3
DRFT 151	Construction Principles and Print Reading	3
DRFT 176	Solid Modeling, Rendering and Animation	3
DRFT 180	Residential Drafting	3
DRFT 181	Commercial Drafting	3

DRFT 276	Computer Rendering and Animation I	3
Total Credits		30

Early Childhood Education

Early Childhood Education - Associate Degree (p. 90)

Early Childhood Education - Certificate (p. 91)

ECED 115. Child Growth, Development, and Learning

3 Credits

This basic course in the growth, development, and learning of young children, prenatal through age eight, provides students with the theoretical foundation for becoming competent early childhood professionals.

ECED 125. Health, Safety, and Nutrition

2 Credits

This course provides information related to standards and practices that promote children's physical and mental well being sound nutritional practices, and maintenance of safe learning environments.

ECED 135. Family and Community Collaboration

3 Credits

This beginning course examines the involvement of families and communities from diverse cultural and linguistic backgrounds in early childhood programs. Ways to establish collaborative relationships with families in early childhood settings is discussed.

Prerequisite(s): ECED 115 and ENGL 111G.

ECED 215. Curriculum Development Through Play

3 Credits

The beginning curriculum course places play at the center of curriculum in developmentally appropriate early childhood programs. It addresses content that is relevant for children birth through age four and developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with diverse abilities and the development of IFSP's and IEP's is included. Consent of instructor required.

Prerequisite(s): ECED 115 and ENGL 111G.

Corequisite(s): ECED 220.

ECED 220. Early Childhood Education Practicum I

2 Credits

The beginning practicum course will provide experiences that address curriculum content that is relevant for children birth through age four in developmentally and culturally sensitive ways. Consent of instructor required.

Prerequisite(s): ECED 115 and ENGL 111G.

Corequisite(s): ECED 215.

ECED 225. Curriculum Development and Implementation II

3 Credits

The second curriculum course focuses on developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Development and implementation of curriculum in all content areas, including literacy, numeracy, the arts, health and emotional wellness, science, motor and social skills, is emphasized. Information on adapting content areas to meet the needs of children with diverse abilities and the development of IEP's is included. Consent of instructor required.

Prerequisite(s): ECED 115, ENGL 111G.

Corequisite(s): ECED 230.

ECED 230. Early Childhood Education Practicum II

2 Credits

The second field-based curriculum course focuses on practicing developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Consent of instructor required.

Prerequisite(s): ECED 115, ENGL 111G,.

Corequisite(s): ECED 225.

ECED 235. Introduction to Language, Literacy and Reading

3 Credits

This course is designed to prepare early childhood professionals for promoting children's emergent literacy and reading development. Through a developmental approach, the course addresses ways in which early childhood professionals can foster young children's oral language development, phonemic awareness, and literacy problem solving skills, fluency, vocabulary, and comprehension.

Prerequisite(s): ECED 115 and ENGL 111G.

ECED 245. Professionalism

2 Credits

This course provides a broad-based orientation to the field of early care and education. Early childhood history, philosophy, ethics and advocacy are introduced. Basic principles of early childhood systems are explored. Multiple perspectives on early care and education are introduced. Professional responsibilities such as cultural responsiveness and reflective practice are examined.

ECED 255. Assessment of Children and Evaluation of Programs

3 Credits

This basic course familiarizes students with a variety of culturally appropriate assessment methods and instruments, including systematic observation of typically and non-typically developing children. Crosslisted with: SPED 255

Prerequisite(s): ECED 115 and ENGL 111G.

ECED 265. Guiding Young Children

3 Credits

This course explores various theories of child guidance and the practical applications of each. It provides developmentally appropriate methods for guiding children and effective strategies and suggestions for facilitating positive social interactions. Strategies for preventing challenging behaviors through the use of environment, routines and schedule will be presented.

ECED 270. Program Management

3 Credits

Technical knowledge necessary to develop and maintain a quality early care and education program. The course will focus on sound financial management and vision, laws and legal issues that affect programs and state and national standards including accreditation requirements.

Prerequisite: consent of instructor.

ECED 275. Curriculum for Diverse Learners and Their Families

3 Credits

Implementation of family-centered programming that includes developmentally appropriate and culturally responsive curriculum. The course will also cover the establishment and maintenance of healthy and safe learning environments. Consent of instructor required.

ECED 276. Effective Program Development for Diverse Learners and Their Families**2 Credits**

Practical experience in observing and carrying out the role of the director/administrator in the implementation of family-centered programming that includes individually appropriate and culturally responsive curriculum in a healthy and safe learning environment. Consent of instructor required. Restricted to ECED majors.

Corequisite(s): ECED 275.

ECED 280. Professional Relationships**3 Credits**

Development of staff relationships that will foster strong professional relationships with and among families, communities and advisory boards. Issues of staff recruitment, retention, support and supervision will lay a foundation for positive personnel management. Working effectively with board, advisory groups and community members and agencies will be addressed. Consent of instructor required.

Corequisite(s): ECED 281.

ECED 281. Professional Relationships Practicum**2 Credits**

Practical experience in the development of staff relationship that will foster professional relationships with families, communities and boards. Issues of staff recruitment, retention, support and supervision will lay a foundation for positive personnel management. Consent of instructor required. Restricted to ECED majors.

Corequisite(s): ECED 280.

Name: Program Manager: Kathleen O'Connor

Office Location: McClure, room 304

Phone: (505) 287-6693

Early Childhood Education - Associate Degree

66 credits

See an Advisor or Program Manager for anticipated curriculum changes in 2017-2018 for this degree.

The Early Childhood Education associate degree program is designed to prepare students to become highly qualified teachers, assistant teachers, or family day care providers in professional child-care for children ages birth through eight years. Students will gain a broad understanding of the specific needs of young children and develop strategies for meeting those needs. Students may choose to continue their education at any four-year institution in New Mexico. The NMSU Grants program includes the lower division courses required for entry into the Teacher Education Program (TEP), a baccalaureate program at New Mexico State University. Completion of this program does NOT guarantee admission into a Teacher Education Program at a four-year institution. Early in their second year of study at NMSU Grants, students should contact the four-year institution they have chosen to obtain application information.

Requirements and Limitations

1. Students in the Early Childhood Education Program are required to complete and pass a security background check in order to take practicum courses and field experiences. Past criminal violations may prevent a student from completing the degree and from being hired by school systems or other child care facilities upon graduation.

2. Students must complete all technical requirement courses as well as the following courses with a grade of C or better:

C EP 110G	Human Growth and Behavior	3
ENGL 111G	Rhetoric and Composition	4
ENGL 211G	Writing in the Humanities and Social Sciences	3
MATH 120	Intermediate Algebra	3
MATH 111	Fundamentals of Elementary Mathematics I	3
MATH 112G	Fundamentals of Elementary Math II	3

3. Students must have a 2.0 GPA to graduate from this program. However, because a 2.5 GPA is required for acceptance into the Teacher Education Program at NMSU, it is highly recommended that Grants students complete the Early Childhood Education program with a 2.5 cumulative GPA.
4. Any education course more than seven years old taken at NMSU, NMSU community colleges or other institutions will not be counted toward the student's baccalaureate program. It is highly recommended that students request a review of their cumulative coursework by the appropriate department at NMSU. The student must repeat any course not approved.
5. Completion of all requirements does not guarantee acceptance in the NMSU Teacher Education Program. Please see the NMSU College of Education Advising Center for more information.

General Education Requirements

Area I: Communications

ENGL 111G	Rhetoric and Composition	4
ENGL 211G	Writing in the Humanities and Social Sciences	3
COMM 253G	Public Speaking	3
or COMM 265G	Principles of Human Communication	

Area II: Math

MATH 112G	Fundamentals of Elementary Math II ¹	3
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Area III: Science

Select two from two departments: 8

ASTR 105G	The Planets	
or ASTR 110G	Introduction to Astronomy	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
BIOL 110G	Contemporary Problems in Biology	
BIOL 111G & 111GL	Natural History of Life and Natural History of Life Laboratory	
CHEM 110G	Principles and Applications of Chemistry	
or CHEM 111G	General Chemistry I	
E S 110G	Introductory Environmental Science	
GEOL 111G	Introductory to Geology	
or GEOG 111G	Geography of the Natural Environment	
PHYS 110G	The Great Ideas of Physics	
or PHYS 211G	General Physics I	

Area IV: Social/Behavioral Sciences

Select one from the following: 3

ANTH 201G	Introduction to Anthropology	
ECON 201G	Introduction to Economics	
ECON 251G	Principles of Macroeconomics	

ECON 252G	Principles of Microeconomics	
GEOG 112G	World Regional Geography	
or GEOG 120G	Culture and Environment	
GOVT 100G	American National Government	
or GOVT 110G	Introduction to Political Science	
SOC 101G	Introductory Sociology	
<i>Area V: Humanities/Fine Arts</i>		
Select one from the following:		3
ART 101G	Orientation in Art	
MUS 101G	An Introduction to Music	
MUS 201G	History of Jazz in Popular Music: A Blending of Cultures	
THTR 101G	The World of Theatre	
Select two from the following:		6
HIST 101G	Roots of Modern Europe	
or HIST 102G	Modern Europe	
HIST 201G	Introduction to Early American History	
or HIST 202G	Introduction to Recent American History	
Early Childhood Core		
C EP 110G	Human Growth and Behavior	3
ECED 115	Child Growth, Development, and Learning	3
ECED 125	Health, Safety, and Nutrition	2
ECED 135	Family and Community Collaboration	3
ECED 215	Curriculum Development Through Play	3
ECED 220	Early Childhood Education Practicum I	2
ECED 225	Curriculum Development and Implementation II	3
ECED 230	Early Childhood Education Practicum II	2
ECED 235	Introduction to Language, Literacy and Reading	3
ECED 245	Professionalism	2
ECED 255	Assessment of Children and Evaluation of Programs	3
ECED 265	Guiding Young Children	3
Other Course Requirements		
COLL 101	College/Life Success	1
Total Credits		66

¹ Prerequisites MATH 120 Intermediate Algebra & MATH 111 Fundamentals of Elementary Mathematics I

Transfer Requirements ¹

¹ See advisor for degree options.

Early Childhood Education - Certificate

33 credits

The requirements for the Certificate in Early Childhood Education at NMSU Grants also meet the requirements of the one-year vocational certificate awarded by the State of New Mexico, Office of Child Development.

Requirements and Limitations

- Students in the Early Childhood Program are required to complete and pass a security background check in order to take practicum courses and field experiences. Past criminal violations may prevent a student from completing the degree and from being hired by school systems or other childcare facilities upon graduation.
- Students must complete ENGL 111G Rhetoric and Composition with a C or better.
- Students must have a 2.0 GPA to apply for this certificate. However, because a 2.5 GPA is required for acceptance into the Teacher Education Program at NMSU, it is highly recommended that Grants students complete the Early Childhood Education program with a 2.5 cumulative GPA.
- Any education course more than seven years old taken at NMSU, NMSU community colleges or other institutions will not be counted toward the student's baccalaureate program. It is highly recommended that students request a review of their cumulative coursework by the appropriate department at NMSU. The student must repeat any course not approved.

Completion of all requirements does not guarantee acceptance in the NMSU Teacher Education Program. Please see the NMSU College of Education Advising Center for more information.

General Education Requirement

ENGL 111G	Rhetoric and Composition	4
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Early Childhood Requirements

ECED 115	Child Growth, Development, and Learning	3
ECED 125	Health, Safety, and Nutrition	2
ECED 135	Family and Community Collaboration	3
ECED 215	Curriculum Development Through Play	3
ECED 220	Early Childhood Education Practicum I	2
ECED 225	Curriculum Development and Implementation II	3
ECED 230	Early Childhood Education Practicum II	2
ECED 235	Introduction to Language, Literacy and Reading	3
ECED 245	Professionalism	2
ECED 255	Assessment of Children and Evaluation of Programs	3
ECED 265	Guiding Young Children	3

Total Credits 33

Education

Education - Associate Degree (p. 92)

EDUC 101. FRESHMAN ORIENTATION

1 Credit

Introduction to the university and to the College of Education. Discussion of planning for individualized education program and field experience. Restricted to Las Cruces campus only.

EDUC 102. Internship I

3 Credits

Supervised experience in elementary education settings.

EDUC 103. Internship in Bilingual Education/ESL**1-4 Credits**

Supervised experience in bilingual education/ESL elementary or secondary classroom settings for prospective bilingual education/ESL teachers.

EDUC 150. Math for Paraprofessionals**3 Credits**

Applied math skills for paraprofessionals working with children.

Prerequisite: CCDM 103.

EDUC 151. Math for Paraprofessionals II**3 Credits**

Applied math skills for paraprofessionals working under the direction of a teacher.

Prerequisite: EDUC 150.

EDUC 181. Field Experience I**1 Credit**

Introduction to public school teaching, school visits, classroom observations and discussion seminar.

EDUC 195. Individual Topics in Education**1-3 Credits**

Supervised study in a specific area of interest. Each course shall be designated by a qualifying subtitle. May be repeated for a maximum of 9 credits.

EDUC 202. Internship II**3 Credits**

Supervised experience in junior high settings.

Prerequisite: must be a co-op student.

EDUC 204. Foundations of Bilingual/ESL Education**3 Credits**

Explore and review the historical, legal, philosophical, theoretical and pedagogical paradigms of bilingual/ESL education.

EDUC 219. Pre-Teacher Preparation**3 Credits**

Assists students in developing the necessary competencies needed for acceptance to the Teacher Education Program. Course content includes basic skill development, test taking skills, and completion of teacher preparation packet. Maybe repeated for a maximum of 6 credits. Graded S/U. Community Colleges only.

EDUC 250. Introduction to Education**2 Credits**

An overview of the American education system with emphasis on organization, governance, law, demographics, and professional practice. Restricted to Las Cruces campus only.

EDUC 281. Introduction to Secondary Education and Youth**3 Credits**

Introductory course for students considering a career in secondary education. Includes historical, philosophical, and sociological foundations, program organization, critical dispositions, and understanding the context of schools and youth. Practicum required. Restricted to: Secondary Ed majors. Traditional Grading with RR.

Name: Program Manager: Kathleen O'Connor

Office Location: McClure, room 304

Phone: (505) 287-6693

Education - Associate Degree

66 credits

See an Advisor or Program Manager for anticipated curriculum changes in 2017-2018 for this degree.

The Education associate degree program at NMSU Grants is designed to prepare students for transfer into the Teacher Education Program (TEP), a baccalaureate program at New Mexico State University. Alternatively, students may opt to transfer to a similar program at another four-year institution. The NMSU Grants program includes the lower division courses required for entry into the TEP. Completion of this program does NOT guarantee admission into a Teacher Education Program at a four-year institution. Early in their second year of study at NMSU Grants students should contact the four-year institution they have chosen to obtain application information.

NOTE: It is recommended that students check the requirements for their planned bachelor's degree. Requirements may differ for some bachelor's degrees. See education advisor for course selection information.

Requirements and Limitations

- Students in the Education Program are required to complete and pass a security background check in order to take field-experience courses. Past criminal violations may prevent a student from completing the degree and from being hired by school systems or other childcare facilities upon graduation.
- Students must complete all Technical Requirement courses as well as the following courses with a C or better:

ENGL 111G	Rhetoric and Composition	4
ENGL 211G	Writing in the Humanities and Social Sciences	3
MATH 111	Fundamentals of Elementary Mathematics I	3
MATH 112G	Fundamentals of Elementary Math II	3
MATH 120	Intermediate Algebra	3
- Students must have a 2.0 GPA to graduate from this program. However, a 2.5 GPA is required for acceptance into the Teacher Education Program at NMSU. For this reason, it is highly recommended that NMSU Grants students complete the Education Program with a 2.5 cumulative GPA.
- Any education course more than seven years old taken at NMSU, NMSU community colleges, or other institutions will not be counted toward the student's baccalaureate program. It is highly recommended that students request a review of their cumulative coursework by the appropriate department at NMSU. The student must repeat any course not approved.

General Education Requirements

Area I: Communications		
ENGL 111G	Rhetoric and Composition	4
ENGL 211G	Writing in the Humanities and Social Sciences	3
COMM 253G	Public Speaking	3
	or COMM 265G Principles of Human Communication	
Area II: Math		
MATH 111	Fundamentals of Elementary Mathematics I ¹	3
MATH 112G	Fundamentals of Elementary Math II ²	3

Area III: Science

Select three from three departments: 12

ASTR 105G The Planets
or ASTR 110G Introduction to Astronomy

BIOL 101G Human Biology
& 101GL and Human Biology Laboratory

BIOL 110G Contemporary Problems in Biology

BIOL 111G Natural History of Life
& 111GL and Natural History of Life Laboratory

CHEM 110G Principles and Applications of Chemistry
or CHEM 111G General Chemistry I

E S 110G Introductory Environmental Science

GEOL 111G Introductory to Geology
or GEOG 111G Geography of the Natural Environment

PHYS 110G The Great Ideas of Physics
or PHYS 211G General Physics I

Area IV: Social/Behavioral Sciences

Select two from two different areas: 6

GOVT 100G American National Government
or GOVT 110G Introduction to Political Science

GEOG 112G World Regional Geography
or GEOG 120G Culture and Environment

ECON 201G Introduction to Economics
or ECON 251G Principles of Macroeconomics
or ECON 252G Principles of Microeconomics

ANTH 201G Introduction to Anthropology

SOC 101G Introductory Sociology

Area V: Humanities/Fine Arts

Select three from the following: 9

HIST 101G Roots of Modern Europe
or HIST 102G Modern Europe

HIST 201G Introduction to Early American History
or HIST 202G Introduction to Recent American History

HIST elective

Select two from the following: 6

ART 101G Orientation in Art

MUS 101G An Introduction to Music

MUS 201G History of Jazz in Popular Music: A
Blending of Cultures

THTR 101G The World of Theatre

ART elective

MUSIC elective

Theater elective

Professional Education Core

Select 11 credits from the following: 11

EDUC 103 Internship in Bilingual Education/ESL

EDUC 181 Field Experience I

EDUC 101 FRESHMAN ORIENTATION

EDUC 250 Introduction to Education

C EP 110G Human Growth and Behavior

C EP 210 Educational Psychology

Other Course Requirements

COLL 101 College/Life Success 3

C S 110 Computer Literacy 3

or OECS 105 Introduction to Information Technology

Total Credits 66

¹ Prerequisite: MATH 120 Intermediate Algebra.² Prerequisite: MATH 111 Fundamentals of Elementary Mathematics I.**Recommended Transfer Options**

HIST 261 New Mexico History 3

LING 200G Introduction to Language 3

Electronic Publishing

Electronic Publishing - Associate of Applied Science (p. 97)

CMT 100. Introduction to Visual Communications**3 Credits**

Overview of the process of crafting a digital product from conception to final. Incorporates basic principles of art and design, typography, layout, color and imagery, logos and advertising basics. Same as OEGR 105.

CMT 108. Introduction to Media Technologies**1-3 Credits (1-3)**

Introduction to various media technologies. Restricted to: Community Colleges only. Cross-listed: OEGR 108

CMT 110. Introduction to Web Design**1 Credit**

Basics of creating simple web sites for personal use.

CMT 115. Digital Photography and Imaging I**3 Credits (2+2P)**

Principles and techniques of photography using digital equipment with an emphasis on lighting, focus, and composition.

CMT 120. Introduction to Creative Media**3 Credits (2+2P)**

Exploration and discovery of the creative processes through art, music, theater, narrative, and other avenues.

CMT 126. Film Crew Training I**9 Credits**

This course was designed in collaboration with the NM IATSE Local 480 union and the NM Film Office and focuses on providing hands-on training for students wishing to work on film crews. The course will offer an overview of the primary below-the-line craft areas of film production. Restricted to: Community Colleges only.

CMT 130. Introduction to Web Design**3 Credits (2+2P)**

Introduction to web development techniques, theory, and design. Incorporates HTML and industry-standard web editing software in developing various web sites. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ART 161 OR CMT 145.

CMT 135. Introduction to 3D Computer Animation**3 Credits (2+4P)**

Learning to work in a 3D environment. Introduction to the basics of modeling, animation, dynamics, and rendering. Working with polygons, NURBS and subdivisions, and editing in multiple interfaces. May be repeated for a maximum of 6 credits.

CMT 140. Print Media I**3 Credits (2+2P)**

Creation and design of publications and presentation materials using page layout software. May be repeated for a maximum of 6 credits.

CMT 142. Computer Illustration**3 Credits (2+2P)**

Preparation of digital graphics with a vector or draw program for use in print, web, video, animations, and multimedia. May be repeated for a maximum of 6 credits.

CMT 145. Image Processing I**3 Credits (2+2P)**

Design and creation of digital graphics using a raster or bitmap program for use in print, multimedia, video, animation and web. May be repeated for a maximum of 6 credits.

CMT 150. 2D Animation**3 Credits (2+2P)**

Concepts and techniques in storyboarding and creating interactive 2D animations for web, multimedia and video.

Prerequisites: CMT 142 or CMT 146.

CMT 151. Evolution of Electronic Games**3 Credits (2+2P)**

Focus on the evolution of video games and how they have shaped mainstream entertainment. May be repeated up to 6 credits.

CMT 155. Selected Topics**1-4 Credits**

Specific titles to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits. Same as OEGR 155.

CMT 156. Film Crew Training II**9 Credits**

The purpose of this course is to provide applied training in a specific film production crew craft area, in which a student has decided to specialize. The various craft areas include but are not limited to, Art Dept., Grip., Electric, Sound, Production Office, Script Supervision, Props, Set Dressing, Locations, Special Effects, Hair/Makeup, Wardrobe, Production Assistant/Set Operations. Restricted to: Community Colleges only.

Prerequisite(s): CMT 126.

CMT 160. Modeling and Animation**3 Credits (2+2P)**

Building on student's knowledge of 2D animation, covers modeling, animating objects and scenes in a 3D environment using various camera and lighting effects. May be repeated for a maximum of 6 credits.

Restricted to: Community Colleges only.

CMT 165. Writing and Storyboarding**3 Credits (2+2P)**

Learning good writing principles to create storyboards and scripts that communicate the overall picture of the project, timing, scene complexity, emotion, and resource requirements.

Prerequisite: CMT 135 or CMT 160.

CMT 170. History of Film: A Global Perspective**3 Credits**

Explores the history of cinema from the earliest 19th century developments to the present digital video revolution. Offers students a broader base of understanding of the tools and methodologies used in the craft.

CMT 175. 3-D Character Design**3 Credits (2+4P)**

Focus on designing a character and then taking that design and building it in 3D using intermediate modeling techniques. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 135 or CMT 160.

CMT 180. Design Principles**3 Credits (2+2P)**

Techniques and theories of design principles, including layout foundations, logo building, type, color, and story-boarding and their application to print, web, animation and video. Restricted to: Community Colleges only.

Prerequisite(s): CMT 142 or CMT 146.

CMT 182. Environmental Modeling, Shading and Lighting**3 Credits (2+4P)**

Modeling design techniques to create natural and architectural environments to be used for animated films and gaming. Study of various lighting techniques, shading and shadowing.

Prerequisite: CMT 135 or CMT 160.

CMT 185. 3D Shading and Lighting Techniques**3 Credits (2+4P)**

Study of various global, scene and character lighting techniques, shading and shadowing, and creating atmospheres and reflections that bring computer generated 3D scenes to life. Examines environmental and studio lighting to bring real life experience into the digital production process.

Prerequisite: CMT 135 or CMT 160.

CMT 190. Digital Video Production I**3 Credits (2+4P)**

A hands-on study of the tools and techniques used to produce the independent video. Through the production of various short projects, the student explores how the ideas of the writer/director are translated into a visual story. May be repeated for a maximum of 6 credits.

CMT 192. Acting for the Camera**3 Credits (2+2P)**

Covers acting techniques, body movement, monologues and auditioning. Students will gain professional acting experience on camera as well as learn what is expected on a film or video set. Restricted to: Community College only.

CMT 195. Digital Video Editing I**3 Credits (2+2P)**

A study of the basic tools and techniques of non-linear digital video editing. May be repeated for a maximum of 6 credits.

CMT 200. Critical Game Studies**3 Credits (2+2P)**

Focus on creating a complete design document utilizing techniques and standards used in the industry today. May be repeated for up to 6 credits. Restricted to: Community Colleges only.

CMT 205. Cinematography**3 Credits (2+2P)**

Theory and techniques of visual design in cinematography and the aesthetics of lighting. May be repeated for a maximum of 6 credits. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 190.

CMT 206. Principles of Sound**3 Credits (2+2P)**

Study of soundtrack design theory, and the use of audio editing software that is compatible with media editing software to create soundtracks for different visual media. Pre/ Restricted to: Community Colleges only.

Corequisite(s): CMT 195.

CMT 210. Digital Video Production II**3 Credits (2+2P)**

Advanced techniques of the tools and application of professional film making. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 190.

CMT 215. Digital Video Editing II**3 Credits (2+2P)**

Advanced features of digital video, audio/music, and titling production software. Included are color correction, vector scopes, motion effects, and advanced editing techniques used by filmmakers. May be repeated for a maximum of 6 credits. Same as OEGR 215.

Prerequisite: CMT 195 or OEGR 210.

CMT 216. Digital Photography and Imaging II**3 Credits (2+2P)**

Provide understanding and skills needed for advanced digital capture, editing, optimizing and manipulating photographic images for print, web and multimedia applications. The course will prepare students to make more advanced technical and more refined aesthetic decisions relative to specific photographic applications. Restricted to: Alamogordo campus, Carlsbad campus, Dona Ana campus.

Prerequisite(s): CMT 115.

CMT 217. Layer Animation & 3D Applications in Photoshop**1 Credit**

This is an advanced course in Photoshop 2D techniques and motion graphic applications pertaining to the animation of Photoshop Layers juxtaposed over time and space relationships. Restricted to: CMT majors. Restricted to Community Colleges only.

Prerequisite(s): CMT 145.

CMT 218. Video for Social Interaction and Informal Commerce**3 Credits**

The use of DSLR video has opened the way for photographers to be able to add video as a component of expression. This course shows the ways that this tool can be used for on-line instructional videos, demonstrations and presentations. As more and more commercial entities become involved in YouTube and other social media, this becomes a vocationally viable form of visual communication. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: Community Colleges only.

CMT 220. Environmental Scene Design**3 Credits (2+4P)**

Modeling design techniques used to create environments and scenes for use in animated films and games. Investigation of both natural and architectural environments to be recreated in the virtual world.

Prerequisite: CMT 135 or CMT 160.

CMT 221. Internship**1-3 Credits**

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 9 credits. Consent of Instructor required. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

CMT 222. Pre-production Management**3 Credits (2+2P)**

Pre-production planning paperwork breakdowns, budgeting, and scheduling; taking a project from start to finish from a producers standpoint.

Prerequisite: CMT 190.

CMT 223. Media Production Services**1-3 Credits**

A design studio environment in which students obtain real-world experience while providing service to college and non-profit associations with faculty supervision using a variety of media. Can be used with permission to fulfill cooperative requirement. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 180 or ART 163.

CMT 224. Environmental Scene Design II**3 Credits**

Second level of 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. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 220.

CMT 225. Anatomical Character Design**3 Credits (2+4P)**

Focus on building anatomy-based 3D characters. Advanced study in NURBS, subdivisions, and polygon modeling techniques used to create fully functional and realist models. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 175.

CMT 226. Film Crew Cooperative Experience**3-6 Credits (3-6)**

Industry production experience in specific craft areas for film crew technicians who have successfully completed two semesters of FTTP. Restricted to: Dona Ana campus, Carlsbad campus.

Prerequisite(s): CMT 156.

CMT 227. Advanced Character Animation**3 Credits (2+2P)**

Focus on complex rigging techniques as well as utilizing advanced animation functions to blend multiple animations into complex animations. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): CMT 160.

CMT 228. Level Design Concepts**3 Credits (2+2P)**

Focus on the design and creation of video game levels. Dealing with the challenges and pitfalls of different video game genres. May be repeated for a maximum of 6 credits. Prerequisite: CMT 200

CMT 229. 3D Digital Sculpting**3 Credits**

Introduce students to the 3D Sculpting programs which are the industry standard sculpting programs. Students will learn how to create complex high polygon sculpts and normal maps and transfer the models into 3D studio Max and Autodesk Maya. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): CMT 160.

CMT 230. Web Design II**3 Credits (2+2P)**

Creating and managing well-designed, organized web sites using HTML and web development software. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only. Cross-listed: OEGR 230
Prerequisite(s): CMT 130.

CMT 235. Web Design for Small Businesses**3 Credits (2+2P)**

Technology and techniques for designing and building a web presence for small business. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only. Cross-listed: OEGR 235
Prerequisite(s): CMT 130.

CMT 236. Digital Audio Fundamentals**3 Credits (2+2P)**

Advanced digital audio post production and recording techniques using current entertainment industry-standard software and hardware. Restricted to: Community Colleges only.

CMT 237. Digital Audio Editing**3 Credits (2+2P)**

Techniques in digital audio composing, recording, editing, processing, MIDI & virtual instruments. Additional course topics include signal routing and processing, digital console design, audio signal paths, digital plug-ins, audio file management. Restricted to: Community Colleges only.
Prerequisite(s): CMT 236.

CMT 240. Print Media II**3 Credits (2+2P)**

Refining of technical design skills using advanced features of page layout software in preparing a variety of business-related documents. May be repeated for a maximum of 6 credits.
Prerequisite: CMT 140 or OEGR 140.

CMT 242. Advanced Computer Illustration**3 Credits (2+2P)**

Advanced techniques in 2D vector drawing and fundamentals of 3D illustration for use in print, web, and multimedia applications. May be repeated for a maximum of 6 credits. Same as OEGR 270.
Prerequisite: CMT 142.

CMT 245. Image Processing II**3 Credits (2+2P)**

Advanced techniques in editing and manipulation of raster images for digital graphics for print, multimedia and web. May be repeated for a maximum of 6 credits. Same as OEGR 260.
Prerequisite: CMT 145.

CMT 247. Production Audio**3 Credits (2+2P)**

Essential tools and techniques in: field and studio recording and mixing, environmental assessment, film set protocol, various microphones, audio documentation, wildlines, ambient audio. Restricted to: Community Colleges only.
Prerequisite(s): CMT 190 and CMT 236.

CMT 248. Music Production and Mastering**3 Credits (2+2P)**

Introduction to fundamental tools and techniques in music production and mastering. Including: microphones and microphone techniques, live and studio recording, editing, mixing, and introduction to mastering digital audio. Restricted to: Community Colleges only.
Prerequisite(s): CMT 206 and CMT 236.

CMT 249. Layer Animation and 3D Applications in Photoshop**3 Credits**

This is an advanced course in Photoshop 3D techniques and motion graphic applications pertaining to the animation of Photoshop Layers juxtaposed over time and space relationships. May be repeated up to 6 credits. Restricted to Community Colleges only.
Prerequisite(s): CMT 245.

CMT 250. Advanced Graphics for Digital Media**3 Credits (2+2P)**

Advanced techniques in design and creation of high-level 2D animations and interactive interfaces for web, multimedia, and video. May be repeated for a maximum of 6 credits.
Prerequisite: CMT 150.

CMT 252. Game Tools and Techniques**3 Credits (2+2P)**

Focus on the different engines and gaming technologies that power the games of today. May be repeated for a maximum of 6 credits.
Prerequisite: CMT 200.

CMT 253. History of Animation**3 Credits**

Exploration of animation as art form and industry. Material spans from the roots of animation before film technology to modern commercial and artistic animated productions. Restricted to: Community Colleges only.

CMT 254. History of Media Design**3 Credits**

An introduction to the principles of design history and theory within a chronological framework of historical and emerging media.

CMT 255. Special Topics**1-4 Credits**

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits.

CMT 256. Typography**3 Credits**

Foundation in typography with an emphasis on history of typography and the practical application and impact of font choices for print, web, animation and video. Deals with studies in font or letter construction and font choices focusing on design, application, incorporation, and visual impact. Restricted to: Community Colleges only.
Prerequisite(s): CMT 142.

CMT 258. Advanced Camera Techniques**3 Credits (2+2P)**

Professional camera techniques and training for electronic news gathering and studio filmmaking. Utilizes high-end handheld shooting techniques, cranes, dollies, and steadicam training. May be repeated for a maximum of 6 credits.
Prerequisite: CMT 190.

CMT 260. 3D Special Effects**3 Credits (2+4P)**

Creating advanced virtual special effects for both rigid and soft bodies. Using MEL, dynamic principles, mixing nodes, and advanced particle systems. How to drive particles over surfaces, add texture to flow, create surface tensions, and use collision events to drive texture. Study of integrating computer-generated images with real-life video and audio.
Prerequisite: CMT 160 or CMT 225.

CMT 265. Personal Character Development**3 Credits (2+4P)**

Focus on the development of personal character(s), from sketch to render. Develop complete biographies of character, then build, skin and animate with as many personal attributes as possible.

Prerequisite: CMT 225.

CMT 266. Audio Postproduction**3 Credits (2+2P)**

Application of techniques for the final postproduction phase of audio track editing, mixing and mastering for film, music, and animation; including Automated Dialog Replacement (ADR) and foley. Restricted to: Community Colleges only.

Prerequisite(s): CMT 206, CMT 236, CMT 237, CMT 247 & CMT 248.

CMT 275. Advanced Web Techniques**3 Credits (2+2P)**

Creating and managing complex web sites using advanced techniques and tools. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisites: CMT 145 and CMT 230.

CMT 276. Advanced Photography Workshops**1 Credit**

This is a series of 1-credit workshops offering specialized and intense advanced skill training and upgrading applications of photography for commercial purposes and training in photographic skills and styles presented by a variety of professional lecturers. May be repeated up to 7 credits. Restricted to Community Colleges only.

Prerequisite(s): CMT 115.

CMT 285. Print Media III**3 Credits (2+2P)**

Refinement of skills needed to prepare a variety of documents for print and the service bureau. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 140 or CMT 240.

CMT 290. Advanced 3d Animation Workshop A**3 Credits (2+4P)**

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits.

Prerequisite: consent of instructor.

Corequisite: CMT 291.

CMT 291. Advanced 3d Animation Workshop B**3 Credits (2+4P)**

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits.

Prerequisite: consent of instructor.

Corequisite: CMT 290.

CMT 292. Creative Media Studio**3 Credits (2+2P)**

A studio environment where students specialize in creating film-festival quality and portfolio-ready projects under the supervision of faculty. May be repeated for a maximum of 6 credits.

Prerequisites: CMT 190 and CMT 195 or CMT 160.

CMT 294. Creative Media Studio II**3 Credits**

Second level of studio environment where students specialize in creating film-festival quality and portfolio ready projects under the supervision of faculty. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 292.

CMT 295. Professional Portfolio Design and Development**1-3 Credits**

Personalized design and creation of the student's professional portfolio including hard-copy, demo reel, and online. May be repeated for a maximum of 6 credits. Same as OEGR 280.

Prerequisite: consent of instructor.

CMT 298. Independent Study**1-3 Credits**

Individual studies directed by consenting faculty with prior approval of department head. May be repeated for a maximum of 6 credits. Same as OEGR 298.

Prerequisite: minimum GPA of 3.0 and sophomore standing.

Name: Program Manager: Karen Henry

Office Location: McClure, room 301

Phone: (505) 287-6656

Electronic Publishing - Associate of Applied Science

60 credits

The Associate of Applied Science in Electronic Publishing will prepare students for positions in advertising and marketing areas. Students will have a working knowledge of design principles for print media, illustrations and images used in marketing products.

General Education Requirements

<i>Area I: Communications</i>		
ENGL 111G	Rhetoric and Composition	4
ENGL 203G	Business and Professional Communication	3
or ENGL 218G	Technical and Scientific Communication	
COMM 253G	Public Speaking	3
or COMM 265G	Principles of Human Communication	
<i>Area III: Science</i>		
Select one from the following:		4
ASTR 105G	The Planets	
ASTR 110G	Introduction to Astronomy	
BIOL 111G & 111GL	Natural History of Life and Natural History of Life Laboratory	
BIOL 110G	Contemporary Problems in Biology	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
CHEM 110G	Principles and Applications of Chemistry	
C S 171G	Introduction to Computer Science	
E S 110G	Introductory Environmental Science	
GEOG 111G	Geography of the Natural Environment	
GEOL 111G	Introductory to Geology	
PHYS 110G	The Great Ideas of Physics	

Area IV: Social/Behavioral Sciences

PSY 201G	Introduction to Psychology	3
or SOC 101G	Introductory Sociology	

Creative Media Core Requirements

CMT 140	Print Media I	3
CMT 142	Computer Illustration	3
CMT 145	Image Processing I	3
CMT 180	Design Principles	3
CMT 221	Internship	3
CMT 223	Media Production Services	3
CMT 240	Print Media II	3
CMT 295	Professional Portfolio Design and Development	3

Other Course Requirements

MATH 120	Intermediate Algebra (or any higher MATH course)	3
COLL 101	College/Life Success	3
C S 110	Computer Literacy	3
or OECS 105	Introduction to Information Technology	

Electives

ART elective		3
CMT/CS/OECS electives		7
Total Credits		60

Game Design

Game Design - Certificate (p. 102)

CMT 100. Introduction to Visual Communications**3 Credits**

Overview of the process of crafting a digital product from conception to final. Incorporates basic principles of art and design, typography, layout, color and imagery, logos and advertising basics. Same as OEGR 105.

CMT 108. Introduction to Media Technologies**1-3 Credits (1-3)**

Introduction to various media technologies. Restricted to: Community Colleges only. Cross-listed: OEGR 108

CMT 110. Introduction to Web Design**1 Credit**

Basics of creating simple web sites for personal use.

CMT 115. Digital Photography and Imaging I**3 Credits (2+2P)**

Principles and techniques of photography using digital equipment with an emphasis on lighting, focus, and composition.

CMT 120. Introduction to Creative Media**3 Credits (2+2P)**

Exploration and discovery of the creative processes through art, music, theater, narrative, and other avenues.

CMT 126. Film Crew Training I**9 Credits**

This course was designed in collaboration with the NM IATSE Local 480 union and the NM Film Office and focuses on providing hands-on training for students wishing to work on film crews. The course will offer an overview of the primary below-the-line craft areas of film production. Restricted to: Community Colleges only.

CMT 130. Introduction to Web Design**3 Credits (2+2P)**

Introduction to web development techniques, theory, and design. Incorporates HTML and industry-standard web editing software in developing various web sites. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ART 161 OR CMT 145.

CMT 135. Introduction to 3D Computer Animation**3 Credits (2+4P)**

Learning to work in a 3D environment. Introduction to the basics of modeling, animation, dynamics, and rendering. Working with polygons, NURBS and subdivisions, and editing in multiple interfaces. May be repeated for a maximum of 6 credits.

CMT 140. Print Media I**3 Credits (2+2P)**

Creation and design of publications and presentation materials using page layout software. May be repeated for a maximum of 6 credits.

CMT 142. Computer Illustration**3 Credits (2+2P)**

Preparation of digital graphics with a vector or draw program for use in print, web, video, animations, and multimedia. May be repeated for a maximum of 6 credits.

CMT 145. Image Processing I**3 Credits (2+2P)**

Design and creation of digital graphics using a raster or bitmap program for use in print, multimedia, video, animation and web. May be repeated for a maximum of 6 credits.

CMT 150. 2D Animation**3 Credits (2+2P)**

Concepts and techniques in storyboarding and creating interactive 2D animations for web, multimedia and video.

Prerequisites: CMT 142 or CMT 146.

CMT 151. Evolution of Electronic Games**3 Credits (2+2P)**

Focus on the evolution of video games and how they have shaped mainstream entertainment. May be repeated up to 6 credits.

CMT 155. Selected Topics**1-4 Credits**

Specific titles to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits. Same as OEGR 155.

CMT 156. Film Crew Training II**9 Credits**

The purpose of this course is to provide applied training in a specific film production crew craft area, in which a student has decided to specialize. The various craft areas include but are not limited to, Art Dept., Grip., Electric, Sound, Production Office, Script Supervision, Props, Set Dressing, Locations, Special Effects, Hair/Makeup, Wardrobe, Production Assistant/Set Operations. Restricted to: Community Colleges only.

Prerequisite(s): CMT 126.

CMT 160. Modeling and Animation**3 Credits (2+2P)**

Building on student's knowledge of 2D animation, covers modeling, animating objects and scenes in a 3D environment using various camera and lighting effects. May be repeated for a maximum of 6 credits.

Restricted to: Community Colleges only.

CMT 165. Writing and Storyboarding**3 Credits (2+2P)**

Learning good writing principles to create storyboards and scripts that communicate the overall picture of the project, timing, scene complexity, emotion, and resource requirements.

Prerequisite: CMT 135 or CMT 160.

CMT 170. History of Film: A Global Perspective**3 Credits**

Explores the history of cinema from the earliest 19th century developments to the present digital video revolution. Offers students a broader base of understanding of the tools and methodologies used in the craft.

CMT 175. 3-D Character Design**3 Credits (2+4P)**

Focus on designing a character and then taking that design and building it in 3D using intermediate modeling techniques. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 135 or CMT 160.

CMT 180. Design Principles**3 Credits (2+2P)**

Techniques and theories of design principles, including layout foundations, logo building, type, color, and story-boarding and their application to print, web, animation and video. Restricted to: Community Colleges only.

Prerequisite(s): CMT 142 or CMT 146.

CMT 182. Environmental Modeling, Shading and Lighting**3 Credits (2+4P)**

Modeling design techniques to create natural and architectural environments to be used for animated films and gaming. Study of various lighting techniques, shading and shadowing.

Prerequisite: CMT 135 or CMT 160.

CMT 185. 3D Shading and Lighting Techniques**3 Credits (2+4P)**

Study of various global, scene and character lighting techniques, shading and shadowing, and creating atmospheres and reflections that bring computer generated 3D scenes to life. Examines environmental and studio lighting to bring real life experience into the digital production process.

Prerequisite: CMT 135 or CMT 160.

CMT 190. Digital Video Production I**3 Credits (2+4P)**

A hands-on study of the tools and techniques used to produce the independent video. Through the production of various short projects, the student explores how the ideas of the writer/director are translated into a visual story. May be repeated for a maximum of 6 credits.

CMT 192. Acting for the Camera**3 Credits (2+2P)**

Covers acting techniques, body movement, monologues and auditioning. Students will gain professional acting experience on camera as well as learn what is expected on a film or video set. Restricted to: Community College only.

CMT 195. Digital Video Editing I**3 Credits (2+2P)**

A study of the basic tools and techniques of non-linear digital video editing. May be repeated for a maximum of 6 credits.

CMT 200. Critical Game Studies**3 Credits (2+2P)**

Focus on creating a complete design document utilizing techniques and standards used in the industry today. May be repeated for up to 6 credits. Restricted to: Community Colleges only.

CMT 205. Cinematography**3 Credits (2+2P)**

Theory and techniques of visual design in cinematography and the aesthetics of lighting. May be repeated for a maximum of 6 credits. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 190.

CMT 206. Principles of Sound**3 Credits (2+2P)**

Study of soundtrack design theory, and the use of audio editing software that is compatible with media editing software to create soundtracks for different visual media. Pre/ Restricted to: Community Colleges only.

Corequisite(s): CMT 195.

CMT 210. Digital Video Production II**3 Credits (2+2P)**

Advanced techniques of the tools and application of professional film making. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 190.

CMT 215. Digital Video Editing II**3 Credits (2+2P)**

Advanced features of digital video, audio/music, and titling production software. Included are color correction, vector scopes, motion effects, and advanced editing techniques used by filmmakers. May be repeated for a maximum of 6 credits. Same as OEGR 215.

Prerequisite: CMT 195 or OEGR 210.

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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.

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Prerequisite(s): Consent of instructor.

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Pre-production planning paperwork breakdowns, budgeting, and scheduling; taking a project from start to finish from a producers standpoint.

Prerequisite: CMT 190.

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A design studio environment in which students obtain real-world experience while providing service to college and non-profit associations with faculty supervision using a variety of media. Can be used with permission to fulfill cooperative requirement. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 180 or ART 163.

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Prerequisite: CMT 175.

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Prerequisite(s): CMT 160.

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Introduce students to the 3D Sculpting programs which are the industry standard sculpting programs. Students will learn how to create complex high polygon sculpts and normal maps and transfer the models into 3D studio Max and Autodesk Maya. May be repeated up to 6 credits.

Restricted to: Community Colleges only.

Prerequisite(s): CMT 160.

CMT 230. Web Design II**3 Credits (2+2P)**

Creating and managing well-designed, organized web sites using HTML and web development software. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only. Cross-listed: OEGR 230

Prerequisite(s): CMT 130.

CMT 235. Web Design for Small Businesses**3 Credits (2+2P)**

Technology and techniques for designing and building a web presence for small business. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only. Cross-listed: OEGR 235

Prerequisite(s): CMT 130.

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Advanced digital audio post production and recording techniques using current entertainment industry-standard software and hardware. Restricted to: Community Colleges only.

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Advanced techniques in 2D vector drawing and fundamentals of 3D illustration for use in print, web, and multimedia applications. May be repeated for a maximum of 6 credits. Same as OEGR 270.

Prerequisite: CMT 142.

CMT 245. Image Processing II**3 Credits (2+2P)**

Advanced techniques in editing and manipulation of raster images for digital graphics for print, multimedia and web. May be repeated for a maximum of 6 credits. Same as OEGR 260.

Prerequisite: CMT 145.

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Essential tools and techniques in: field and studio recording and mixing, environmental assessment, film set protocol, various microphones, audio documentation, wildlines, ambient audio. Restricted to: Community Colleges only.

Prerequisite(s): CMT 190 and CMT 236.

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Focus on the different engines and gaming technologies that power the games of today. May be repeated for a maximum of 6 credits.

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Creating advanced virtual special effects for both rigid and soft bodies. Using MEL, dynamic principles, mixing nodes, and advanced particle systems. How to drive particles over surfaces, add texture to flow, create surface tensions, and use collision events to drive texture. Study of integrating computer-generated images with real-life video and audio.

Prerequisite: CMT 160 or CMT 225.

CMT 265. Personal Character Development**3 Credits (2+4P)**

Focus on the development of personal character(s), from sketch to render. Develop complete biographies of character, then build, skin and animate with as many personal attributes as possible.

Prerequisite: CMT 225.

CMT 266. Audio Postproduction**3 Credits (2+2P)**

Application of techniques for the final postproduction phase of audio track editing, mixing and mastering for film, music, and animation; including Automated Dialog Replacement (ADR) and foley. Restricted to: Community Colleges only.

Prerequisite(s): CMT 206, CMT 236, CMT 237, CMT 247 & CMT 248.

CMT 275. Advanced Web Techniques**3 Credits (2+2P)**

Creating and managing complex web sites using advanced techniques and tools. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisites: CMT 145 and CMT 230.

CMT 276. Advanced Photography Workshops**1 Credit**

This is a series of 1-credit workshops offering specialized and intense advanced skill training and upgrading applications of photography for commercial purposes and training in photographic skills and styles presented by a variety of professional lecturers. May be repeated up to 7 credits. Restricted to Community Colleges only.

Prerequisite(s): CMT 115.

CMT 285. Print Media III**3 Credits (2+2P)**

Refinement of skills needed to prepare a variety of documents for print and the service bureau. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 140 or CMT 240.

CMT 290. Advanced 3d Animation Workshop A**3 Credits (2+4P)**

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits.

Prerequisite: consent of instructor.

Corequisite: CMT 291.

CMT 291. Advanced 3d Animation Workshop B**3 Credits (2+4P)**

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits.

Prerequisite: consent of instructor.

Corequisite: CMT 290.

CMT 292. Creative Media Studio**3 Credits (2+2P)**

A studio environment where students specialize in creating film-festival quality and portfolio-ready projects under the supervision of faculty. May be repeated for a maximum of 6 credits.

Prerequisites: CMT 190 and CMT 195 or CMT 160.

CMT 294. Creative Media Studio II**3 Credits**

Second level of studio environment where students specialize in creating film-festival quality and portfolio ready projects under the supervision of faculty. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 292.

CMT 295. Professional Portfolio Design and Development**1-3 Credits**

Personalized design and creation of the student's professional portfolio including hard-copy, demo reel, and online. May be repeated for a maximum of 6 credits. Same as OEGR 280.

Prerequisite: consent of instructor.

CMT 298. Independent Study**1-3 Credits**

Individual studies directed by consenting faculty with prior approval of department head. May be repeated for a maximum of 6 credits. Same as OEGR 298.

Prerequisite: minimum GPA of 3.0 and sophomore standing.

Name: Program Manager: Karen M. Henry

Office Location: McClure, room 301

Phone: (505) 287-6656

Game Design - Certificate

31 credits

CMT 142	Computer Illustration	3
CMT 145	Image Processing I	3
CMT 151	Evolution of Electronic Games	3
CMT 160	Modeling and Animation	3
CMT 175	3-D Character Design	3
CMT 200	Critical Game Studies	3
CMT 228	Level Design Concepts	3
CMT 252	Game Tools and Techniques	3
CMT 260	3D Special Effects	3
Select 3 credits from the following:		3
CMT 227	Advanced Character Animation	
CMT 255	Special Topics	
CMT 140	Print Media I	
OECS 245	Game Programming I	
OR Approved media-related elective		

OETS 102	Career Readiness Certification Preparation	1
Total Credits		31

General Studies

General Studies - Associate Degree (p. 102)

Name: Harry Sheski

Office Location: Martinez Hall, Administration

Phone: 505-287-6641

General Studies - Associate Degree

60 credits

The Associate of General Studies degree program is intended for those wishing to tailor an Associate Degree to their own specific needs. It allows students to include courses from a variety of program areas. Any General Studies degree plan must be approved by the Vice President for Student Services.

The Associate of General Studies is not intended to be a substitute for the Associate of Arts or Associate of Science degree programs, which prepare students for transfer to Bachelor degree programs.

NOTE: The Associate of General Studies degree will not be awarded concurrently with any other Associate degree offered by NMSU.

Total Credits Required for Degree: 60

Requirements for this degree are:

- Complete a total of 60 credits (excludes noncredit courses such as any "N" suffix course);
- Complete ENGL 111G Rhetoric and Composition with a C or better;
- Achieve a 2.0 cumulative GPA;
- Complete the last 15 hours from NMSU.

Health Careers

Health Careers - Certificate (p. 104)

Nursing Assistant - Certificate (p. 105)

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 103. Introduction to Health Care Services**3 Credits**

Introduction to health care services, functions and responsibilities of a nurse aide, ethical and legal considerations, communication and medical terminology.

NA 104. Nursing Assistant Fundamentals**3 Credits**

This course prepares students for employment as a Nursing Assistant in a Long Term Care Facility. Theory and basic nursing care skills will be taught with an emphasis being placed on the psychosocial-cultural approach to client care. Students will learn communication skills, basic anatomy and physiology, growth and development, infection control, body mechanics, basic nutrition, client/resident elimination needs, the client/resident unit, vital signs, range of motion exercises, bed making, rehabilitation and restorative care, client admission and discharge, common health problems, dealing with death and dying, and basic medical terminology. NA 104 and NA 104L (laboratory) must be successfully completed with a C- or better in order to continue to NA 105 Nursing Assistant Clinical. NA 105 must also be successfully completed with a C- or better to be eligible to take the state certification competency examination. Attendance is required to meet the federal requirements for training hours and content prior to direct contact with a patient/resident and the state competency examination. Restricted to Community Colleges campuses only.

Prerequisite(s): Test out of all CCDE and CDDR courses and eligible to take ENGL 111G.

Corequisite(s): NA 104 L.

NA 104 L. Nursing Assistant Fundamentals Lab**1 Credit**

This course prepares students for employment as a Nursing Assistant in a Long Term Care Facility. Students will learn and demonstrate personal care skills including bathing, grooming, dressing, toileting, assisting with eating and hydration, skin care, transfers and positioning. Students will also learn and demonstrate the use of assistive devices, and how to maintain resident safety, dignity and privacy. NA 104 & NA 104L must be successfully completed with a C- or greater in order to continue to NA 105 Clinical. NA 105 must be successfully completed with a C- or greater to be eligible to take the state certification competency examination.

Prerequisite(s)/Corequisite(s): NA 104. Prerequisite(s): English COMPASS score of 35 or greater or CCDE 110N, and reading COMPASS score of 55 or greater or CDDR 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 106. Home Health Assistant**4 Credits (3+3P)**

Theory, skills and clinical experience leading to a job working with clients in the home environment. Prepares the certified nursing assistant for certification in the home health care arena.

Prerequisite: current CNA or consent of instructor.

Corequisites: CCDM 114N and CCDE 110N.

NA 107. Medication Assistant**5 Credits (4+3P)**

Theory, skills, and clinical to prepare the student to meet the State of New Mexico requirements to distribute medication in a residential setting to Medicaid DD waiver clients.

Prerequisites: CCDM 114N and CNA, or consent of instructor.

NA 108. Disabilities Support Services**4 Credits (3+2P)**

Beginning level preservice preparation for providing in-home care for individuals with disabilities. Crosslisted with: AHS 108. Restricted to: Community Colleges only.

Prerequisite(s): NA 101 or NA 104 or Consent of Instructor.

NA 109. Phlebotomist Basic**4 Credits (2+4P)**

This course provides the latest information, techniques, skills, and equipment for blood and specimen collection based on the standards of the Clinical and Laboratory Standards Institute, Needlestick Prevention Act, Joint Commission 2008 National Patient Safety Goals, OSHA and CDC. An advanced skills lab is included in the course to provide a "hands-on" practice experience and a 30 hour practicum in a supervised work environment collecting blood and specimens on actual patients for laboratory tests. Attendance is mandatory. Prepares students for employment as a phlebotomist in health care settings. Requires a "C" or better to pass. Upon successful completion of the course, student has the opportunity to test for National Healthcareer Certification. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): BIOL 154 or BIOL 226. Restricted to Community Colleges campuses only.

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

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

Prerequisite(s): BIOL 154 OR BIOL 225 & BIOL 226.

NA 111. Alzheimer/Dementia Care Focus**3 Credits**

Students will learn respectful care of Alzheimer/Dementia persons while ensuring their dignity, maximizing safe independence focusing on strengths and abilities. Pre/

Prerequisite(s)/Corequisite(s): NA 104 or NA 101. Restricted to: Community Colleges only.

NA 112. Patient Care Assistant**4 Credits (2+4P)**

This course prepares students to become patient care assistants (certified nursing assistant [CNA]). The course prepares students in the areas of critical thinking, collaboration with healthcare team members and performance of Certified Nursing Assistant skills within acute care units including: out-patient care unit (pre-operative), medical-surgical unit, orthopedic unit, mother-baby (obstetrics) and the mental health inpatient unit. Lab and clinical time will include learning skills in a practice setting with mannequins and in a hospital for acute care skill learning and application. Must pass course with a C- or better.

Prerequisite(s): NA-101 or current State of New Mexico Certified Nursing Assistant (CNA) certificate (CNA certification must remain current through end of course).

Corequisite(s): Current Basic Life Support (BLS) for the Health Care Provider (American Heart Association) (BLS certification must remain current through end of course).

NA 115. Phlebotomist Technician**6 Credits (3+6P)**

Basic theory and skills of phlebotomy following OSHA and Center for Disease Control guidelines. Prepares students for the requirements of testing for the ASCP certification exam and employment in a healthcare organization as a phlebotomist in licensed settings. Laboratory hours include infection control skills & practice, patient assessment & teaching, and practice in venipuncture. Clinical time includes clinical laboratory processes and operations, patient assessment, venipuncture, and exposure to clinical policies and procedures. Upon successful completion students are workforce ready.

Prerequisite(s)/Corequisite(s): OEEM 101. Restricted to Community Colleges campuses only.

NA 204. Patient Care Technician**4 Credits (3+3P)**

This course will prepare Certified Nursing Assistants (CNAs) to work in the acute care setting through an expansion of their existing basic skill set. Students will acquire expanded acute care skills, critical thinking skills, and knowledge in caring for patients of all ages. Currently CNA certified. Restricted to Community Colleges campuses only.

Prerequisite(s): (NA 104, NA 105, NA 109, NA 110, AHS 120, and (BIOL 154 or (BIOL 225 & BIOL 226))).

Corequisite(s): NA 205.

NA 205. Patient Care Technicians Practicum**4 Credits (1+9P)**

This course will prepare Certified Nursing Assistants (CNAs) to work in the acute care setting through an expansion of their existing basic skill set. Students will acquire expanded acute care skills, critical thinking skills, and knowledge in caring for patients of all ages. Students will go to acute care settings to practice newly acquired skills. Must have a "C" or better to pass. Restricted to Community Colleges campuses only.

Prerequisite(s): (NA 104, NA 105, NA 109, NA 110, AHS 120, & (BIOL 154 or (BIOL 225 & BIOL 226))) Currently CNA Certified.

Corequisite(s): NA 204.

NA 212. Medical Assistant Capstone Course**5 Credits (4+3P)**

This course provides the student with entry-level theory and limited "hands-on" training in basic and routine clinical office tasks. The course will equip the Medical Assistant (MA) student with the competencies required to perform in a medical office under the direct supervision of a physician. The graduate will be able to assist the physician with physical exams, ECGs, phlebotomy, and minor surgical procedures. May be repeated up to 5 credits. CNA Certification within the last 5 years.

Prerequisite(s): NA 105, NA 110, NA 109, AHS 120, BIOL 154, HIT 110, BOT 208, HIT 228, HIT 248, HIT 258.

NA 214. Medical Assistant Practicum**6 Credits (1+6P)**

This course is the practicum for NA 212 Medical Assistant Fundamentals Capstone Course. Students will prepare for a career as a medical assistant in medical offices and clinics. During practicum students will observe and participate in 180 hours in a supervised work environment using knowledge and skills learned in NA 212. This course includes weekly post-practicum conferences with the instructor. The student will be evaluated by both the employer and the instructor. Requires a "C" or better to pass. Upon successful completion the student may be eligible to test for National Certification. May be repeated up to 6 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): NA 212. Prerequisite(s): NA 105, NA 110, NA 109, AHS 120, BIOL 154, HIT 110, BOT 208, HIT 228, HIT 248, HIT 258. CNA Certified within the last 5 years. Restricted to Community Colleges campuses only.

Name: Program Manager: Neal Gallagher

Office Location: McClure, room 308

Phone: (505) 287-6654

Health Careers - Certificate

30 credits

The Health Careers 30 credit hour certificate is designed to prepare an individual for entry level employment in healthcare services as well as help build a strong foundation that supports additional education and training in more specialized healthcare related fields. Students are strongly encouraged to meet with the Program Manager and/or the advisor representing the college to which the student will be transferring, for help planning their studies.

Core

PHLS 100	Introduction to Health Science	1
OEEM 101	CPR for the Health Care Professional	1
COLL 101	College/Life Success	3
C S 110	Computer Literacy	3
or OECS 105	Introduction to Information Technology	
COMM 265G	Principles of Human Communication	3
AHS 116	Math for Health Occupations	3
AHS 120	Medical Terminology	3
Select one from the following:		4
AHS 153	Introduction to Anatomy and Physiology I	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
BIOL 225	Human Anatomy and Physiology I	
PHLS 150G	Personal Health and Wellness	3

Electives

Select a minimum of 6 credits from the following:		6
HNDS 251	Human Nutrition	
NA 101	Nursing Assistant Theory and Lab	
NA 104	Nursing Assistant Fundamentals	
NA 104 L	Nursing Assistant Fundamentals Lab	
NA 105	Nursing Assistant Clinicals	
OEEM 115	First Responder Prehospital Professional	

OEEM 120	Emergency Medical Technician Basic	
OEEM 120 L	Emergency Medical Technician Basic Lab	
Total Credits		30

Nursing Assistant - Certificate

16 credits

Nursing assistants perform basic nursing functions and procedures involving patient care. They work under the supervision of a registered nurse, licensed practical nurse, or physician. Nursing assistants tend to matters relating to personal hygiene, safety, nutrition, exercise, and elimination where maintaining patient comfort is a priority. Nursing assistants may be called upon to lift, move, or observe patients, as well as measure temperatures, pulses, respirations, and blood pressures. They may assist with patient admissions and discharges as well. The scope of their responsibilities, however, varies considerably depending upon the type of organization in which they are employed.

NOTE: Admission to the Nursing Assistant program requires Placement scores. Speak with an adviser regarding English and Math requirements and refer to course descriptions (p. 120).

Requirements

AHS 120	Medical Terminology	3
AHS 153	Introduction to Anatomy and Physiology I	4
NA 104	Nursing Assistant Fundamentals	3
NA 104 L	Nursing Assistant Fundamentals Lab	1
NA 105	Nursing Assistant Clinicals	4
OEEM 101	CPR for the Health Care Professional	1
Total Credits		16

Pre-Business

Pre-Business - Associate Degree (p. 105)

Name: Program Manager: Dr. Harry Sheski

Office Location: Martinez, Administration Offices

Phone: (505) 287-6641

Pre-Business - Associate Degree

60 credits

The Associate degree in Pre-Business provides basics in accounting and economics. Students who earn this degree will have completed the first two years of any four-year business degree offered at NMSU Las Cruces. Students are advised to complete the NM General Education Common Core to meet NMSU College of Business requirements.

New Mexico Common Core

<i>Area I: Communications</i>		
ENGL 111G	Rhetoric and Composition ¹	4
ENGL 203G	Business and Professional Communication ¹	3
COMM 265G	Principles of Human Communication ¹	3
	or COMM 253G Public Speaking	

Area II: Mathematics

MATH 121G	College Algebra	3
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Area III: Science

Select two from two departments from the following:		8
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ASTR 105G	The Planets	
or ASTR 110G	Introduction to Astronomy	
BIOL 111G & 111GL	Natural History of Life and Natural History of Life Laboratory	
BIOL 101G & 101GL	Human Biology and Human Biology Laboratory	
BIOL 110G	Contemporary Problems in Biology	
CHEM 110G	Principles and Applications of Chemistry	
C S 171G	Introduction to Computer Science	
E S 110G	Introductory Environmental Science	
GEOL 111G	Introductory to Geology	
or GEOG 111G	Geography of the Natural Environment	
PHYS 110G	The Great Ideas of Physics	

Area IV & V: Social/Behavioral Sciences and Humanities/Fine Art

Select 15 credits from 2-3 departments from Areas IV and V:		15
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Area IV: Social/Behavioral Sciences:

Select 6-9 credits from 2-3 departments from the following:

ECON 251G	Principles of Macroeconomics ²	
ECON 252G	Principles of Microeconomics ²	
ANTH G course		
C EP 110G	Human Growth and Behavior	
GEOG G course		
GOVT G course		
LING 200G	Introduction to Language	
PSY 201G	Introduction to Psychology (strongly recommended)	
SOC 101G	Introductory Sociology	
or SOC 201G	Contemporary Social Problems	
S WK 221G	Introduction to Social Welfare	
W S 201G	Introduction to Women s Studies	

Area V: Humanities/Fine Arts:

Select 6-9 credits from 2-3 departments from the following:

ART 101G	Orientation in Art	
ENGL 115G	Perspectives on Literature	
or ENGL 220G	Introduction to Creative Writing	
HIST 101G	Roots of Modern Europe	
HIST 102G	Modern Europe	
HIST 201G	Introduction to Early American History	
or HIST 202G	Introduction to Recent American History	
MUS 101G	An Introduction to Music	
or MUS 201G	History of Jazz in Popular Music: A Blending of Cultures	
PHIL G course		
THTR 101G	The World of Theatre	

Pre-Business Core Requirements

ACCT 221	Financial Accounting	3
ACCT 222	Management Accounting	3
BUSA 111	Business in a Global Society	3

Related Course Requirements

Select three in addition to Area II: Mathematics above from the following:

MATH 120	Intermediate Algebra ¹
MATH 142G	Calculus for the Biological and Management Sciences
STAT 251G	Statistics for Business and the Behavioral Sciences

Recommended Electives

Select one from the following:

COLL 101	College/Life Success
or C S 110	Computer Literacy
BMGT 210	Marketing
or BLAW 230	Business Law

Total Credits

60

¹ a grade of C or better is required

² Required Social Science courses by the College of Business at NMSU Las Cruces.

Region 1 Emergency Medical Services (EMS) Basic

Region 1 Emergency Medical Services (EMS) - Basic Certificate (p. 108)

OEEM 101. CPR for the Health Care Professional

1 Credit

Students learn identification and response to airway and circulation emergencies, including use of a SAED and accessing the EMS system. This course is taught using the American Heart Association guidelines for course completion. Required: grade of C or better.

OEEM 103. Heartsaver First Aid/CPR

1 Credit

Students learn how to identify and respond to airway, circulation and basic first aid emergencies, to include using a SAED and accessing the EMS system. This course is intended for students who are not Allied Health Majors and utilizes the American Heart Association guidelines for course completion. Restricted to: Community Colleges only.

OEEM 106. Advanced First Aid

2 Credits

Theory and advanced first aid skills taught emphasizing recognition and providing care for injury or sudden illness until professional medical help arrives. Course meets and/or exceeds the Red Cross or National Safety Council standards.

Corequisite: OEEM 101 or consent of instructor.

OEEM 115. First Responder Prehospital Professional

3 Credits (2+3P)

Provides training in prehospital medical and traumatic emergencies. Requires a C or better to pass. Restricted to majors.

Prerequisite: consent of instructor.

Corequisite: OEEM 101.

OEEM 116. Emergency Medical Technician Bridge 5 Credits (3+6P)

Enhanced skill instruction and didactic integration designed to meet the requirements for an EMT-Basic certificate. Requires a "C" or better to pass. May be repeated up to 5 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 115, OEEM 101.

Corequisite(s): OEEM 153, OEEM 121.

OEEM 120. Emergency Medical Technician Basic 6 Credits

EMT-Basic skills to include care of soft tissue and muscular/skeletal injuries, circulatory, nervous, general medical and respiratory emergencies. Requires a "C" or better to pass. May be repeated up to 6 credits. Consent of Instructor required.

Corequisite(s): OEEM 101, OEEM 120 L, OEEM 121.

Prerequisite(s)/Corequisite(s): OEEM 153. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

OEEM 120 L. Emergency Medical Technician Basic Lab 2 Credits

EMT-Basic skills development with emphasis on assessment, skills competency and team-work in patient care in the prehospital setting. Requires a C or better to pass.

Corequisites: OEEM 101 or OEEM 120, and OEEM 121, or consent of instructor.

OEEM 121. Emergency Medical Technician Basic Field/Clinical 1 Credit

Covers the patient care experience provided through assigned shifts in the hospital and/or ambulance setting. Requires a "C" or better to pass. May be repeated up to 1 credits. Consent of Instructor required.

Corequisite(s): OEEM 116 or OEEM 120, OEEM 120 L.

Prerequisite(s)/Corequisite(s): OEEM 101. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

OEEM 122. Emergency Medical Technician Basic Advanced Field/ Internship

2 Credits

Expanded patient care experience provided through practical scenarios, assigned shifts in the hospital and/or ambulance setting. Requires a C or better to pass.

Prerequisite: current EMT-basic license and consent of instructor.

OEEM 150. Emergency Medical Technician Intermediate 5 Credits

Theory of the roles, responsibilities and scope of practice of the EMT-Intermediate. Assessment and management of respiratory, cardiac, trauma, environmental, behavior, reproduction, and childhood emergencies. Requires a C or better to pass.

Prerequisites: current EMT-basic license, pretest and consent of instructor.

Corequisites: OEEM 150L and OEEM 151.

OEEM 150 L. Emergency Medical Technician Intermediate Lab 2 Credits

EMT-Intermediate skills development with an emphasis on assessment, skills competency, and team work in patient care in the prehospital setting. Requires a C or better to pass. Restricted to: Community Colleges only.

Corequisite(s): OEEM 150 and OEEM 151.

**OEEM 151. Emergency Medical Technician Intermediate Field/Clinical
2 Credits**

Patient care experience provided through assigned shifts in the hospital and/or ambulance setting. Requires a C or better to pass.

Prerequisite: consent of instructor.

Corequisites: OEEM 150 and OEEM 150L.

**OEEM 153. Introduction to Anatomy and Physiology for the EMS Provider
3 Credits**

To properly assess and manage a patient, a prehospital provider must have a solid foundation in human anatomy and physiology. This course provides a systematic approach to building this foundation. Grade of "C" or better is required to pass the course. Consent of Instructor required. Restricted to Community Colleges campuses only.

OEEM 155. Special Topics**1-6 Credits**

Specific topics to be listed in Schedule of Classes. May be repeated for a maximum of 10 credits.

**OEEM 158. Emergency Medical Technician-Combination Refresher
2 Credits**

A comprehensive review of prehospital medicine for the prehospital care provider from the first responder level through the EMT Intermediate.

New material relevant to recertification of the New Mexico First Responder, EMT Basic and EMT Intermediate licensure included. Graded S/U.

**OEEM 177. Emergency Medical Services Instructor
4 Credits**

Theory of student learning, methodology, instructional components, evaluation, and course coordination for the EMS profession. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

**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 I 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 II 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. Restricted to majors. Requires a C or better to pass.

Prerequisites: OEEM 202 and consent of instructor.

**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 ride-along 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.

OEEEM 218. Pediatric Advance Life Support for the Healthcare Professional**1 Credit**

Identify and respond to life threatening pediatric emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEEM 101.

OEEEM 219. Advance Cardiac Life Support for the Healthcare Provider**1 Credit**

Identify and respond to life threatening cardiac emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEEM 101.

OEEEM 230. EMT-Paramedic Clinical Experience I**3 Credits**

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

OEEEM 231. EMT-Paramedic Clinical Experience II**3 Credits**

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): OEEEM 230. Restricted to: OEMS, OEEEM majors. Restricted to Community Colleges campuses only.

OEEEM 240. EMT-Paramedic Field Experience I**3 Credits**

Advanced prehospital skills and knowledge. Successful completion of at least the minimum required hours and course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

OEEEM 241. EMT-Paramedic Field Experience II**3 Credits**

Continued focus on advanced prehospital skills and knowledge, with increasing responsibility for patient care. Successful completion includes meeting at least the minimum required hours and course objectives. Pre/ Requires a C- or better to pass.

Corequisites: OEEEM 240 Restricted to majors.

OEEEM 242. EMT-Paramedic Field Internship II**3 Credits**

Emphasis on total patient care responsibility and team leadership skills. Successful completion includes meeting the minimum hours required and course objectives. Pre/ Restricted to majors. Requires a C- or better to pass.

Corequisites: OEEEM 241.

OEEEM 243. EMT-Paramedic Preparation for Practice**2 Credits**

Comprehensive final program testing to prepare for licensing examination. Requires a "C" or better to pass. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: OEMS, OEEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEEM 242.

OEEEM 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.

OEEEM 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.

Name: Program Manager: Neal Gallagher

Office Location: McClure, 308

Phone: (505) 287-6654

Region 1 Emergency Medical Services (EMS) - Basic Certificate

30 Credits**General Education Requirement**

ENGL 111G	Rhetoric and Composition	4
COMM 253G	Public Speaking	3
MATH 120	Intermediate Algebra	3

EMS Core Requirements

OEEEM 101	CPR for the Health Care Professional	1
OEEEM 115	First Responder Prehospital Professional	3
OEEEM 120	Emergency Medical Technician Basic	6
OEEEM 120 L	Emergency Medical Technician Basic Lab	2
OEEEM 121	Emergency Medical Technician Basic Field/Clinical	1

Required Courses

COLL 101	College/Life Success	3
BIOL 225	Human Anatomy and Physiology I	4
or AHS 153	Introduction to Anatomy and Physiology I	

Total Credits	30
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Note: This certificate directly applies to the EMS Intermediate Associate of Applied Science degree. It is highly recommended that students who plan to transfer to a Bachelor's degree program complete the BIOL 225 Human Anatomy and Physiology I/BIOL 226 Human Anatomy and Physiology II course sequence to maximize the credit transfer. Medical Terminology is recommended but not required.

Region 1 Emergency Medical Services (EMS) Intermediate

Region 1 Emergency Medical Services (EMS) Intermediate - Associate of Applied Science (p. 111)

OEEM 101. CPR for the Health Care Professional**1 Credit**

Students learn identification and response to airway and circulation emergencies, including use of a SAED and accessing the EMS system. This course is taught using the American Heart Association guidelines for course completion. Required: grade of C or better.

OEEM 103. Heartsaver First Aid/CPR**1 Credit**

Students learn how to identify and respond to airway, circulation and basic first aid emergencies, to include using a SAED and accessing the EMS system. This course is intended for students who are not Allied Health Majors and utilizes the American Heart Association guidelines for course completion. Restricted to: Community Colleges only.

OEEM 106. Advanced First Aid**2 Credits**

Theory and advanced first aid skills taught emphasizing recognition and providing care for injury or sudden illness until professional medical help arrives. Course meets and/or exceeds the Red Cross or National Safety Council standards.

Corequisite: OEEM 101 or consent of instructor.

OEEM 115. First Responder Prehospital Professional**3 Credits (2+3P)**

Provides training in prehospital medical and traumatic emergencies. Requires a C or better to pass. Restricted to majors.

Prerequisite: consent of instructor.

Corequisite: OEEM 101.

OEEM 116. Emergency Medical Technician Bridge**5 Credits (3+6P)**

Enhanced skill instruction and didactic integration designed to meet the requirements for an EMT-Basic certificate. Requires a "C" or better to pass. May be repeated up to 5 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 115, OEEM 101.

Corequisite(s): OEEM 153, OEEM 121.

OEEM 120. Emergency Medical Technician Basic**6 Credits**

EMT-Basic skills to include care of soft tissue and muscular/skeletal injuries, circulatory, nervous, general medical and respiratory emergencies. Requires a "C" or better to pass. May be repeated up to 6 credits. Consent of Instructor required.

Corequisite(s): OEEM 101, OEEM 120 L, OEEM 121.

Prerequisite(s)/Corequisite(s): OEEM 153. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

OEEM 120 L. Emergency Medical Technician Basic Lab**2 Credits**

EMT-Basic skills development with emphasis on assessment, skills competency and team-work in patient care in the prehospital setting. Requires a C or better to pass.

Corequisites: OEEM 101 or OEEM 120, and OEEM 121, or consent of instructor.

OEEM 121. Emergency Medical Technician Basic Field/Clinical**1 Credit**

Covers the patient care experience provided through assigned shifts in the hospital and/or ambulance setting. Requires a "C" or better to pass. May be repeated up to 1 credits. Consent of Instructor required.

Corequisite(s): OEEM 116 or OEEM 120, OEEM 120 L.

Prerequisite(s)/Corequisite(s): OEEM 101. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

OEEM 122. Emergency Medical Technician Basic Advanced Field/Internship**2 Credits**

Expanded patient care experience provided through practical scenarios, assigned shifts in the hospital and/or ambulance setting. Requires a C or better to pass.

Prerequisite: current EMT-basic license and consent of instructor.

OEEM 150. Emergency Medical Technician Intermediate**5 Credits**

Theory of the roles, responsibilities and scope of practice of the EMT-Intermediate. Assessment and management of respiratory, cardiac, trauma, environmental, behavior, reproduction, and childhood emergencies. Requires a C or better to pass.

Prerequisites: current EMT-basic license, pretest and consent of instructor.

Corequisites: OEEM 150L and OEEM 151.

OEEM 150 L. Emergency Medical Technician Intermediate Lab**2 Credits**

EMT-Intermediate skills development with an emphasis on assessment, skills competency, and team work in patient care in the prehospital setting. Requires a C or better to pass. Restricted to: Community Colleges only.

Corequisite(s): OEEM 150 and OEEM 151.

OEEM 151. Emergency Medical Technician Intermediate Field/Clinical**2 Credits**

Patient care experience provided through assigned shifts in the hospital and/or ambulance setting. Requires a C or better to pass.

Prerequisite: consent of instructor.

Corequisites: OEEM 150 and OEEM 150L.

OEEM 153. Introduction to Anatomy and Physiology for the EMS Provider**3 Credits**

To properly assess and manage a patient, a prehospital provider must have a solid foundation in human anatomy and physiology. This course provides a systematic approach to building this foundation. Grade of "C" or better is required to pass the course. Consent of Instructor required. Restricted to Community Colleges campuses only.

OEEM 155. Special Topics**1-6 Credits**

Specific topics to be listed in Schedule of Classes. May be repeated for a maximum of 10 credits.

OEEM 158. Emergency Medical Technician-Combination Refresher**2 Credits**

A comprehensive review of prehospital medicine for the prehospital care provider from the first responder level through the EMT Intermediate. New material relevant to recertification of the New Mexico First Responder, EMT Basic and EMT Intermediate licensure included. Graded S/U.

OEEM 177. Emergency Medical Services Instructor**4 Credits**

Theory of student learning, methodology, instructional components, evaluation, and course coordination for the EMS profession. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

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 I 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 II 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. Restricted to majors. Requires a C or better to pass.

Prerequisites: OEEM 202 and consent of instructor.

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 ride-along with ambulance and dispatch observation. Requires a C or better to pass. Restricted to majors. Consent of instructor required. Restricted to: Community Colleges only. Restricted to OEEM majors.

Prerequisite(s): OEEM 120.

OEEM 207. Introduction to Pharmacology**3 Credits (2+3P)**

Drug actions, factors modifying drugs and dosages: characteristics of drug effects, and drug history and dosages. Prehospital protocol, transport, and common patient prescription medications. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only. Restricted to OEEM majors.

Prerequisite(s): OEEM 120.

OEEM 210. Cardiac Rhythm Interpretation**3 Credits (2+3P)**

Cardiac conduction system: electrophysiology, electrocardiogram, monitor, atrial, sinus, ventricular and junctional dysrhythmias, multiple lead EKG and 12 lead EKG interpretation. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 201, OEEM 206, OEEM 207.

OEEM 212. EMT-Paramedic Cardiovascular Emergencies**3 Credits (2+3P)**

Review anatomy, physiology, and pathophysiology of cardiovascular system. Assessment and management of cardiovascular emergencies in the prehospital setting. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 210.

OEEM 213. EMT-Paramedic: Medical Emergencies I**3 Credits (2+3P)**

Study of the disease process; assessment and management of neurological, endocrine, gastrointestinal, renal emergencies and infectious disease. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 212.

OEEM 214. EMT-Paramedic: Medical Environmental Emergencies II**3 Credits (2+3P)**

Study of disease process, assessment, and management of poisoning, drug and alcohol abuse, environmental, behavioral and geriatric emergencies. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 213.

OEEM 216. EMT-Paramedic: Reproductive and Childhood Emergencies**3 Credits (2+3P)**

Covers anatomy, physiology, disease processes, assessment and management of male and female reproductive system emergencies, childhood emergencies and growth and development. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only.

Prerequisite(s): OEEM 214 and consent of instructor.

OEEM 218. Pediatric Advance Life Support for the Healthcare**Professional****1 Credit**

Identify and respond to life threatening pediatric emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEM 101.

OEEM 219. Advance Cardiac Life Support for the Healthcare Provider**1 Credit**

Identify and respond to life threatening cardiac emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEM 101.

OEEM 230. EMT-Paramedic Clinical Experience I**3 Credits**

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

OEEM 231. EMT-Paramedic Clinical Experience II**3 Credits**

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): OEEM 230. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

OEEM 240. EMT-Paramedic Field Experience I**3 Credits**

Advanced prehospital skills and knowledge. Successful completion of at least the minimum required hours and course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

OEEM 241. EMT-Paramedic Field Experience II**3 Credits**

Continued focus on advanced prehospital skills and knowledge, with increasing responsibility for patient care. Successful completion includes meeting at least the minimum required hours and course objectives. Pre/ Requires a C- or better to pass.

Corequisites: OEEM 240 Restricted to majors.

OEEM 242. EMT-Paramedic Field Internship II**3 Credits**

Emphasis on total patient care responsibility and team leadership skills. Successful completion includes meeting the minimum hours required and course objectives. Pre/ Restricted to majors. Requires a C- or better to pass.

Corequisites: OEEM 241.

OEEM 243. EMT-Paramedic Preparation for Practice**2 Credits**

Comprehensive final program testing to prepare for licensing examination. Requires a "C" or better to pass. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: 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.

Name: Program Manager: Neal Gallagher

Office Location: McClure, 308

Phone: (505) 287-6654

Region 1 Emergency Medical Services (EMS) Intermediate - Associate of Applied Science

61 credits

General Education Requirements*Area I: Communications*

ENGL 111G	Rhetoric and Composition	4
ENGL 218G	Technical and Scientific Communication	3
COMM 253G	Public Speaking	3

Area II: Mathematics

MATH 121G	College Algebra (or higher MATH)	3
STAT 251G	Statistics for Business and the Behavioral Sciences	3
or STAT 271G	Statistics for Psychological Sciences	

Area III: Lab Sciences

CHEM 110G	Principles and Applications of Chemistry (or higher CHEM)	4
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Area IV: Social/Behavioral Sciences

ANTH 201G	Introduction to Anthropology	3
or SOC 101G	Introductory Sociology	
PSY 201G	Introduction to Psychology	3

Area V: Humanities and Fine Arts

ART 101G	Orientation in Art	3
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Select one from the following:		3
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PHIL 101G	The Art of Wondering	
PHIL 201G	Introduction to Philosophy	
PHIL 223G	Ethics	

EMS Core Requirements

OEEM 101	CPR for the Health Care Professional	1
OEEM 120	Emergency Medical Technician Basic	6
OEEM 120 L	Emergency Medical Technician Basic Lab	2

OEEM 121	Emergency Medical Technician Basic Field/Clinical	1
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OEEM 150	Emergency Medical Technician Intermediate	5
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OEEM 150 L	Emergency Medical Technician Intermediate Lab	2
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OEEM 151	Emergency Medical Technician Intermediate Field/Clinical	2
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Other Required Courses

BIOL 225	Human Anatomy and Physiology I	4
or AHS 153	Introduction to Anatomy and Physiology I	
BIOL 226	Human Anatomy and Physiology II	4
ENGL 112	Rhetoric and Composition II	2

Total Credits		61
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Note: This degree is substantially aligned to the UNM Paramedic Bachelor's degree. It is highly recommended that students who plan to transfer to a Bachelor's degree program complete the BIOL 225 Human Anatomy and Physiology I/BIOL 226 Human Anatomy and Physiology II course sequence. Please consult the most current UNM catalog for program details.

Social Services

Social Services - Associate Degree (p. 111)

Name: Program Manager: Megan Stoneking

Office Location: Martinez, room 121

Phone: (505) 287-6679

Social Services - Associate Degree

66 credits

See an Advisor or Program Manager for administration changes in 2016-2017 for this degree.

The Associate degree in Social Services prepares students for entry-level positions in a social services setting. Courses taken for this degree may

be used to transfer to NMSU Las Cruces for students wishing to pursue a bachelor's degree in Social Work or Sociology.

New Mexico Common Core

Area I: Communications

ENGL 111G	Rhetoric and Composition	4
ENGL 203G	Business and Professional Communication	3
or ENGL 211G	Writing in the Humanities and Social Sciences	
COMM 265G	Principles of Human Communication	3
or COMM 253G	Public Speaking	

Area II: Mathematics

Select one from the following:		3
STAT 251G	Statistics for Business and the Behavioral Sciences	
MATH 210G	Mathematics Appreciation	
or higher G MATH		

Area III: Science

BIOL 101G & 101GL	Human Biology and Human Biology Laboratory ¹	4
Select one from the following 100-200G Lab Science courses:		4
ASTR 105G	The Planets	
ASTR 110G	Introduction to Astronomy	
CHEM 110G	Principles and Applications of Chemistry	
C S 171G	Introduction to Computer Science	
E S 110G	Introductory Environmental Science	
GEOG 111G	Geography of the Natural Environment	
GEOL 111G	Introductory to Geology	
PHYS 110G	The Great Ideas of Physics	

Area IV: Social/Behavioral Sciences

C EP 110G	Human Growth and Behavior	3
S WK 221G	Introduction to Social Welfare ¹	3
PSY 201G	Introduction to Psychology	3
SOC 101G	Introductory Sociology	3
or SOC 201G	Contemporary Social Problems	

Area V: Humanities/Fine Art

Select two from the following 100-200 level Humanities/Fine Arts G courses:		6
ENGL 244G	Literature and Culture	
HIST 101G	Roots of Modern Europe	
HIST 102G	Modern Europe	
HIST 201G	Introduction to Early American History	
HIST 202G	Introduction to Recent American History	
ART 101G	Orientation in Art	
MUS 101G	An Introduction to Music	
MUS 201G	History of Jazz in Popular Music: A Blending of Cultures	
PHIL 101G	The Art of Wondering	
PHIL 201G	Introduction to Philosophy	
THTR 101G	The World of Theatre	

Second Language

Select 8 credits from the following:		8
SPAN 111 & SPAN 112	Elementary Spanish I and Elementary Spanish II	

Two semesters of a second language

Other Course Requirements		
COLL 101	College/Life Success	3
C S 110	Computer Literacy	3
or OECS 105	Introduction to Information Technology	
PSY 266	Applied Psychology	3
or PSY 290	Psychology of Adjustment	
S WK 253	Case Management	3
Elective		1
Concentration Areas		
Paraprofessional or NMSU School of Social Work Option		6
Total Credits		66

¹ Recommended courses to articulate to the BSW and MSW.

A grade of C or better is required on all General Education and Social Service courses.

Paraprofessional Option

Select two from the following:		6
ANTH 201G	Introduction to Anthropology	
or ANTH 203G	Introduction to Language and Cultural Anthropology	
GOVT 100G	American National Government	
or GOVT 110G	Introduction to Political Science	
or C J 250	Courts and the Criminal Justice System	
PHLS 150G	Personal Health and Wellness	
W S 201G	Introduction to Women s Studies	
or W S 202G	Representing Women Across Cultures	
Total Credits		6

NMSU School of Social Work Option

Cultural Emphasis Requirement		
SPAN 211	Intermediate Spanish I	3
SPAN 212	Intermediate Spanish II	3
Total Credits		6

Southwest Heritage Studies

Southwest Heritage Studies - Certificate (p. 112)

Name: Program Manager, Dr. Harry Sheski

Office Location: Martinez, Administrative Offices

Phone: (505) 287-6648

Southwest Heritage Studies - Certificate

33-37 Credits

The Certificate in Southwest Heritage Studies will prepare students for service in local museums, parks, visitor centers, historical centers, and cultural facilities to work as interpreters, tour guides, docents, technicians, or in any other capacity. The certificate also will enhance employment prospects for local students applying to hotel front desks, restaurants, travel agencies, realtors, retail outlets and other businesses

with a tourist clientele. The curriculum focuses on New Mexico's rich cultural and natural heritage. Students will gain first-hand knowledge of local culture and tourist attractions which will improve their ability to communicate with a diverse public. The capstone event is either an internship with a local tourist-oriented center or an independent study requiring students to visit at least 10 local tourist sites as well as web sites of other major attractions.

Requirements

Area I: Communications

ENGL 111G	Rhetoric and Composition	4
COMM 253G	Public Speaking	3
or COMM 265G	Principles of Human Communication	

Area II: Mathematics

MATH 120	Intermediate Algebra	3
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Area III: Lab Sciences

Select 3-4 credits from the following:		3-4
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BIOL 111G & 111GL	Natural History of Life and Natural History of Life Laboratory	
BIOL 250	Special Topics	

Select one from the following:		4
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ASTR 110G	Introduction to Astronomy	
GEOL 111G	Introductory to Geology	
GEOL 212G	The Dynamic Earth	

Area IV: Social Sciences

ANTH 125G	Introduction to World Cultures	3
or ANTH 203G	Introduction to Language and Cultural Anthropology	
GEOG 112G	World Regional Geography	3
or GEOG 120G	Culture and Environment	

Grants Required Course

C S 110	Computer Literacy	3
or OECS 105	Introduction to Information Technology	

Local History Requirements

HIST 261	New Mexico History	3
HIST 269	Special Topics	1-3

Electives

Select at least one from the following:		3-4
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ANTH 116	Native Peoples of the American Southwest	
BIOL 250	Special Topics	
ENGL 115G & ENGL 244G	Perspectives on Literature and Literature and Culture	
GEOL 220	Special Topics	
NAV 101	Introduction to Navajo Studies	
NAV 111	Elementary Navajo I	
SPAN 111 & SPAN 112	Elementary Spanish I and Elementary Spanish II	
SPAN 211 & SPAN 212	Intermediate Spanish I and Intermediate Spanish II	

Total Credits

33-37

CMT 100. Introduction to Visual Communications

3 Credits

Overview of the process of crafting a digital product from conception to final. Incorporates basic principles of art and design, typography, layout, color and imagery, logos and advertising basics. Same as OEGR 105.

CMT 108. Introduction to Media Technologies

1-3 Credits (1-3)

Introduction to various media technologies. Restricted to: Community Colleges only. Cross-listed: OEGR 108

CMT 110. Introduction to Web Design

1 Credit

Basics of creating simple web sites for personal use.

CMT 115. Digital Photography and Imaging I

3 Credits (2+2P)

Principles and techniques of photography using digital equipment with an emphasis on lighting, focus, and composition.

CMT 120. Introduction to Creative Media

3 Credits (2+2P)

Exploration and discovery of the creative processes through art, music, theater, narrative, and other avenues.

CMT 126. Film Crew Training I

9 Credits

This course was designed in collaboration with the NM IATSE Local 480 union and the NM Film Office and focuses on providing hands-on training for students wishing to work on film crews. The course will offer an overview of the primary below-the-line craft areas of film production. Restricted to: Community Colleges only.

CMT 130. Introduction to Web Design

3 Credits (2+2P)

Introduction to web development techniques, theory, and design. Incorporates HTML and industry-standard web editing software in developing various web sites. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ART 161 OR CMT 145.

CMT 135. Introduction to 3D Computer Animation

3 Credits (2+4P)

Learning to work in a 3D environment. Introduction to the basics of modeling, animation, dynamics, and rendering. Working with polygons, NURBS and subdivisions, and editing in multiple interfaces. May be repeated for a maximum of 6 credits.

CMT 140. Print Media I

3 Credits (2+2P)

Creation and design of publications and presentation materials using page layout software. May be repeated for a maximum of 6 credits.

CMT 142. Computer Illustration

3 Credits (2+2P)

Preparation of digital graphics with a vector or draw program for use in print, web, video, animations, and multimedia. May be repeated for a maximum of 6 credits.

CMT 145. Image Processing I

3 Credits (2+2P)

Design and creation of digital graphics using a raster or bitmap program for use in print, multimedia, video, animation and web. May be repeated for a maximum of 6 credits.

Web Fundamentals

Web Fundamentals - Certificate (p. 117)

CMT 150. 2D Animation**3 Credits (2+2P)**

Concepts and techniques in storyboarding and creating interactive 2D animations for web, multimedia and video.

Prerequisites: CMT 142 or CMT 146.

CMT 151. Evolution of Electronic Games**3 Credits (2+2P)**

Focus on the evolution of video games and how they have shaped mainstream entertainment. May be repeated up to 6 credits.

CMT 155. Selected Topics**1-4 Credits**

Specific titles to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits. Same as OEGR 155.

CMT 156. Film Crew Training II**9 Credits**

The purpose of this course is to provide applied training in a specific film production crew craft area, in which a student has decided to specialize. The various craft areas include but are not limited to, Art Dept., Grip., Electric, Sound, Production Office, Script Supervision, Props, Set Dressing, Locations, Special Effects, Hair/Makeup, Wardrobe, Production Assistant/Set Operations. Restricted to: Community Colleges only.

Prerequisite(s): CMT 126.

CMT 160. Modeling and Animation**3 Credits (2+2P)**

Building on student's knowledge of 2D animation, covers modeling, animating objects and scenes in a 3D environment using various camera and lighting effects. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

CMT 165. Writing and Storyboarding**3 Credits (2+2P)**

Learning good writing principles to create storyboards and scripts that communicate the overall picture of the project, timing, scene complexity, emotion, and resource requirements.

Prerequisite: CMT 135 or CMT 160.

CMT 170. History of Film: A Global Perspective**3 Credits**

Explores the history of cinema from the earliest 19th century developments to the present digital video revolution. Offers students a broader base of understanding of the tools and methodologies used in the craft.

CMT 175. 3-D Character Design**3 Credits (2+4P)**

Focus on designing a character and then taking that design and building it in 3D using intermediate modeling techniques. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 135 or CMT 160.

CMT 180. Design Principles**3 Credits (2+2P)**

Techniques and theories of design principles, including layout foundations, logo building, type, color, and story-boarding and their application to print, web, animation and video. Restricted to: Community Colleges only.

Prerequisite(s): CMT 142 or CMT 146.

CMT 182. Environmental Modeling, Shading and Lighting**3 Credits (2+4P)**

Modeling design techniques to create natural and architectural environments to be used for animated films and gaming. Study of various lighting techniques, shading and shadowing.

Prerequisite: CMT 135 or CMT 160.

CMT 185. 3D Shading and Lighting Techniques**3 Credits (2+4P)**

Study of various global, scene and character lighting techniques, shading and shadowing, and creating atmospheres and reflections that bring computer generated 3D scenes to life. Examines environmental and studio lighting to bring real life experience into the digital production process.

Prerequisite: CMT 135 or CMT 160.

CMT 190. Digital Video Production I**3 Credits (2+4P)**

A hands-on study of the tools and techniques used to produce the independent video. Through the production of various short projects, the student explores how the ideas of the writer/director are translated into a visual story. May be repeated for a maximum of 6 credits.

CMT 192. Acting for the Camera**3 Credits (2+2P)**

Covers acting techniques, body movement, monologues and auditioning. Students will gain professional acting experience on camera as well as learn what is expected on a film or video set. Restricted to: Community College only.

CMT 195. Digital Video Editing I**3 Credits (2+2P)**

A study of the basic tools and techniques of non-linear digital video editing. May be repeated for a maximum of 6 credits.

CMT 200. Critical Game Studies**3 Credits (2+2P)**

Focus on creating a complete design document utilizing techniques and standards used in the industry today. May be repeated for up to 6 credits. Restricted to: Community Colleges only.

CMT 205. Cinematography**3 Credits (2+2P)**

Theory and techniques of visual design in cinematography and the aesthetics of lighting. May be repeated for a maximum of 6 credits. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 190.

CMT 206. Principles of Sound**3 Credits (2+2P)**

Study of soundtrack design theory, and the use of audio editing software that is compatible with media editing software to create soundtracks for different visual media. Pre/ Restricted to: Community Colleges only.

Corequisite(s): CMT 195.

CMT 210. Digital Video Production II**3 Credits (2+2P)**

Advanced techniques of the tools and application of professional film making. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 190.

CMT 215. Digital Video Editing II**3 Credits (2+2P)**

Advanced features of digital video, audio/music, and titling production software. Included are color correction, vector scopes, motion effects, and advanced editing techniques used by filmmakers. May be repeated for a maximum of 6 credits. Same as OEGR 215.

Prerequisite: CMT 195 or OEGR 210.

CMT 216. Digital Photography and Imaging II**3 Credits (2+2P)**

Provide understanding and skills needed for advanced digital capture, editing, optimizing and manipulating photographic images for print, web and multimedia applications. The course will prepare students to make more advanced technical and more refined aesthetic decisions relative to specific photographic applications. Restricted to: Alamogordo campus, Carlsbad campus, Dona Ana campus.

Prerequisite(s): CMT 115.

CMT 217. Layer Animation & 3D Applications in Photoshop**1 Credit**

This is an advanced course in Photoshop 2D techniques and motion graphic applications pertaining to the animation of Photoshop Layers juxtaposed over time and space relationships. Restricted to: CMT majors. Restricted to Community Colleges only.

Prerequisite(s): CMT 145.

CMT 218. Video for Social Interaction and Informal Commerce**3 Credits**

The use of DSLR video has opened the way for photographers to be able to add video as a component of expression. This course shows the ways that this tool can be used for on-line instructional videos, demonstrations and presentations. As more and more commercial entities become involved in YouTube and other social media, this becomes a vocationally viable form of visual communication. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: Community Colleges only.

CMT 220. Environmental Scene Design**3 Credits (2+4P)**

Modeling design techniques used to create environments and scenes for use in animated films and games. Investigation of both natural and architectural environments to be recreated in the virtual world.

Prerequisite: CMT 135 or CMT 160.

CMT 221. Internship**1-3 Credits**

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 9 credits. Consent of Instructor required. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

CMT 222. Pre-production Management**3 Credits (2+2P)**

Pre-production planning paperwork breakdowns, budgeting, and scheduling; taking a project from start to finish from a producers standpoint.

Prerequisite: CMT 190.

CMT 223. Media Production Services**1-3 Credits**

A design studio environment in which students obtain real-world experience while providing service to college and non-profit associations with faculty supervision using a variety of media. Can be used with permission to fulfill cooperative requirement. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 180 or ART 163.

CMT 224. Environmental Scene Design II**3 Credits**

Second level of 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. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 220.

CMT 225. Anatomical Character Design**3 Credits (2+4P)**

Focus on building anatomy-based 3D characters. Advanced study in NURBS, subdivisions, and polygon modeling techniques used to create fully functional and realist models. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 175.

CMT 226. Film Crew Cooperative Experience**3-6 Credits (3-6)**

Industry production experience in specific craft areas for film crew technicians who have successfully completed two semesters of FTTP. Restricted to: Dona Ana campus, Carlsbad campus.

Prerequisite(s): CMT 156.

CMT 227. Advanced Character Animation**3 Credits (2+2P)**

Focus on complex rigging techniques as well as utilizing advanced animation functions to blend multiple animations into complex animations. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): CMT 160.

CMT 228. Level Design Concepts**3 Credits (2+2P)**

Focus on the design and creation of video game levels. Dealing with the challenges and pitfalls of different video game genres. May be repeated for a maximum of 6 credits. Prerequisite: CMT 200

CMT 229. 3D Digital Sculpting**3 Credits**

Introduce students to the 3D Sculpting programs which are the industry standard sculpting programs. Students will learn how to create complex high polygon sculpts and normal maps and transfer the models into 3D studio Max and Autodesk Maya. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): CMT 160.

CMT 230. Web Design II**3 Credits (2+2P)**

Creating and managing well-designed, organized web sites using HTML and web development software. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only. Cross-listed: OEGR 230

Prerequisite(s): CMT 130.

CMT 235. Web Design for Small Businesses**3 Credits (2+2P)**

Technology and techniques for designing and building a web presence for small business. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only. Cross-listed: OEGR 235

Prerequisite(s): CMT 130.

CMT 236. Digital Audio Fundamentals**3 Credits (2+2P)**

Advanced digital audio post production and recording techniques using current entertainment industry-standard software and hardware. Restricted to: Community Colleges only.

CMT 237. Digital Audio Editing**3 Credits (2+2P)**

Techniques in digital audio composing, recording, editing, processing, MIDI & virtual instruments. Additional course topics include signal routing and processing, digital console design, audio signal paths, digital plug-ins, audio file management. Restricted to: Community Colleges only.

Prerequisite(s): CMT 236.

CMT 240. Print Media II**3 Credits (2+2P)**

Refining of technical design skills using advanced features of page layout software in preparing a variety of business-related documents. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 140 or OEGR 140.

CMT 242. Advanced Computer Illustration**3 Credits (2+2P)**

Advanced techniques in 2D vector drawing and fundamentals of 3D illustration for use in print, web, and multimedia applications. May be repeated for a maximum of 6 credits. Same as OEGR 270.

Prerequisite: CMT 142.

CMT 245. Image Processing II**3 Credits (2+2P)**

Advanced techniques in editing and manipulation of raster images for digital graphics for print, multimedia and web. May be repeated for a maximum of 6 credits. Same as OEGR 260.

Prerequisite: CMT 145.

CMT 247. Production Audio**3 Credits (2+2P)**

Essential tools and techniques in: field and studio recording and mixing, environmental assessment, film set protocol, various microphones, audio documentation, wildlines, ambient audio. Restricted to: Community Colleges only.

Prerequisite(s): CMT 190 and CMT 236.

CMT 248. Music Production and Mastering**3 Credits (2+2P)**

Introduction to fundamental tools and techniques in music production and mastering. Including: microphones and microphone techniques, live and studio recording, editing, mixing, and introduction to mastering digital audio. Restricted to: Community Colleges only.

Prerequisite(s): CMT 206 and CMT 236.

CMT 249. Layer Animation and 3D Applications in Photoshop**3 Credits**

This is an advanced course in Photoshop 3D techniques and motion graphic applications pertaining to the animation of Photoshop Layers juxtaposed over time and space relationships. May be repeated up to 6 credits. Restricted to Community Colleges only.

Prerequisite(s): CMT 245.

CMT 250. Advanced Graphics for Digital Media**3 Credits (2+2P)**

Advanced techniques in design and creation of high-level 2D animations and interactive interfaces for web, multimedia, and video. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 150.

CMT 252. Game Tools and Techniques**3 Credits (2+2P)**

Focus on the different engines and gaming technologies that power the games of today. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 200.

CMT 253. History of Animation**3 Credits**

Exploration of animation as art form and industry. Material spans from the roots of animation before film technology to modern commercial and artistic animated productions. Restricted to: Community Colleges only.

CMT 254. History of Media Design**3 Credits**

An introduction to the principles of design history and theory within a chronological framework of historical and emerging media.

CMT 255. Special Topics**1-4 Credits**

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits.

CMT 256. Typography**3 Credits**

Foundation in typography with an emphasis on history of typography and the practical application and impact of font choices for print, web, animation and video. Deals with studies in font or letter construction and font choices focusing on design, application, incorporation, and visual impact. Restricted to: Community Colleges only.

Prerequisite(s): CMT 142.

CMT 258. Advanced Camera Techniques**3 Credits (2+2P)**

Professional camera techniques and training for electronic news gathering and studio filmmaking. Utilizes high-end handheld shooting techniques, cranes, dollies, and steadicam training. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 190.

CMT 260. 3D Special Effects**3 Credits (2+4P)**

Creating advanced virtual special effects for both rigid and soft bodies. Using MEL, dynamic principles, mixing nodes, and advanced particle systems. How to drive particles over surfaces, add texture to flow, create surface tensions, and use collision events to drive texture. Study of integrating computer-generated images with real-life video and audio.

Prerequisite: CMT 160 or CMT 225.

CMT 265. Personal Character Development**3 Credits (2+4P)**

Focus on the development of personal character(s), from sketch to render. Develop complete biographies of character, then build, skin and animate with as many personal attributes as possible.

Prerequisite: CMT 225.

CMT 266. Audio Postproduction**3 Credits (2+2P)**

Application of techniques for the final postproduction phase of audio track editing, mixing and mastering for film, music, and animation; including Automated Dialog Replacement (ADR) and foley. Restricted to: Community Colleges only.

Prerequisite(s): CMT 206, CMT 236, CMT 237, CMT 247 & CMT 248.

CMT 275. Advanced Web Techniques**3 Credits (2+2P)**

Creating and managing complex web sites using advanced techniques and tools. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisites: CMT 145 and CMT 230.

CMT 276. Advanced Photography Workshops**1 Credit**

This is a series of 1-credit workshops offering specialized and intense advanced skill training and upgrading applications of photography for commercial purposes and training in photographic skills and styles presented by a variety of professional lecturers. May be repeated up to 7 credits. Restricted to Community Colleges only.

Prerequisite(s): CMT 115.

CMT 285. Print Media III**3 Credits (2+2P)**

Refinement of skills needed to prepare a variety of documents for print and the service bureau. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 140 or CMT 240.

CMT 290. Advanced 3d Animation Workshop A**3 Credits (2+4P)**

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits.

Prerequisite: consent of instructor.

Corequisite: CMT 291.

CMT 291. Advanced 3d Animation Workshop B**3 Credits (2+4P)**

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits.

Prerequisite: consent of instructor.

Corequisite: CMT 290.

CMT 292. Creative Media Studio**3 Credits (2+2P)**

A studio environment where students specialize in creating film-festival quality and portfolio-ready projects under the supervision of faculty. May be repeated for a maximum of 6 credits.

Prerequisites: CMT 190 and CMT 195 or CMT 160.

CMT 294. Creative Media Studio II**3 Credits**

Second level of studio environment where students specialize in creating film-festival quality and portfolio ready projects under the supervision of faculty. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 292.

CMT 295. Professional Portfolio Design and Development**1-3 Credits**

Personalized design and creation of the student's professional portfolio including hard-copy, demo reel, and online. May be repeated for a maximum of 6 credits. Same as OEGR 280.

Prerequisite: consent of instructor.

CMT 298. Independent Study**1-3 Credits**

Individual studies directed by consenting faculty with prior approval of department head. May be repeated for a maximum of 6 credits. Same as OEGR 298.

Prerequisite: minimum GPA of 3.0 and sophomore standing.

Name: Program Manager: Karen Henry

Office Location: McClure, 301

Phone: (505) 287-6656

Web Fundamentals - Certificate

30 credits**Requirements**

C S 110 or OECS 105	Computer Literacy Introduction to Information Technology	3
CMT 130	Introduction to Web Design	3
CMT 142	Computer Illustration	3
CMT 145	Image Processing I	3
CMT 180	Design Principles	3
CMT 223	Media Production Services	3
CMT 230	Web Design II	3
CMT 295	Professional Portfolio Design and Development	3
CMT Electives		6
Total Credits		30

Welding Technology

Welding Technology - Associate of Applied Science (p. 119)

Welding Technology - Certificate (p. 119)

WELD 100. Structural Welding I**6 Credits (3+6P)**

Development of basic skills in SMAW, OFC, and OFW in accordance with the AWS entry-level welder program.

WELD 101. Fundamentals of Welding**3 Credits**

Set-up and adjustment of ARC and oxyacetylene equipment. Welding safety procedures and terminology. Skill development in laying weld beads with various patterns, positions, and processes.

WELD 102. Welding Fundamentals**3 Credits (2+2P)**

Survey of welding and cutting processes for nonmajors. Classroom instruction and laboratory work with OFC/OFW, SMAW, GMAW, FCAW, and plasma arc cutting.

WELD 105. Introduction to Welding**3 Credits**

Welding practices, procedures, and terminology. Welding safety, equipment types, electrode types in usage, joint design and testing procedures.

WELD 110. Blueprint Reading (Welding)**3 Credits**

Interpretation of prints related to welding. Emphasis on AWS standard symbols for welding, brazing, and nondestructive examination.

WELD 112. Professional Development and Leadership**1 Credit**

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing or participating in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: WELD majors. S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

WELD 115. Structural Welding II**6 Credits (3+6P)**

Continuation of WELD 100. Emphasis on AWS entry and advanced level welder skills with SMAW, including all-position welding with mild and stainless steel electrodes. Plasma arc and air-carbon arc cutting, metallurgy, heat treatment, and weld defects.

Prerequisite: WELD 100.

WELD 120. Basic Metallurgy**3 Credits**

Properties of ferrous and nonferrous materials. Service conditions and heat treatment of metals related to welding trade.

Prerequisites: WELD 100 or consent of instructor.

WELD 125. Introduction to Pipe Welding**3 Credits (2+2P)**

Pipe fit-up and welding techniques for pipe fitting and pipe weld joint using SMAW, GMAW, GTAW, and FCAW, 2G welding of pipe. Restricted to: Community Colleges only.

Prerequisite(s): WELD 100, WELD 130, and WELD 140, or consent of instructor.

WELD 126. Industrial Pipe Welding**3 Credits**

Enhancement of WELD 125. Development of more advanced pipe welding skills.

Prerequisites: WELD 110, WELD 130 and WELD 140.

Corequisite: WELD 125.

WELD 130. Introduction to GMAW MIG)**3 Credits (2+2P)**

Development of basic skills with gas metal arc welding (MIG) in accordance with AWS entry-level welder objectives. Wire electrodes, shielding/purge gases, and modes of metal transfer.

WELD 140. Introduction to GTAW TIG)**3 Credits (2+2P)**

Development for basic skills with gas tungsten arc welding (TIG) in accordance with AWS entry/advanced welder objectives. Welding mild steel, tungsten electrode preparation, filler wire selection, and equipment set-up.

WELD 150. Pipe Welding II**3 Credits (2+2P)**

Continuation of WELD 125; with fillet and groove welded joints in a horizontal fixed and 45-degree fixed positions (5-F, 5-G, 6-F, 6-G).

Prerequisite: WELD 125.

WELD 151. Industrial Pipe Welding II**3 Credits**

Enhancement of WELD 150. Development of more advanced pipe welding skills. Emphasis on industry driven test.

Prerequisites: WELD 125 and WELD 126.

Corequisite: WELD 150.

WELD 160. Introduction to SAW and FCAW**3 Credits (2+2P)**

Submerged arc and flux-cored arc welding. Demonstrations and practice with machine travel submerged arc welding (SAW), flux-cored arc welding (FCAW-G, FCAW-S) on mild steel plate and pipe. Restricted to: Community Colleges only.

WELD 170. Welded Fabrication**3 Credits (1+4P)**

Development of fabrication skills including basic layout, measuring, and utilization of various welding processes including out-of-position welding. Use of common shop tools.

Prerequisites: WELD 100, WELD 110, WELD 130, and OETS 104 or OETS 118.

WELD 180. GTAW II**3 Credits (2+2P)**

Continuation of WELD 140. Development of more advanced GTAW skills. Emphasis on pipe welding with mild steel, stainless steel, and aluminum.

Prerequisite: WELD 140 or consent of instructor.

WELD 190. Welded Art**3 Credits (1+4P)**

Students explore the possibilities of welded art in the form of sculpture, jewelry, furniture and as a framework to support other art media. Offered as an elective for students who wish to create art using welding.

Prerequisite: WELD 102 or consent of instructor.

WELD 205. Welding Equipment Maintenance**3 Credits (2+2P)**

Hands-on experience in the maintenance and repair of welding equipment, including welding machines and associate shop equipment, as well as the development of preventative maintenance programs. Basic safety, including MSDS and Right-to-Know will be introduced. Restricted to: Community Colleges only.

Prerequisite(s): WELD 100, WELD 130, WELD 140, WELD 160.

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 230. Weld Testing**3 Credits (2+2P)**

Covers destructive and nondestructive examination methods used to test welds. Tensile, compression, bend, hardness, impact, visual, dye-penetrant, magnetic particle, ultrasound, and radiographic methods of testing/examination. Restricted to: Community Colleges only.

Prerequisite(s): WELD 100, WELD 130, WELD 140, WELD 211, and OETS 104, or 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.

Name: Program Manager: Richard Gutierrez

Office Location: Martinez, 121

Phone: (505) 287-6645

Welding Technology - Associate of Applied Science

60 credits

The Associate of Applied Science in Welding Technology teaches students how to set up and use various types of welding equipment. Students also will learn how to weld pipe and plate in various positions: flat, horizontal, vertical, and overhead.

(See also Welding Technology Certificate (p. 119))

General Education Requirements*Area I: Communications*

ENGL 111G	Rhetoric and Composition	4
ENGL 203G	Business and Professional Communication	3
or ENGL 218G	Technical and Scientific Communication	
COMM 253G	Public Speaking	3
or COMM 265G	Principles of Human Communication	

Area II: Mathematics

MATH 120	Intermediate Algebra	3
or OETS 118	Mathematics for Technicians	

Area IV: Social/Behavioral Science

PSY 201G	Introduction to Psychology	3
or SOC 101G	Introductory Sociology	

Welding Technology Core

WELD 100	Structural Welding I	6
WELD 105	Introduction to Welding	3
or AUTO 105	Welding	
WELD 110	Blueprint Reading (Welding)	3
WELD 115	Structural Welding II	6
WELD 120	Basic Metallurgy	3
WELD 125	Introduction to Pipe Welding	3

WELD 130	Introduction to GMAW MIG)	3
WELD 140	Introduction to GTAW TIG)	3
WELD 211	Welder Qualification	6

Other Course Requirements

COLL 101	College/Life Success	3
or C S 110	Computer Literacy	
DRFT 114	Introduction to Solid Modeling	3
or DRFT 109	Computer Drafting Fundamentals	

Other Courses Electives

Select minimum credits to bring total to 60 credits from the following:	2
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OECS/ CS electives

WELD 221	Cooperative Experience I	
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Total Credits	60
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Welding Technology - Certificate

33-34 credits**Welding Requirements**

WELD 100	Structural Welding I	6
WELD 105	Introduction to Welding	3-4
or AUTO 105	Welding	
WELD 110	Blueprint Reading (Welding)	3
WELD 115	Structural Welding II	6
OETS 118	Mathematics for Technicians	3
WELD 120	Basic Metallurgy	3
WELD 125	Introduction to Pipe Welding	3
WELD 130	Introduction to GMAW MIG)	3
WELD 140	Introduction to GTAW TIG)	3

Total Credits	33-34
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COURSES DESCRIPTIONS

Courses are listed with the following format:

ART 260 Introduction to Painting 3 cr. (2+4P)

The prefix of the course—ART—indicates the subject or department (in this case Art). The first digit in the course number of ART 260 is 2, which indicates that the course is a sophomore-level course. The next two digits (60) indicate the course sequence. The 3 cr. indicates that the course is a 3-credit course. The (2+4P) means that the class meets for two hours per week for recitation or lecture and also requires 4 hours per week of "practice" (laboratory, field work, or other activities).

Course numbers indicate the class rank:

- 100–199 are Freshman-level courses
- 200–299 are Sophomore-level courses

The letter N is added as a suffix to the course number when the course credits are not applicable to the baccalaureate and specified associate degrees.

The letter "G" is added as a suffix to the course number when the course meets General Education common core requirements for transfer to other New Mexico institutions of higher education, as established by the New Mexico Higher Education Department. (Note that some other courses without a "G" also meet transfer requirements.)

A

- A E-AEROSPACE ENGINEERING (A E) (p. 122)
- A S-ARTS AND SCIENCES (A S) (p. 122)
- A ST- APPLIED STATISTICS (A ST) (p. 122)
- ACCT-ACCOUNTING (ACCT) (p. 122)
- ACES-AGRI, CONSUMER & ENV SCIE (ACES) (p. 122)
- AERO-AEROSPACE STUDIES (AERO) (p. 123)
- AERT-AEROSPACE TECHNOLOGY (AERT) (p. 123)
- AG E-AGRICULTURAL ECONOMICS (AG E) (p. 124)
- AGRO-AGRONOMY (AGRO) (p. 124)
- AHS-ALLIED HEALTH SCIENCE (AHS) (p. 124)
- ANSC-ANIMAL SCIENCE (ANSC) (p. 125)
- ANTH-ANTHROPOLOGY (ANTH) (p. 126)
- ARAB-ARABIC (ARAB) (p. 127)
- ARCT-ARCHITECTURE (ARCT) (p. 127)
- ART-ART (ART) (p. 129)
- ASTR-ASTRONOMY (ASTR) (p. 131)
- AUTO-AUTOMOTIVE TECHNOLOGY (AUTO) (p. 131)
- AXED-AGRICULTURAL EXTN EDUC (AXED) (p. 134)

B

- B A-BUSINESS ADMINISTRATION (B A) (p. 134)
- BCHE-BIOCHEMISTRY (BCHE) (p. 134)
- BCIS-BUSINESS COMPUTER SYSTEMS (BCIS) (p. 134)
- BCT-BUILDING CONSTRUCTION TECH (BCT) (p. 134)
- BIOL-BIOLOGY (BIOL) (p. 136)
- BLAW-BUSINESS LAW (BLAW) (p. 138)
- BMGT-BUSINESS MANAGEMENT (BMGT) (p. 138)

- BOT-BUSINESS OFFICE TECHNOLOGY (BOT) (p. 140)
- BUSA-BUSINESS ADMINISTRATION (BUSA) (p. 143)

C

- C D-COMMUNICATION DISORDERS (C D) (p. 143)
- C E-CIVIL ENGINEERING (C E) (p. 143)
- C EP-COUNSELING & EDUC PSY (C EP) (p. 143)
- C J-CRIMINAL JUSTICE (C J) (p. 143)
- C S-COMPUTER SCIENCE (C S) (p. 144)
- CCDE-DEVELOPMENTAL ENGLISH (CCDE) (p. 145)
- CCDL-DEVELOPMENTAL ESL (CCDL) (p. 145)
- CCDM-DEVELOPMENTAL MATHEMATICS (CCDM) (p. 145)
- CCCR-DEVELOPMENTAL READING (CCDR) (p. 146)
- CCDS-DEVELOPMENTAL SKILLS (CCDS) (p. 146)
- CHEF-CULINARY ARTS (CHEF) (p. 147)
- CHEM-CHEMISTRY (CHEM) (p. 148)
- CHIN-CHINESE (CHIN) (p. 149)
- CHME-CHEMICAL & MATERIALS ENGR (CHME) (p. 149)
- CHSS - COMM HEALTH/SOC SRVCS (CHSS) (p. 150)
- CMI - CINEMA & FILM/VIDEO PROD (CMI) (p. 150)
- CMT-CREATIVE MEDIA TECHNOLOGY (CMT) (p. 151)
- COLL-COLLEGE (COLL) (p. 155)
- COMM-COMMUNICATION (COMM) (p. 156)
- CTFM-CLTHNG/TXTLS/FSHN MRCHDSG (CTFM) (p. 156)

D

- DANC-DANCE (DANC) (p. 156)
- DAS-DENTAL ASSISTING (DAS) (p. 158)
- DENTAL HYGINE/HYGIENIST (DHYG) (p. 159)
- DMS-DIAGNOSTIC MED SONOGRAPHY (DMS) (p. 161)
- DRFT-DRAFTING (DRFT) (p. 162)

E

- E E-ELECTRICAL ENGINEERING (E E) (p. 165)
- E S-ENVIRONMENTAL SCIENCE (E S) (p. 166)
- E T-ENGINEERING TECHNOLOGY (E T) (p. 166)
- ECED-EARLY CHILDHOOD EDUCATION (ECED) (p. 168)
- ECON-ECONOMICS (ECON) (p. 170)
- EDUC-EDUCATION (EDUC) (p. 170)
- ELA - EDUC LEADERSHIP & ADMIN (ELA) (p. 170)
- ELT - ELECTRONICS TECHNOLOGY (ELT) (p. 171)
- ENGL-ENGLISH (ENGL) (p. 172)
- ENGR-ENGINEERING (ENGR) (p. 173)
- EPWS-ETMLGY/PLNT PTHLGY/WD SCI (EPWS) (p. 173)

F

- FCS-FAMILY AND CHILD SCIENCE (FCS) (p. 174)
- FCSE-FAMILY & CONSUMER SCI EDU (FCSE) (p. 174)
- FIN-FINANCE (FIN) (p. 174)
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A E-AEROSPACE ENGINEERING (A E)

A E 102. Introduction to Aerospace Engineering

1 Credit

A survey course of aeronautical, aerospace, and astronautical engineering, with an emphasis on basic aerospace concepts and major aerospace principles without going into detailed math and analysis. Students are given the opportunity to listen to guest speakers and participate in projects utilizing the NMSU Ultralight and NMSU wind tunnel. Restricted to: Main campus only.

A S-ARTS AND SCIENCES (A S)

A S 100. Insights: University Experience for Future Careers

1 Credit

Research and investigation of college majors and career opportunities.

A S 101. Success Seminar

1 Credit

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

A S 102. Career Planning and Development

1 Credit

Individual assessment of self, the world of work, and the career decision making process.

A S 103. Quantitative Foundations

1-3 Credits (1-3)

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. Restricted to Las Cruces campus only.

A S 200. Interdisciplinary Topics

1-4 Credits

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

A ST- APPLIED STATISTICS (A ST)

A ST 251G. Statistics for Business and the Behavioral Sciences

3 Credits

Techniques for describing and analyzing data; estimation, hypothesis testing, regression and correlation; basic concepts of statistical inference. Same as STAT 251G.

Prerequisite: C- or better in MATH 120.

ACCT-ACCOUNTING (ACCT)

ACCT 101. Supplemental Instruction to ACCT 221

1 Credit

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

Corequisite(s): ACCT 221.

ACCT 200. A Survey of Accounting

3 Credits

Emphasis on financial statement interpretation and development of accounting information for management. For engineering, computer science, and other non business majors. Community Colleges only.

Prerequisite: one C S course or consent of instructor.

ACCT 221. Financial Accounting

3 Credits

Interpretation and use of financial accounting information for making financing, investing, and operating decisions.

ACCT 222. Management Accounting

3 Credits

Development and use of accounting information for management decision making.

Prerequisite(s): ACCT 221.

ACES-AGRI, CONSUMER & ENV SCIE (ACES)

ACES 101. Agricultural Leadership Development

1-3 Credits (1-3)

This course will introduce the student to skill sets necessary to engage in the process of leadership through an applied project. A broad spectrum of principles and applications associated with the College of Agricultural, Consumer and Environmental Sciences will be employed. The development of a specific project through a collaborative process will be required. Students will be engaged in hands-on, real-time experiences applicable to agriculture. Course may be repeated once. Student must have a 3.5 GPA and above. Consent of Instructor required.

ACES 111. Freshman Orientation

1 Credit

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

ACES 121. Financial Fitness for College Students

1 Credit

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

ACES 199. Academic Excellence

1-3 Credits (1-3)

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

ACES 201. Agricultural Leadership Development

1-3 Credits (1-3)

This course will introduce the student to skill sets necessary to engage in the process of leadership through an applied project. A broad spectrum of principles and applications associated with the College of Agricultural, Consumer and Environmental Sciences will be employed. The development of a specific project through a collaborative process will be required. Students will be engaged in hands-on, real-time experiences applicable to agriculture. Course may be repeated once. Student must have a 3.5 GPA and above. Consent of Instructor required.

AERO-AEROSPACE STUDIES (AERO)

AERO 121. The Air Force Today I

2 Credits (1.25+2P)

Survey course on the USAF and AFROTC. Includes mission and organization of the Air Force, officer ship and professionalism, military customs and courtesies, as well as basic communication skills. Leadership Lab practicum, AERO 000 is included.

AERO 122. The Air Force Today II

2 Credits (1.25+2P)

Continuation of AERO 121, with emphasis on Air Force officer opportunities, group leadership problems, and further development of communication skills (oral and written). Includes Leadership Lab practicum, AERO 000.

AERO 221. The Air Force Way I

2 Credits (1.25+2P)

Topics include: Air Force heritage, Air Force leaders, an introduction to ethics and values, and an application of communication skills. Facilitates the transition from Air Force ROTC cadet to Air Force ROTC candidate. Includes Leadership Lab practicum, AERO CIOD.

AERO 222. The Air Force Way II

2 Credits (1.25+2P)

Continuation of AERO 221, including an introduction to leadership, quality Air Force, and continued application of communication skills. Includes Leadership Lab practicum, AERO 000.

AERO 223. Air Force Leadership Development

1 Credit

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

AERT-AEROSPACE TECHNOLOGY (AERT)

AERT 105. Aerospace Engineering PLTW

4 Credits (2+4P)

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

AERT 111. Basic Electricity and Electronics

3 Credits (2+2P)

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

AERT 121. Introduction to the Aerospace Workplace

4 Credits (2+4P)

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

AERT 122. Aerospace Safety and Quality

3 Credits (2+2P)

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

AERT 211. Electromechanical Devices

4 Credits (2+4P)

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

Prerequisite(s): ELT 160.

AERT 212. Materials and Processes (Basic Metallurgy)

3 Credits (2+2P)

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

AERT 213. Aerospace Fluid Systems

3 Credits (2+2P)

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

AERT 214. Aerospace Systems

3 Credits (2+2P)

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

AERT 221. Inspection Requirements and Planning Metrology

3 Credits (2+2P)

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

AERT 222. Electromechanical Systems

3 Credits (2+2P)

Principles and applications of preventive and corrective maintenance procedures on industrial production machines using systems technical and maintenance manuals to develop troubleshooting procedures using systems block and schematic diagrams. Pre/ Crosslisted with: MAT 245.

Prerequisite(s)/Corequisite(s): AERT 221 or MAT 240. Prerequisite(s): ELT 160.

AERT 224. Aerospace Tests and Measurements

3 Credits (2+2P)

This course covers electrical and mechanical testing procedures (primarily non-destructive testing), equipment, measurements, and instrumentation involved in aerospace systems. Verification of tool and equipment calibration is also covered. Pre/ Restricted to: Community Colleges only.

Corequisite(s): AERT 221.

AERT 225. Cooperative Experience**1-3 Credits (1-3)**

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

AERT 255. Special Topics**1-4 Credits (1-4)**

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

AERT 290. Independent Study**1-3 Credits (1-3)**

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

AG E-AGRICULTURAL ECONOMICS (AG E)

AG E 100. Introductory to Food and Agribusiness Management**3 Credits**

Orientation to agricultural supply businesses, farm and ranch production, food markets, food processing and distribution, and food consumption. Microeconomic principles for managers. May be repeated up to 3 credits.

AG E 101. Careers in Food and Agribusiness**1 Credit**

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

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

AG E 200. Special Topics**1-4 Credits**

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

AG E 210G. Survey of Food and Agricultural Issues**3 Credits**

Survey of food and agricultural issues, including: geography of food production and consumption; human-agricultural-natural resource relations; agriculture in the United States and abroad; modern agribusiness; food safety; food, agriculture, and natural resources policy; ethical questions; role and impact of technology. Crosslisted with: FSTE 210G.

AG E 236. Principles of Food and Agribusiness Management**3 Credits**

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

AG E 250. Technology and Communication for Business Management**3 Credits (2+2P)**

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

AG E 260. Introduction to Food and Agribusiness Accounting**3 Credits**

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

AGRO-AGRONOMY (AGRO)

AGRO 100G. Introductory Plant Science**4 Credits (3+2P)**

Introduction to the physical, biological, and chemical principles underlying plant growth and development in managed ecosystems. In the laboratory portion of the class, students perform experiments demonstrating the principles covered in lecture. The course uses economic plants and agriculturally relevant ecosystems to demonstrate basic principles. Appropriate for nonscience majors. Same as HORT 100G.

AGRO 200. Special Topics**1-4 Credits (1-4)**

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

AGRO 250. Plant Propagation**3 Credits (2+2P)**

Practical methods of propagating horticultural plants by seed, cuttings, layering, grafting, division and tissue culture. Examination of relevant physiological processes involved with successful plant propagation techniques. Crosslisted with HORT 250.

AGRO 257. 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. Consent of instructor required. Crosslisted with: GEOG 257 and SOIL 257.

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 108. Disabilities Support Services**4 Credits (3+2P)**

Beginning level preservice preparation for providing in-home care for individuals with disabilities. Restricted to: Community Colleges only. Crosslisted with: NA 108

AHS 115. Dietary Guidelines & Meal Planning**4 Credits**

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

AHS 116. Math for Health Occupations**3 Credits**

Principles of math and pharmacology necessary for administration of medications. Restricted to: Community Colleges only.

Prerequisite(s): CCDM 114N or equivalent.

AHS 120. Medical Terminology**3 Credits**

Study of medical terminology as it relates to understanding diseases, their causes and effects, and the terminology used by the medical specialties. Stress is placed on medical terms, their use, spelling, English translation, and pronunciation. Same as NURS 150 and BOT 150.

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

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

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

Survey of human anatomy and physiology.

Prerequisite: high school biology or high school chemistry, or CHEM 110G, or consent of instructor.

AHS 155. Special Topics**1-6 Credits**

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 6 credits.

AHS 165. Foundations to Allied Health Science**3 Credits (1+4P)**

A foundational course which will cover a multidisciplinary focus on success in the Allied Health care environment. Topics included, but not limited to: the health care system, personal and professional qualities of a health care worker, legal and ethical responsibilities, cultural diversity, nutrition and diets, medical math, infection control, preparing for the world of work, core measures and quality assurance, the prospective payment system, customer service, current trends in health care and communication, and promotion of safety. Laboratory time will cover library and library resource use, promotion of safety, vital sign, CPR & AED use, job interviewing practice, and 16 hours of job shadowing participation located in a healthcare facility. Open to all students seeking to pursue an Allied Health or Healthcare career pathway. Restricted to Community Colleges campuses only.

AHS 190. Clinical Skills & Concepts for Medical Assisting I**6 Credits (3+6P)**

A core course designed to provide an introduction to the theory, concepts, and skills needed for entry-level medical assisting positions. Content includes basic theory and concepts designed to support safe and effective practice as a medical assistant in ambulatory care settings. Includes a skills laboratory for hands-on practice and 96 hours of supervised clinical in the work environment. Restricted to Community Colleges campuses only.

Prerequisite(s): (BIOL 225 and 226) or (AHS 153 and 154).

AHS 202. Legal and Ethical Issues in Health Care**3 Credits**

Consideration of legal and ethical issues in modern health care delivery.

AHS 220. Essentials of Counseling**3 Credits**

Provides students interested in human services professions with theoretical and practical tools and strategies to establish and develop a helping relationship with clients in a diversity of helping settings. Class covers emotional, cognitive, socio-cultural, and spiritual aspects of the human being, that help clients identify and deal with issues that affect their functioning and development. Restricted to Community Colleges only.

AHS 250. SPANISH FOR HEALTH PROFESSIONALS**3 Credits**

Spanish for Health Professionals is a 3 credit course geared toward individuals working or majoring in health related areas. The course focus is on conversation and vocabulary needed for the workplace and task based practical skills. Restricted to: Community Colleges only.

AHS 253. Microbiology for Health Occupations**4 Credits (3+3P)**

Study of the relationship between pathogenic organisms and disease processes.

Prerequisites: high school biology and high school chemistry, CHEM 110G, and OEHO 153 or equivalent or consent of instructor.

Corequisite: OEHO 154 or equivalent.

AHS 290. Clinical Skills & Concepts for Medical Assisting II**6 Credits (3+6P)**

A core course designed to provide the theory, concepts, and skills needed in preparation for entry-level medical assisting positions. Content includes theory and concepts related to specialty areas of healthcare practice, as well as consideration for conditions affecting persons throughout the life span. The course includes a skills laboratory for hands-on practice and 96 hours of supervised clinical in the work environment with specialized populations and procedures in both ambulatory and acute care settings. Restricted to Community Colleges campuses only.

Prerequisite(s): AHS 190.

AHS 295. Introduction to Allied Health**1 Credit**

An introductory course that covers a multidisciplinary focus needed for success in the allied health care environment. Topics include health care delivery systems and allied health careers, history of health care, law and ethics pertaining to health care, personal qualities of health care workers, confidentiality and reportable incidents. This course will also cover an orientation into safety and infection control, core measures and quality assurance, perspective payment system, customer service, current trends in health care and communication, skills to be a patient/client educator and a member of the Health Care team. Open to all students wanting to explore the allied health care industry. Restricted to Community Colleges campuses only.

ANSC-ANIMAL SCIENCE (ANSC)

ANSC 100. Introductory Animal Science**3 Credits**

Orientation and survey of livestock industry in the United States; introduction to feeding, breeding, and management practices for producing farm animals and select companion animals.

ANSC 100 L. Introductory Animal Science Laboratory**1 Credit**

Students will observe and participate in activities related to farm animal management and will include areas of livestock selection, nutrition, reproductive physiology, animal ID and animal health. This lab is required for animal science majors. Pre/

Corequisite(s): ANSC 100.

ANSC 103. Introductory Horse Science**3 Credits (2+2P)**

The light horse industry; breeds; introduction to feeding, breeding, marketing and management; handling and selecting horses for breeding and performance.

ANSC 112. Companion Animals in Society**3 Credits**

Examination of the historical, current, and potential future roles of companion animals in human society. Topics include animal domestication, breeds, exotic companion animals, the companion animal industry, and competitions and sports involving companion animals. Emphasis is on canine and feline species. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

ANSC 190. Western Equitation I**2 Credits**

Basic principles of Western riding, including care and management of the riding horse, equitation equipment, and development of riding skills.

ANSC 200. Introduction to Meat Animal Production**3 Credits (2+2P)**

Production and utilization of beef cattle, sheep and swine; emphasis on feeding, breeding, management problems and marketing; selection of animals for breeding and market.

ANSC 201. Introduction to Genetics for Animal Production**3 Credits**

Introduction to genetics and inheritance relative to livestock production. Introduction to procedures for collection and use of performance information in livestock improvement programs.

Prerequisites: BIOL 111G.

ANSC 220. Animal Science Career Development**1 Credit**

Introduction to scientific disciplines and career options in animal-agriculture career-skill development, including resume preparation, networking, importance of internships, and leadership experiences in animal agriculture.

ANSC 250. Special Topics**1-4 Credits**

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

ANSC 261. Introduction to Animal Metabolism**3 Credits**

Principles underlying the mechanisms of animal metabolism as they relate to production, maintenance, and health of animals.

Prerequisite: CHEM 111G.

ANSC 262. Introduction to Meat Science**3 Credits (2+3P)**

Fundamental aspects of the red meat industry. Lecture topics and laboratory exercises include the nutrient value of meat, meat preservation, meat safety, muscle structure and contraction, slaughter and processing of beef, lamb, and pork, sausage manufacture, meat curing, meat cookery, and muscle and bone anatomy.

ANSC 285. Introduction to Companion Animal Science**3 Credits**

Introduction to the care of common companion animal species. Species specific housing and nutrition are covered in the context of maximizing animal health and well-being and reducing disease. May be repeated up to 3 credits.

ANSC 288. Horse Fitting and Selling**3 Credits**

Preparation of horses for sale; planning and conduct of auction sale; application of marketing principles relating to selling horses.

Prerequisite: ANSC 103 or consent of instructor.

ANSC 289. Management of Equine Operations**3 Credits**

Introduction and application of business skills necessary to effectively manage the equine operation. Students will learn how to use strategic thinking and sound business management practices to succeed in the demanding equine industry.

Prerequisite(s): ANSC 103 or consent of instructor.

ANSC 290. Western Equitation II**2 Credits**

Intermediate principles of Western riding, including reading horse behavior, limbering-up exercises, and developing riding skills. Introduction to rollbacks, turnarounds and stops.

Prerequisite: consent of instructor.

ANSC 295. Team Competition in Animal Science**1-2 Credits**

Training in team competition in the animal sciences. May be repeated for a maximum of 6 credits. May be repeated up to 6 credits. Consent of Instructor required.

ANTH-ANTHROPOLOGY (ANTH)

ANTH 110. North American Prehistory**3 Credits**

Introduction to major prehistoric cultural developments and changes in North America from the first entry of people into the New World until prior to the arrival of European settlers. Restricted to Community Colleges campuses only.

ANTH 115. Native Peoples of North America**3 Credits**

General survey of the ethnology of selected native American groups.

ANTH 116. Native Peoples of the American Southwest**3 Credits**

Introduction to the early history and culture of native people of the Southwest.

ANTH 118. Introduction to Historic Preservation**3 Credits**

Introduction to historic preservation, its history, goals, methods, legal basis, and economic importance. Explores public role in decision-making. Community Colleges only.

ANTH 120G. Human Ancestors**3 Credits**

Evolutionary history of the human species from its origin in the primate order, with primary emphasis on the evolution of humankind during the past three million years. Examination of the social lives of apes and consideration of similarities to and differences from them. Biological foundations of human behavior, emphasizing thought, movement, and interaction.

ANTH 125G. Introduction to World Cultures**3 Credits**

Examine cross-cultural diversity and human universals through the lens of anthropological inquiry. Explore human thought and behavior in contemporary world cultures covering kinship, economic patterns, power structures, and religious practices and beliefs. The impact of cultural influence on everyday life is emphasized.

ANTH 130G. Human's Place in Nature: Introduction to Biological Anthropology**3 Credits**

This course uses scientific methods and principles to examine human evolutionary history and family tree relationships, as well as the biological foundations of human behavior. Through lectures, readings and laboratory assignments students are introduced to the history and development of modern evolutionary biology, molecular and population genetics, the primate and human fossil record and modern human biological diversity. By examining the social lives of apes and other primates, primitive and unique aspects of human behavior are identified and the lives of fossil ancestors are reconstructed.

Corequisite(s): ANTH 130GL.

ANTH 130GL. Human's Place in Nature Laboratory**1 Credit**

This one credit laboratory course uses scientific methods and principles to examine evidence for human evolutionary history and family tree relationships, primate ecology and behavior, and modern human diversity.

ANTH 201G. Introduction to Anthropology**3 Credits**

Exploration of human origins and the development of cultural diversity. Topics include biological and cultural evolution, the structure and functions of social institutions, belief systems, language and culture, human-environmental relationships, methods of prehistoric and contemporary cultural analysis, and theories of culture.

ANTH 202G. Introduction to Archaeology and Physical Anthropology**3 Credits**

Provides an introduction to the methods, theories, and results of two subfields of anthropology: archaeology and physical anthropology. Archaeology is the study of past human cultures. Physical anthropology is the study of human biology and evolution.

ANTH 203G. Introduction to Language and Cultural Anthropology**3 Credits**

Provides an introduction to the methods, theories, and results of two subfields of anthropology: linguistics and cultural anthropology. Linguistics is the study of human language. Cultural anthropology is the study of the organizing principles of human beliefs and practices.

ANTH 297. Elementary Special Topics**1-4 Credits**

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

ARAB-ARABIC (ARAB)**ARAB 111. Elementary Arabic I****4 Credits**

Arabic language for beginners.

ARAB 112. Elementary Arabic II**4 Credits**

Arabic language for beginners.

Prerequisite: C- or better in ARAB 111.

ARAB 211. Intermediate Arabic I**3 Credits**

Speaking, reading and writing.

Prerequisite: C- or better in ARAB 112.

ARAB 212. Intermediate Arabic II**3 Credits**

Speaking, reading and writing.

Prerequisite: C- or better in ARAB 211.

ARCT-ARCHITECTURE (ARCT)**ARCT 101. Introduction to Architecture****3 Credits (2+2P)**

This course provides students the tools and vocabulary to analyze, interpret, and discuss the built environment from the social, historical, perceptual, and technical determinants. Lectures and assignments will introduce students to the elements of current and likely future directions of architecture from experiential, aesthetic, structural, functional, and historical perspectives. The course will provide students with knowledge about the people and processes involved with professional issues of architectural practice. Students will be required to participate in individual and group presentations and projects, as well as compile a portfolio of their work completed in the course.

ARCT 104. Introduction to Architectural Drawing**4 Credits (2+4P)**

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. Direct linkages with the Introduction to Architecture course provide exposure to a wide range of interconnected architectural concepts.

ARCT 111. Architecture World History I**3 Credits (2+2P)**

A survey of the development of world architecture from the ancient era to the advent of the enlightenment in Europe. Major emphasis is on the visual, intellectual, cultural and technological aspects of the ancient and indigenous cultures of the classical and pre-modern world. Community Colleges only. Restricted to Alamogordo, Dona Ana and Grants campuses.

ARCT 124. Global Issues and Sustainability**3 Credits**

This is a 'critical thinking' course. This course introduces students 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. Through extensive readings, research, dialogue, and debates, students will establish a personal position (opinion) on each of the topics covered. Guest speakers will also be invited. Students will develop reports and presentations on various related issues, as well as develop ideas for solutions to problems related to environmental issues. The impact on the design and construction industry, including 'Green Building' and 'LEED Accreditation and Certification/Criteria' will also be addressed on each issue. Restricted to Community Colleges only.

ARCT 150. Orientation and Mentoring in Architecture-Construction-Engineering (ACE)**1-6 Credits (1-6)**

This course is intended for high school dual credit students and college/university students wishing to explore careers in Architecture, Construction, and Engineering(ACE), which includes the specific fields of Architectural, Civil, Mechanical, Structural, Interior, Landscape, Sustainability, Environmental. Course is co-taught by a college instructor in conjunction with mentors who are local professionals in the fields of ACE. Students receive one-on-one mentoring, lectures, demonstrations, and attend field trips to construction sites, offices of Architects, Engineers and Designers, etc. Students also engage in hands-on activities such as Design (Architectural, Civil, Mechanical, Structural, Interior, Landscape, Environmental), analysis, model building, software, and research topics related to the ACE fields, as well as Sustainability, Interior Design, Landscape Design, Construction Materials and Fabrication processes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

ARCT 154. Introduction to Architectural Design**3 Credits (2+2P)**

This course provides students who possess a basic background in architecture and architectural drawing with an introduction to architectural design. Students are guided through a series of spatial and analytical exercises that focus attention on two dimensional, three dimensional, and four dimensional design. This course will build on direct linkages to ARCT 101 and ARCT 104 to further students' exposure to interconnected architectural concepts of process, organizational strategies, and analysis of material methodology while utilizing abstract and practiced graphical architectural conventions. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): ARCT 101 and ARCT 104.

ARCT 170. 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.

ARCT 204. Architectural Design Studio I**5 Credits (1+8P)**

Enhancement of general graphic communication skills and introduction to fundamental design including exploration, development and defense of design concepts; structural order; 2D and 3D processes in manual and digital architectural graphic expression; model building; general communication and presentation techniques; and development of course portfolio. Course is Studio/critique-based with considerable amount of work/hours required. This course is designed to be taken during student's last year in the Pre-Architecture program at DACC. Consent of Instructor required. Restricted to Community Colleges only.

Prerequisite(s): Grade of B- or better in both ARCT 101 and ARCT 104.

ARCT 210. 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.

ARCT 211. Architectural World History II**3 Credits (2+2P)**

A survey of the development of world architecture from the enlightenment in Europe to the present. Community Colleges only. Restricted to Alamogordo, Dona Ana and Grants campuses.

Prerequisite(s): ARCT 111 or consent of instructor.

ARCT 224. Sustainable Design in Architecture**3 Credits**

This course provides students with hands-on opportunity to increase their awareness in, and respond to the issues of responsible environmentally friendly building design by engaging in an integrated design process combining 'Traditional Design Process' with 'Sustainable Environmental Design' strategies. Students will expand their awareness of global environmental impacts due to design and construction, and gain knowledge in the industry's leading design 'tool' LEED (Leadership in Energy and Environmental Design) green building design rating system. LEED strategies will be utilized in the design of individual projects apply LEED in practical, individual design development, and develop an integrated building model utilizing the concept of BIM (Building Information Modeling). Such project development will require learning a basic design process and specific sequence including conceptual design, schematic design, design development and BIM (utilizing a BIM software such as REVIT, or AutoCad Architecture). Restricted to Community Colleges only.

Prerequisite(s): DRFT 109 or DRFT 165 or consent of instructor.

ARCT 250. Construction Documents**3 Credits (2+2P)**

Basic use of CAD 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. Pre/ Restricted to: Community Colleges only.

Corequisite(s): DRFT 109.

ARCT 254. Architectural Design Studio II**5 Credits (1+8P)**

Advanced graphic communication, design, and 3D physical model representation. Focus on site analysis, programming and fundamental design issues of context, environment, program development and space planning, 2D and 3D design and presentation techniques. Course is 'Studio/critique-based' with considerable amount of outside work/hours required. 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 ARCT 204.

ARCT 260. Architectural Delineation**3 Credits (2+2P)**

Continuation of ARCT 210 with an emphasis in color media.

Prerequisites: ARCT 210.

ARCT 274. LEED Accreditation Exam Prep**3 Credits**

This course is intended for anyone in the construction or architectural design fields who is interested in learning more about green building and the LEED (Leadership in Energy and Environmental Design) strategies, and are also interested in learning about how to become LEED accredited. Overview of the LEED rating systems utilized in the design and operation of buildings, the various LEED building certifications, and accreditation requirements for professionals. Highlights include interpretation of the LEED Reference Guides, accepted strategies for meeting LEED certification, sample practice exams, integrated project delivery methods, and a practical approach to problem solving through the use of design problems. Restricted to Community Colleges only.

ARCT 290. Special Topics**1-6 Credits**

Topics subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

ARCT 291. Cooperative Experience**1-6 Credits**

Supervised cooperative work program. Student employed in approved occupation; supervised and evaluated by employer and instructor. Student meets weekly with instructor. Graded S/U.

Prerequisite: consent of instructor.

ARCT 295. Professional Development and Leadership-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.

ART-ART (ART)

ART 101G. Orientation in Art**3 Credits (2+3P)**

A multicultural examination of the principles and philosophies of the visual arts and the ideas expressed through them.

ART 110G. Visual Concepts**3 Credits (2+4P)**

Introduction to the philosophies of art, visual thinking, and principles of visual organization. Designed to give students a broad view of aesthetic traditions, ideologies, and techniques basic to the creation and evaluation of art. Principles and concepts are taught in a common lecture and applied in parallel small studio sections. For non-art majors only.

ART 150. Drawing I**3 Credits (2+4P)**

Introduction to the skill of seeing through exercises that emphasize careful drawing from the still life and utilize a range of drawing materials and techniques. Outside assignments required. Intended for non-art majors on main campus. May be repeated up to 3 credits.

ART 151. Drawing II**3 Credits (2+4P)**

Continued emphasis on drawing from observation by focusing on still life and other subject matter. Covers a range of materials, techniques and concepts. Outside assignments. Restricted to ART and ANVE/DFM majors.

Prerequisite(s): ART 150.

ART 155. 2-D Fundamentals**3 Credits**

Introduction to two-dimensional space emphasizing visual elements and design principles as they apply to composition. A variety of materials are used in the studio projects and sketchbook exercises. Developing knowledge in vocabulary, color theory and skill in translating ideas into design are encouraged. Restricted to Community Colleges campuses only.

ART 156. 3-D Fundamentals**3 Credits**

Compositional organization of three-dimensional space explored through a broad range of visual exercises. Resourceful and creative problem solving encouraged. Restricted to Community Colleges campuses only.

ART 157. Color Theory**3 Credits (2+4P)**

Various color theories as they relate to compositional organization. Required for art education majors.

ART 160. Computer-Based Illustration**3 Credits (2+4P)**

Introduction to the principles of computerized drawing and design. Using the basic concepts, drawing tools, and vocabulary of Adobe Illustrator.

Prerequisite: ART 150, ART 155, or consent of instructor.

ART 161. Digital Imaging I**3 Credits (2+4P)**

Work with basic concepts, tools, and vocabulary of Adobe Photoshop to create effective visual communication. Includes selection tools, cloning, copying and pasting, color correction, image restoration, filters, and special effects. Community Colleges only.

ART 163. Digital Graphics**3 Credits (2+4P)**

Importing and exporting images and text into various desktop publishing formats. Exploring imaging, drawing, and page layout applications. Introduction to typography.

Prerequisite: ART 161.

ART 165. Web Page Design**3 Credits (2+4P)**

Introduction to the creation of well-designed and organized Web sites. Emphasis on building creative but functional user-friendly sites. Introduction to HTML, Flash, Java Script, and Web-authoring software. Community Colleges only. Same as OEPT 165.

Prerequisite: ART 161.

ART 250. Introduction to Drawing**3 Credits (2+4P)**

Introduction to drawing with a focus on technical, structural, and methodological skills. Subjects include still life and live figure models.

ART 252. Aspects of Drawing**2-3 Credits**

Continued work in drawing with emphasis on personal creative endeavor. Community Colleges only.

Prerequisites: ART 150, ART 151, and ART 250.

ART 255. Introduction to Graphic Design**3 Credits (2+4P)**

Introduction to the principles of visual communication and digital media, letterforms, typography and identity marks. Projects produced using conventional and digital tools.

**ART 256. Introduction to Letter Forms and Typographic Design
3 Credits (2+4P)**

Introduction to letter forms, typography and identify marks. Projects produced using conventional and digital graphic designer tools.

Prerequisite(s): ART 155.

**ART 260. Introduction to Painting
3 Credits (2+4P)**

Introduction to basic skills of painting through various exercises that emphasize working from observation, images and imagination. May be repeated up to 3 credits.

Prerequisite(s): ART 250 or ART 150.

**ART 261. Painting Methods, Techniques and Applications
3 Credits (2+4P)**

The investigation of formal aspects of painting, an examination of painting techniques, and an exploration of various methodologies regarding form and content as applied to critical thinking skills through medium of paint.

Prerequisite(s): ART 150, ART 260.

**ART 262. Aspects of Painting
2-3 Credits**

Varied painting media: continued development of painting skills.

Prerequisites: ART 150, ART 155 (for art majors), ART 260, or consent of instructor.

**ART 265. Introduction to Sculpture
3 Credits (2+4P)**

Beginning sculpture students "explore space" while learning new processes and skills, including mold making, welding and woodworking.

**ART 266. Go Figure: The Body in Contemporary Art
3 Credits (2+4P)**

Cultivation of individual direction through constant creative action. Emphasis on self-styled assignments. Rotating themes pertinent to contemporary sculpture supplement aesthetic and conceptual awareness. Restricted to: Main campus only.

**ART 267. Art Portfolio Preparation
3 Credits (2+4P)**

Refine general marketing strategies, personal portfolio and resumes. Define, target, and penetrate personal target markets. Students develop individual promotional packages.

Prerequisites: ART 163, ART 269, and ART 272, or consent of instructor.

**ART 269. Advanced Computer-Based Illustration
3 Credits (2+4P)**

Design custom graphics and create special effects with filtering, special effects on type, graphing, technical illustrations, and three-dimensional drawing using Adobe Illustrator.

Prerequisites: ART 157, ART 160, and ART 161, or consent of instructor.

**ART 270. Introduction to Photography
3 Credits (2+4P)**

Introduction to the production of digital images within the context of contemporary art. Utilizes digital SLR cameras with an emphasis on basic camera operation, picture composition, image processing and digital workflow. A DSLR camera is required. May be repeated up to 3 credits.

**ART 271. Introduction to Film and Darkroom
3 Credits (2+4P)**

Introduction to silver based photographic materials, film development, enlargement printing and darkroom work. Students will work with a range of cameras including: medium format, toy and pinhole. Emphasis on understanding the syntax of silver halide photographic materials. Development of conceptual vocabulary and the creation of images with thematic unity. May be repeated for a maximum of 6 credits.

Prerequisite(s): ART 270.

**ART 272. Digital Imaging II
3 Credits (2+4P)**

Refining of individual creative styles and technical skills using Adobe Photoshop. Emphasis on input and output predictability, and working with large file productions. Community colleges only. Restricted to: Community Colleges only.

Prerequisite(s): ART 161.

**ART 274. Digital Capture and Output
3-9 Credits (3-9)**

Digital workflow, scanning, image processing software, digital printing, color management. Advanced digital printing skills. Emphasis on understanding the syntax of digital photographic processes. Development of conceptual vocabulary and the creation of images with thematic unity. Consent of instructor required. Restricted to ART majors.

**ART 275. Introduction to Ceramics
3 Credits (2+4P)**

Introduction to the technical processes and conceptual concerns of working with the ceramic material. Students will explore various methods of forming with earthenware to make both functional and expressive works out of clay.

**ART 276. Ceramics I, B
3 Credits (2+4P)**

Beginning ceramics, complementary half to ART 275. (ART 275 and ART 276 do not need to be taken consecutively.) Basic building techniques of coil, slab, and throwing are introduced. High-fire and low-fire clays are used.

**ART 280. Introduction to Printmaking
3 Credits (2+4P)**

Introduction to the field of printmaking through projects that focus on specific processes, such as relief, intaglio, collography, paper lithography, and a variety of transfer and stencil techniques. Students engage in several assignments that are collaborative, as well as individual projects designed for development of personal aesthetics.

**ART 281. Printmaking II
3 Credits (2+4P)**

Printmaking materials and techniques, with emphasis in intaglio and relief procedures.

Prerequisites: ART 150, ART 156 (for ART majors) and 280.

Corequisite: ART 150.

**ART 285. Introduction to Metals and Jewelry
3 Credits (2+4P)**

Introduction to fundamental processes, design, and conceptual development for metal fabrication of jewelry and functional/non-functional objects.

**ART 286. Stained Glass
3 Credits (2+4P)**

Instruction in the fundamental fabrication and design techniques for stained glass. Introduction to visual decision making skills, historical, and critical issues of the medium. Community Colleges only.

ART 294. Special Topics in Studio**1-3 Credits**

Specific subjects and credits to be announced in the Schedule of Classes. No more than 9 credits toward a degree.

Prerequisite: consent of instructor.

ART 295G. Introduction to Art History I**3 Credits**

An introduction to the principles of art history within a chronological framework of the art of the Western World. All media will be discussed. From prehistoric times to the fourteenth century.

ART 296G. Introduction to Art History II**3 Credits**

Continuation of ART 295, Art of the Western World from Late Gothic to the present. May be repeated up to 3 credits.

ART 298. Writing in Art**3 Credits**

This reading- and writing-intensive course will introduce students to various approaches of writing about historical art.

ASTR-ASTRONOMY (ASTR)

ASTR 105G. The Planets**4 Credits (3+2P)**

Comparative study of the planets, moons, comets, and asteroids which comprise the solar system. Emphasis on geological and physical processes which shape the surfaces and atmospheres of the planets. Laboratory exercises include analysis of images returned by spacecraft. Intended for non-science majors, but some basic math required. This lecture/lab course satisfies the New Mexico Common Core Area III: Lab Sciences requirement

ASTR 110G. Introduction to Astronomy**4 Credits (3+2P)**

A survey of the universe. Observations, theories, and methods of modern astronomy. Topics include planets, stars and stellar systems, black holes and neutron stars, supernovas and gaseous nebulae, galaxies and quasars, and cosmology. Emphasis on physical principles involving gravity, light and optics (telescopes). Generally non-mathematical. Laboratory involves use of the campus observatory and exercises designed to experimentally illustrate principles of astronomy. This lecture/lab course satisfies the New Mexico Common Core Area III: Lab Sciences requirement.

ASTR 199. Introduction to Astronomy Lab, Special**1 Credit**

This lab-only listing exists only for students who may have transferred to NMSU having taken a lecture-only introductory astronomy class, to allow them to complete the lab requirement to fulfill the general education requirement. Consent of Instructor required. , at some other institution). Restricted to Las Cruces campus only.

Prerequisite(s): Must have passed Introduction to Astronomy lecture-only (e.g.

AUTO-AUTOMOTIVE TECHNOLOGY (AUTO)

AUTO 102. Electrical Measuring Instruments**2 Credits (1+2P)**

Selection, operation, and care of electrical measuring instruments.

AUTO 103. Auto Mechanics Fundamentals**4 Credits (2+4P)**

Theory and operation of all areas of auto mechanics. Basic repair and maintenance operations.

AUTO 105. Welding**4 Credits (2+4P)**

Set-up and adjustment of oxyacetylene and arc welding equipment, identification of metals and rod application. Skill development in laying weld beads and different weld positions.

AUTO 111. Automotive Mechanics Basics**4 Credits**

Basic maintenance procedures of the major components of the automobile using service repair manuals, hand and power tools, precision measurement equipment, fasteners and chemicals. Restricted to: Community Colleges only.

AUTO 112. Basic Gasoline Engines**5 Credits (2+6P)**

Principles of gasoline engine operation. Identification, design, function of engine components; engine disassembly and reassembly; trouble shooting, and rebuilding heads.

AUTO 113. Automotive Electricity and Electronics PT I**4 Credits (2+4P)**

Topics include mastery of DC electricity, use of digital multimeters, troubleshooting electrical problems in starting, charging and accessory systems. Restricted to Community Colleges only.

AUTO 114. Automotive Electricity and Electronics PT II**4 Credits (2+4P)**

Advanced AC and DC automotive electronic circuits. Troubleshooting electronically controlled components including supplemental restraint systems and convenience accessories. Restricted to Community Colleges only.

AUTO 115. Automotive Engine Repair**5 Credits (2+6P)**

Principles of gasoline engine operation. Identification of engine parts, operation, and function. Disassembly and reassembly. Engine problem diagnoses (cooling system, lubrication system, engine noises). Restricted to Community Colleges only.

AUTO 117. Electronic Analysis and Tune-Up of Gasoline Engines**5 Credits (2+6P)**

Theory and operation of ignition and emission control systems and fuel system. Use of troubleshooting equipment and diagnostic equipment.

Prerequisite: AUTO 120 or consent of instructor.

AUTO 118. Technical Math for Mechanics**3 Credits (2+3P)**

Mathematical applications for the automotive trade.

AUTO 119. Manual Transmission/Clutch**5 Credits (2+6P)**

Manual transmission, transfer cases, and clutch operating principles. Students will diagnose problems, remove and replace, disassemble, repair, and assemble units.

AUTO 120. Electrical Systems**4 Credits (2+4P)**

Troubleshooting and repair of starters, alternators, and associated circuits. Reading electrical diagrams, diagnosis and repair of electrical accessories.

Prerequisite: consent of instructor.

AUTO 122. Automotive Brakes**4 Credits (2+4P)**

Focus is on theory, diagnosis, and service of drum, disc, and anti-lock braking systems, brake component machining, hydraulic component reconditioning, friction and hardware replacement. Restricted to Community Colleges only.

AUTO 124. Automotive Heating and Air Conditioning**4 Credits (2+4P)**

R12 and R134A air conditioning systems maintenance diagnosis and repair. R12 to R134A conversion procedures. Troubleshooting automatic temperature controls and leak detection. Restricted to Community Colleges only.

AUTO 125. Brakes**5 Credits (2+6P)**

Theory of operation, diagnosis, repair, and maintenance of disc and drum brakes; safety and use of special tools.

AUTO 126. Suspension, Steering, and Alignment**5 Credits (2+6P)**

Types of steering systems, suspension maintenance and repair, four-wheel alignment procedures.

AUTO 127. Basic Automatic Transmission**4 Credits (2+4P)**

Theory and operation of the automatic transmission; maintenance, troubleshooting, diagnosis, and repair of components.

AUTO 129. Automotive Steering and Suspension**4 Credits (2+4P)**

Diagnosis/service of suspension components including shocks, springs, ball joints, manual and power steering systems and four wheel alignment are some areas covered. Restricted to Community Colleges only.

AUTO 130. Introduction to Transportation Industry**3 Credits**

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 155. Bio-Diesel Fuels**5 Credits (2+6P)**

Covers theory and operation of Bio-Diesel fuel powered vehicles. Blends of bio-diesel and conventional hydrocarbon-based diesel products most commonly distributed for use in the retail diesel fuel marketplace will be discussed. Production, installation, services, and repair will be discussed in detail. Pre/ Restricted to: Community colleges.

Prerequisite(s): AUTO 107, AUTO 112, and AUTO 139.

Corequisite(s): AUTO 117 and AUTO 119.

AUTO 160. Hybrid Electric Vehicles**4 Credits (2+4P)**

Covers theory and operation of electrically powered vehicles.

Troubleshooting, reading and interpretation of electrical diagrams will be discussed in full detail. Repair and operation procedures will also be covered. Pre/ Restricted to: Community colleges.

Prerequisite(s): AUTO 107, AUTO 112, and AUTO 139.

Corequisite(s): AUTO 117 & AUTO 119.

AUTO 161. Non-Structural Repair**4 Credits (2+4P)**

This basic auto body course is designed to develop the students understanding of general shop safety using hand tools, pneumatic tools and power tools. This course will also cover straightening fundamentals, plastic and composite repair, panel replacement, and adjustments.

Prerequisite(s): AUTO 190.

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 emphasis on time efficiency. This course will involve the student in all areas of major collision damage repair. The student will be exposed to all applicable I-CAR industry procedures and standards involved in sheet metal and composite panel repair.

Prerequisite(s): AUTO 164.

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 207. Power Train Removal and Replacement**4 Credits**

Course reviews the removal and installation of major automotive components including the engine assembly, transmission assembly, differential and four wheel drive units. Restricted to: Community Colleges only.

AUTO 208. Introduction to Alternative Fueled Vehicles**3 Credits**

Course will familiarize student with conditions that are resulting in the alternative fueled vehicle movement as well as the design and safety precautions unique to each alternative fuel. Propulsion systems covered include electric vehicles, bio-fueled vehicles, hybrid-electric vehicles and hydrogen powered vehicles, along with other emerging technologies as appropriate. Restricted to: Community Colleges only.

Prerequisite(s): AUTO 113 and AUTO 114.

AUTO 209. Hybrid Vehicle Service Techniques**3 Credits**

Designed for experienced automotive technicians, this course will cover safety procedures, design, operational overview and service techniques as well as minor diagnosis and repair of all classifications of hybrid-electric vehicles. Each student must possess legal Class 'O' high voltage gloves and liners to attend this class. Restricted to: Community Colleges only.

Prerequisite(s): AUTO 113 and AUTO 114.

AUTO 221. Cooperative Experience I**1-6 Credits**

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

AUTO 255. Special Problems in Automotive Technology**1-5 Credits**

Individual studies in areas directly related to automotive technologies. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

AUTO 295. Special Topics**1-6 Credits**

Topics to be announced in the Schedule of Classes.

AXED-AGRICULTURAL EXTN EDUC (AXED)

AXED 100. Introduction to Agricultural, Extension, and Technology Education

3 Credits

Orientation to programs, philosophies, competencies and leadership skills needed by professionals in agricultural and technology education, extension education, agricultural communications, and related career opportunities in industry, governmental agencies, and international organizations.

AXED 105. Techniques in Agricultural Mechanization

3 Credits (2+2P)

Development of competencies in agricultural mechanics including safety, tool identification, operation and maintenance of hand and power tools, cold metal, drafting, and plumbing procedures. Designed for any major wishing to improve mechanical skills needed in agriculturally related occupations in education and industry.

AXED 200. Special Topics

1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 6 credits toward degree.

AXED 201G. Effective Leadership and Communication in Agricultural Organizations

3 Credits (2+2P)

Theory and practice in leadership and communication for professionals who must work effectively in leadership and supervisory roles with people in agricultural business, industry, government agencies, and education. Course focuses on contemporary leadership theories. Oral communication skills in informative and persuasive speaking, parliamentary procedure, and for small groups are developed.

AXED 205. Metal Technology-Fabrication

3 Credits (2+4P)

Processes and procedures of metal fusion, including gas and electric welding techniques and safety. Designed for any major wishing to improve mechanical skills needed in agriculturally related occupations in education and industry.

AXED 230. Early Field-Based Experience in Extension and Industry

2 Credits (2)

First Hand view of the roles of professional educators through field experiences with Cooperative Extension or other government agencies. Includes 4 weeks of classroom instruction and 30 hours of observation in a work setting. Consent of Instructor required. Restricted to Las Cruces campus only.

AXED 232. Early Field-Based Experience in Agricultural and Technology Education

2 Credits

First-hand view of the roles of professional educators through field experiences in a secondary agricultural or technology education setting. Includes 4 weeks of classroom instruction and 30 hours of observations in a classroom setting. Consent of Instructor required.

AXED 240. Introduction to Agricultural Communication

3 Credits

Students will learn about the history and theories of agricultural communications, be introduced to the degree program, explore careers in the field, and examine the role of media in agricultural communications

B A-BUSINESS ADMINISTRATION (B A)

B A 104. Introduction to Business

3 Credits

Survey and integration of functions in business organizations within their social and economic environment. Community Colleges only.

B A 105. Special Topics

1-3 Credits

Current topics in business and economics.

B A 202. Small Business Enterprise

3 Credits

Appraisal of business functions within the framework of a small business organization.

B A 291. Business Administration and Economics Internship and Cooperative Education I

1-3 Credits

Introduction and applications of the principles of business administration and economics. Registration in one course allowed per co-op work phase; a minimum of 12 work weeks is required. Open only to students in the College of Business. Option of S/U or a grade. The amount of academic credit (1-3 cr.) will be determined by the academic experience, and not by the work experience.

BCHE-BIOCHEMISTRY (BCHE)

BCHE 140. Introduction to Biochemistry

1 Credit

A description of the nature of inquiry in biochemistry, especially with respect to the interaction of chemistry and biology. Both historical development and topics of current interest will be discussed. Graded S/U.

BCHE 241. Introduction to Research in Biochemistry

1-3 Credits

Techniques and procedures of biochemical research. May be repeated for a maximum of 3 credits.

Prerequisites: 8 credits of chemistry and 3.0 GPA in chemistry.

BCIS-BUSINESS COMPUTER SYSTEMS (BCIS)

BCIS 110. Introduction to Computerized Information Systems

3 Credits

Computerized information systems, their economic, and social implications. Introduction to microcomputer hardware, personal productivity software, and communications.

BCT-BUILDING CONSTRUCTION TECH (BCT)

BCT 100. Building Trades I

8 Credits (2+12P)

Equipment and general safety. Human relations, building construction surveying, footings, foundation form work, framing, sheathing, insulation. Basic electrical wiring and plumbing. Classroom instruction, on-the-job training, and problem solving.

BCT 101. Introduction to Construction I**2 Credits (2+1P)**

Basic safety, including personal protective equipment, how to perform basic construction tasks safely, and what to do if an accident occurs. Includes basic construction methods. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 102 and BCT 103.

BCT 102. Introduction to Construction II**2 Credits (2+1P)**

Introduction to power and hand tools, blueprints, and basic rigging hardware and techniques. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 101 and BCT 103.

BCT 103. Introduction to Construction Laboratory**3 Credits**

Provides students the opportunity to practice skills they have acquired in BCT 101 and BCT 102. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 101 and BCT 102.

BCT 104. Woodworking Skills I**3 Credits (1+4P)**

Use and care of hand tools and elementary power tools, safety procedures, and supervised project construction.

BCT 105. Woodworking Skills II**3 Credits (1+4P)**

Advanced woodworking skills to include use of advanced power tools, power tool safety, and supervised construction.

Prerequisite: BCT 104 or consent of instructor.

BCT 106. Woodworking Theory and Practice**3 Credits (2+2P)**

History of wood manufacturing, industrial techniques, wood characteristics, stains and finishes. Design and construction of minor wood projects.

BCT 107. Painting I**4 Credits (2+4P)**

Types and applications of paints and clear coatings. Use of fasteners, caulks, and sealants. Restricted to: Community Colleges only.

BCT 108. Painting Level II**4 Credits (2+4P)**

Continuation of BCT 107: Painting failures and remedies, preparation, drywall patching and wood finishing. Restricted to: Community Colleges only.

Prerequisite(s): BCT 107.

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 112. Basic Masonry**4 Credits (2+4P)**

Covers use of brick and concrete blocks; basic techniques for mixing mortar and laying masonry units; describes the hand and power tools used in masonry, including safety; includes mathematics used to perform calculations related to masonry units; explains the types and properties of mortar and the materials used in mixtures. Restricted to: Community Colleges only.

BCT 114. Basic Carpentry**3 Credits (1+4P)**

Covers orientation to the trade; wood building materials, fasteners, and adhesives; detailed description and explanations of hand-operated and power tools, including safety; framing basics including laying out and constructing of wood floors, walls and ceilings and includes roughing in of door and window openings. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 115 and BCT 116.

BCT 115. Carpentry Level I**3 Credits (1+4P)**

Describes the various kinds of roofs and provides instructions for lay out of the different roofing systems. Describes the various types of windows, skylights, and exterior doors and provides instruction for installation. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114 and BCT 116.

BCT 116. Basic Carpentry Lab**2 Credits**

Provides students the opportunity to practice skills they have acquired in BCT 114 and BCT 115. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114 or BCT 115.

BCT 117. Plumbing 1A**3 Credits (2+2P)**

This course will introduce students to the plumbing profession. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field. Restricted to Community Colleges campuses only.

BCT 118. Math for Building Trades**3 Credits**

Geometry, algebra, arithmetic, and basic trigonometry pertaining to mathematical applications in the building trades field. Same as OEET 118, DRFT 118, OEPB 118.

Prerequisite: CCDM 103N.

BCT 119. Plumbing 1B**3 Credits (2+2P)**

This course continues the introduction of students to the plumbing profession. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field. Restricted to Community Colleges campuses only.

Prerequisite(s): BCT 117.

BCT 121. Construction Law**3 Credits**

Using the New Mexico Contractors Reference manual, this course covers licensing requirements and regulations, business, law and other important aspects of owning and running a construction business.

Restricted to: Community Colleges only.

BCT 130. Professional Development and Leadership**1 Credit**

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing or participating in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: BCT majors. S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

BCT 150. Forklift Operation**1 Credit**

Classroom instruction and hands-on practice to prepare students to operate a forklift safely in the workplace. Students will have the opportunity to earn a forklift operator's permit. Consent of Instructor required. Restricted to Community Colleges campuses only.

BCT 200. Building Trades II**8 Credits (2+12P)**

Continuation of BCT 100: roofing; exterior and interior finish; masonry; door, window, and cabinet installation.

BCT 206. Advanced Cabinetmaking**3 Credits (1+3P)**

Advanced cabinetmaking skills, to include expert use of hand and power tools, professional construction and finishing techniques.

Prerequisites: BCT 105, BCT 106, or consent of instructor.

BCT 209. PLUMBING II**3 Credits (2+3P)**

Continuation of BCT 109. Provides students the opportunity to gain more practice in the skills and knowledge learned in Plumbing I. Students will install fixtures and run the various plumbing supply lines from Plumbing Level I. The course included hands on projects in which the students apply many of the competencies that have been presented through the National Center for Construction and Education Research (NCCER) Plumbing Program. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): BCT 109.

BCT 217. Building and the Environment**3 Credits**

Introduction to LEED's, and Green Building Fundamentals, sustainability, sustainable design and green building evaluating cost implication of green building. Describes site development; managing site water runoff, improving a project's water use efficiency. Discusses renewable energy sources, and introduces student to generating power on-site using renewable energy sources, improving a building's indoor environment quality, improving the building industries' environmental performance and environmental aspects of building maintenance, re-use and conservation. Restricted to: Community Colleges only.

BCT 218. Plumbing 2**4 Credits (2+4P)**

This course builds on the skills and knowledge students have gained in previous BCT introduction to plumbing courses, focusing on installation of plumbing systems. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field.

Prerequisite(s): BCT 117 and BCT 119.

BCT 221. Cooperative Experience I**1-4 Credits**

Supervised cooperative work program. Student is employed in an approved occupation and is supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

BCT 222. Alternative Building**3 Credits (2+2P)**

Exploration of different types of building techniques and materials other than the traditional wood framed structures. Materials and techniques will include adobe, straw bale, insulated concrete forms, rammed earth and structural insulated panels with an emphasis on "green building" methods. Restricted to: Community Colleges only.

BCT 255. Special Topics**1-6 Credits (1-6)**

Topics to be announced in the Schedule of Classes . May be repeated up to 12 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

BCT 290. Special Problems in Building Technology**1-4 Credits**

Individual studies in areas directly related to building technologies.

Prerequisite: consent of instructor.

BIOL-BIOLOGY (BIOL)

BIOL 101G. Human Biology**3 Credits**

Introduction to modern biological concepts. Emphasis on relevance to humans and their relationships with their environment. Cannot be taken for credit after successful completion of BIOL 111G or BIOL 211G. Appropriate for non-science majors. Requires successful completion of BIOL 101GL in order to meet the NM Common Core Area III Laboratory Science requirements.

BIOL 101GL. Human Biology Laboratory**1 Credit**

Laboratory for BIOL 101G. Laboratory experiences and activities exploring biological concepts and their relevance to humans and their relationship with their environment.

Prerequisite(s)/Corequisite(s): BIOL 101G.

BIOL 110G. Contemporary Problems in Biology**4 Credits (3+3P)**

Fundamental concepts of biology will be presented using examples from relevant problems in ecology, medicine and genetics. For nonscience majors only. Community Colleges only.

BIOL 111G. Natural History of Life**3 Credits (3)**

Survey of major processes and events in the genetics, evolution, and ecology of microbes, plants and animals, and their interactions with the environment. Appropriate for science and nonscience majors. Must be taken with BIOL 111L to meet general education requirements. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): Currently enrolled in MATH 120, grade of C- or better in MATH 120, or a Math Placement Exam score adequate to enroll in mathematics courses beyond MATH 120.

BIOL 111GL. Natural History of Life Laboratory**1 Credit**

Laboratory experiments, demonstrations and exercises on interrelationships among organisms, biodiversity, processes of evolution, and interaction of organisms and their environment. Appropriate for science and nonscience majors. May be repeated up to 1 credits.

Prerequisite(s)/Corequisite(s): BIOL 111G; Currently enrolled in MATH 120, grade of C- or better in MATH 120, or a Math Placement Exam score adequate to enroll in mathematics courses beyond MATH 120.

BIOL 150. Topics in Biology**1-3 Credits (1-3)**

Introductory level coverage of biological topics. May be repeated up to 9 credits.

BIOL 154. Introductory Anatomy and Physiology**4 Credits (3+3P)**

Survey of human structure and function (does not replace BIOL 190, BIOL 111G, or BIOL 211G as a prerequisite for advanced courses in biology). Restricted to: Community Colleges only.

BIOL 211G. Cellular and Organismal Biology**3 Credits**

Principles of cellular structure and function, genetics, and organismal physiology. This course prepares the student for continuation in science or allied health fields. Suitable for all majors. Must be taken with BIOL 211L to meet general education requirements. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): a C- or better in MATH 120 or higher and a C- or better in CHEM 110G or CHEM 111G or CHEM 115.

BIOL 211GL. Cellular and Organismal Biology Laboratory**1 Credit**

Laboratory demonstrations, experiments and exercises on molecular and cellular biology and organismal physiology. Must have passed BIOL 211G or be concurrently enrolled in BIOL 211G and BIOL 211L. Pre/ May be repeated up to 1 credits.

Prerequisite(s)/Corequisite(s): a C- or better in BIOL 211G, MATH 120 or higher, and a C- or better in CHEM 110G or CHEM 111G or CHEM 115.

BIOL 219. Public Health Microbiology**3 Credits**

The characteristics of pathogenic microorganisms and the diseases that they cause. Will not meet the microbiology requirements for biology or medical technology majors.

Prerequisite: BIOL 211G and BIOL 211GL.

BIOL 221. Introductory Microbiology**3 Credits**

Principles of isolation, taxonomy, and physiology of microorganisms. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEM 110G or CHEM 111G or CHEM 112G.

Corequisite(s): BIOL 221 L.

BIOL 221 L. Introductory Microbiology Laboratory**1 Credit**

A laboratory course to accompany BIOL 221 or BIOL 219.

Prerequisite: BIOL 221 or BIOL 219 or concurrent enrollment.

BIOL 225. Human Anatomy and Physiology I**4 Credits (3+3P)**

The first in a two-course sequence that covers the structure and function of the human body, including terminology of the human gross anatomy, chemistry overview, cell structure, cell physiology (including DNA, protein synthesis and cell division). The organization of cells and tissues and their metabolic and homeostatic processes and regulation are also covered. Physical and chemical operation of organs and systems of the human body include the intergumentary, skeletal, muscular, and nervous systems. Pre/ Restricted to: Community Colleges only.

Corequisite(s): CHEM 110G or CHEM 111G.

BIOL 226. Human Anatomy and Physiology II**4 Credits (3+3P)**

The second in a two-course sequence that covers the structure and function of the human body. Includes the physical and chemical operation of the organs and systems of the human body, including endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary and reproduction system. Concepts of nutrition, metabolism, energy, fluid and electrolyte balance, heredity pregnancy and human embryonic and fetal development are also covered. Restricted to: Community Colleges only.

Prerequisite(s): BIOL 225, CHEM 110G or CHEM 111G.

BIOL 227. Pathophysiology**3 Credits**

A study of the structure and function of the human body with specialized emphasis on disease processes.

Prerequisite(s): AHS 153 or BIOL 225 Corequisite/Prerequisites(s): AHS 154 or BIOL 226 Restricted to: Community Colleges only.

BIOL 250. Special Topics**1-3 Credits**

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 6 credits. Community Colleges only.

BIOL 253. Human Anatomy**4 Credits (3+3P)**

Detailed presentations of human anatomy, with laboratory. For nursing, prenursing, and human nutrition and food science majors only. Restricted to: HNFS, PNUR majors.

Prerequisite(s): Grade of C- in BIOL 211G and either CHEM 111G or CHEM 110G.

BIOL 254. Human Physiology**3 Credits**

Physical and chemical operation of the organs and systems of the human body. Not open to students who have passed BIOL 354 or BIOL 381.

Prerequisite(s): Grade of at least C- in BIOL 211G; BIOL 211GL; CHEM 111G or CHEM 110G.

BIOL 262. Human Pathophysiology I**3 Credits**

The first in a two-course sequence that covers changes in body physiology that result from disease or injury. Includes a general introduction to pathophysiology as well as an overview of altered cellular and tissue biology, injury, inflammation, and neoplasia. Students will also explore deviation from fluid, hemodynamic, and endocrinologic balance. Topics related to the science of pathophysiology, including pathology, pathogenesis, etiology, epidemiology, and clinical manifestations, are also discussed throughout the course where relevant. Grade of C- or higher in microbiology is recommended. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of C- or higher in BIOL 225 and BIOL 226.

BIOL 263. Pathophysiology II**3 Credits**

The second in a two-course sequence that covers changes in body physiology that result from disease or injury. This course focuses on the pathophysiology of the nervous, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Topics related to the science of pathophysiology, including pathology, pathogenesis, etiology, epidemiology, and clinical manifestations, are also discussed throughout the course where relevant. Grade of C- or higher in microbiology is recommended. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of C- or higher in BIOL 225, BIOL 226, and BIOL 262.

BLAW-BUSINESS LAW (BLAW)

BLAW 230. Business Law**3 Credits**

Introduction to law in general and application to business specifically; comprehensive study of the law of contracts; and the principal and agent relationship. Offered at all NMSU Community Colleges except Dona Ana Community College. Credit may not be earned in both BLAW 230 and BLAW 317.

BMGT-BUSINESS MANAGEMENT (BMGT)

BMGT 110. Introduction to Business**3 Credits**

Terminology and concepts of the business field. Role of accounting, computers, business management, finance, labor, and international business in our society. Restricted to: Community Colleges only.

BMGT 112. Introduction to Money**3 Credits**

Banking in today's economy: language and documents of banking, check processing, teller functions, deposit function, trust services, bank bookkeeping, loans, and investments. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

BMGT 126. Retail Management**3 Credits**

Phases of retailing, including types of retail outlets and basic problems of organizing and operating a retail store. Restricted to: Community Colleges only.

BMGT 132. Principles of Selling**3 Credits**

Analysis of customer behavior, persuasive communication, process of the sales interview. Restricted to: Community Colleges only.

BMGT 136. Fundamentals of Buying and Merchandising**3 Credits**

Covers operational aspects of procuring and selling merchandise for the retail store. Procedures covered are buying, receiving, pricing strategies, sales promotions and operational controls. Restricted to: Community Colleges only.

BMGT 138. Advertising**3 Credits**

Psychological approach to non-personal consumer persuasion; applied techniques in media selection, layout mechanics, production methods, and campaign structures. Restricted to: Community Colleges only.

BMGT 140. Principles of Supervision I**3 Credits**

Principles of supervision emphasizing planning, organization, rating of employees and procedures to develop good morale. Introduction to interpretation of case studies. Restricted to: Community Colleges only.

BMGT 150. Income Taxation**3 Credits**

Federal income taxation of individuals, sole proprietorships, partnerships, corporations, trusts, and estates with particular reference to CLU, life insurance and annuities. Restricted to: Community Colleges only.

BMGT 155. Special Topics I**1-3 Credits (1-3)**

Introductory special topics of lower division level work that provides a variety of timely subjects and content material. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

BMGT 160. Self-Presentation and Etiquette**3 Credits**

Introduction to business etiquette based on tradition, social expectations, and professional behavior standards. Restricted to: Community Colleges only.

BMGT 191. ENACTUS (Students in Free Enterprise)**1 Credit**

ENACTUS is an international organization promoting and teaching business entrepreneurship. Students learn teamwork, leadership, and networking skills by participating in regional and national business competitions and community service projects. May be repeated up to 6 credits. Restricted to: BMGT or Pre-Business majors. Restricted to Community Colleges only.

BMGT 201. Work Readiness and Preparation**3 Credits**

Instruction in methods of selection, seeking, acquiring and retaining employment. Addresses work success skills, business etiquette, employer expectation and workplace norms. Restricted to Community Colleges campuses only.

BMGT 205. Customer Service in Business**3 Credits**

Establishes concepts of service quality in relationship to business success and maximization of returns to the organization. Explores techniques for delivering quality and service in a variety of business settings. Restricted to: Community Colleges only.

BMGT 208. Business Ethics**3 Credits**

The course examines the underlying dimensions of ethics in business, investigating ethics in relationship to the organization, the stakeholders, and society. Exploration of ethical issues from a historical context, analyzing actual events through the lens of business decision making, including legal/political, sociocultural, economic, and environmental considerations will be undertaken. Restricted to Community Colleges campuses only.

BMGT 210. Marketing**3 Credits**

Role of marketing in economy, types of markets, product development, distribution channels, pricing, promotion of goods, market research, consumer motivation, and management of marketing process. Restricted to: Community Colleges only.

Prerequisite(s): BMGT 110.

BMGT 212. Supervisory and Leadership Trends**3 Credits**

Current trends in marketing, merchandising, sales promotion and management; in manufacturing, merchandising and service types of businesses. Extensive use of practical student project. Restricted to Community Colleges only.

Prerequisite(s): BMGT 110 or BUSA 111.

BMGT 213. Consumer Lending**3 Credits**

Principles of credit evaluation, types of credit, marketing, collections, legal aspects, installment lending, leasing management, insurance, and rate structure and yields. Restricted to: Community Colleges only.

Prerequisite(s): BMGT 112.

BMGT 215. Banks and the Money Supply**3 Credits**

Practical application of the economics of money and banking. Required of all students electing the banking option. Restricted to: Community Colleges only.

BMGT 216. Business Math**3 Credits**

Application of basic mathematical procedures to business situations, including percentage formula applications, markup, statement analysis, simple and compound interest, and annuities. Restricted to: Community Colleges only.

Prerequisite(s): CCDM 103N or satisfactory math score on ACT.

BMGT 221. Internship I**1-3 Credits (1-3)**

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: BMGT majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

BMGT 225. Introduction to Commercial Lending**3 Credits**

Commercial lending overview, the lending process, portfolio management, and regulation and business development. Restricted to: Community Colleges only.

Prerequisite(s): BMGT 112.

BMGT 231. Legal Issues in Business**3 Credits**

Application of fundamental legal principles to business transactions. Sources, functions, and objectives of law, including federal and New Mexico court systems and procedures, criminal law, torts, contracts, and sales, and Uniform Commercial Code. Restricted to: Community Colleges only.

BMGT 232. Personal Finance**3 Credits**

Budgeting, saving, credit, installment buying, insurance, buying vs. renting a home, income tax statement preparation, investment, and estate disposal through will and trust. Restricted to: Community Colleges only.

BMGT 235. Credit Administration**3 Credits**

Covers factors influencing and determining loan policy: methods of credit investigation and analysis, credit techniques, credit problems, and types of loans. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BMGT 112.

BMGT 239. Visual Marketing Techniques**3 Credits**

Provides a basic understanding of visual marketing and merchandising techniques. The importance of effective presentation of a store and its merchandise is covered, as is line, balance and artistic display. Restricted to: Community Colleges only.

BMGT 240. Human Relations**3 Credits**

Human interactions in business and industrial settings. Motivation and learning experiences as related to problems of the worker and supervisor. Practical applications of human behavior. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

BMGT 248. Introduction to Quality Management**3 Credits**

Introductory practices of total quality management practices aimed at all levels of an organization to continually improve performance to include competitiveness in today's business world. Restricted to: Community Colleges only.

BMGT 250. Diversity in the Workplace**3 Credits**

Concepts of culture, diversity, prejudice, and discrimination within the domestic workforce/society. Restricted to Community Colleges campuses only.

Prerequisite(s): BMGT 110 or BUSA 111.

BMGT 260. Real Estate Practice**3 Credits**

This course is a requirement for licensure in real estate for the state of New Mexico. Topics covered include: real estate finance, settlement, foreclosure, federal taxation, valuation and appraisal, land descriptions and math skills. These topics are requirements of the New Mexico Real Estate Commission. Restricted to: Community Colleges only.

BMGT 264. Real Estate Law**3 Credits**

This course is a requirement for licensure in real estate for the state of New Mexico. Topics covered include: ownership of real estate, real estate brokerage relationships, contracts, environmental concerns and federal laws that affect real estate. These topics are requirements of the New Mexico Real Estate Commission. Restricted to: Community Colleges only. Crosslisted with: PL S 264

BMGT 268. Real Estate Broker's Basic Course**3 Credits**

State of New Mexico specific criteria that apply to real estate licensure: purchase agreements, listing agreements, New Mexico Rules and Regulations, and landlord tenant legislation. Restricted to: Community Colleges only.

Prerequisite(s): BMGT 260 & BMGT 264.

BMGT 272. E-Commerce Operations**3 Credits**

Includes the many forms of e-commerce and emerging technologies that will impact the business of tomorrow. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 105 or CS 110 or BCIS 110.

BMGT 275. Small Business Planning**3-4 Credits (3-4)**

How to start a small business based on a formal business plan. Includes feasibility study and legal requirements. Restricted to: Community Colleges only.

BMGT 277. Small Business Management**3 Credits**

Study of the principles, advantages, and problems of owning or operating a small business. Location, capital, marketing, control, and sales promotion. Restricted to Community Colleges campuses only.

Prerequisite(s): BMGT 110 or BUSA 111.

BMGT 280. Introduction to Human Resources**3 Credits**

Personnel functions encompassing job analysis, recruitment, selection, training, appraisals, discipline, and terminations. Restricted to Community Colleges campuses only.

Prerequisite(s): BMGT 110 or BUSA 111 or B A 104.

BMGT 282. Introduction to International Business Management**3 Credits**

Overview of the social, economic and cultural environment of international business transactions. Restricted to Community Colleges only.

Prerequisite(s): BMGT 110 or BUSA 111.

BMGT 285. Introduction to Manufacturing Operations**3 Credits**

Introduction to issues related to manufacturing, including an overview of the production function, product design and development, location, layout, forecasting, planning, purchasing, materials/inventory, and quality management. Restricted to Community Colleges campuses only.

Prerequisite(s): (BMGT 110 or BUSA 111) and (BMGT 140 or MGT 201).

BMGT 286. Introduction to Logistics**3 Credits**

Overview on the planning, organizing, and controlling of transportation, inventory maintenance, order processing, purchasing, warehousing, materials, handling, packaging, customer service standards, and product scheduling. Restricted to: Community Colleges only.

BMGT 287. Introduction to Export/Import**3 Credits**

Procedures and documentation for exporting and importing products. Emphasis on NAFTA regulations and other U.S. border operations crossings. Restricted to Community Colleges only.

Prerequisite(s): BMGT 110 or BUSA 111.

BMGT 290. Applied Business Capstone**3 Credits**

Refines skills and validates courses taken in BMGT program. Business simulations, case studies and projects used to test and improve business practices. Student must be within 25 credits of graduation. May be repeated up to 3 credits. Restricted to: BMGT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): (BMGT 110 or BUSA 111), and (BMGT 140 or MGT 201), and (BMGT 240 or SOC 101 or PSY 201), and MKTG 203 and FIN 206.

BMGT 298. Independent Study**3 Credits**

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Sophomore standing with 3.0 GPA.

BOT-BUSINESS OFFICE TECHNOLOGY (BOT)

BOT 101. Keyboarding Basics**3 Credits (2+2P)**

Covers correct fingering and mastery of the keyboard to develop skillful operation. Formatting basic business letters, memos, and manuscripts.

BOT 102. Keyboarding: Document Formatting**3 Credits (2+2P)**

Designed to improve keyboarding speed and accuracy; introduce formats of letters, tables and reports. A speed and accuracy competency requirement must be met.

Prerequisite: BOT 101 or consent of instructor.

BOT 105. Business English I**3 Credits**

Training and application of the fundamentals of basic grammar, capitalization and sentence structure (syntax).

BOT 106. Business Mathematics**3 Credits (2+2P)**

Mathematical applications for business, including training in the touch method of the 10-key calculator.

Prerequisite: CCDM 103N or adequate score on math placement exam.

BOT 109. Business English II**3 Credits**

Training and application of the fundamentals of punctuation, numbers, basic writing and editing skills.

Prerequisite: C or better in BOT 105.

BOT 110. Records Management**3 Credits**

Principles, methods and procedures for the selection, operation and control of manual and automated records systems.

BOT 120. Accounting Procedures I**3 Credits (2+2P)**

Business accounting principles and procedures. Use of special journals, cash control, and merchandising concepts. Reports for sole proprietorships.

BOT 121. Accounting Procedures II**3 Credits (2+2P)**

Continuation of BOT 120, emphasizing accounting principles and procedures for notes and interest, depreciation, partnerships and corporations, cash flow and financial statement analysis. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 120 or ACCT 221.

BOT 135. Keyboarding Technique Review**3 Credits**

Emphasis on improving keyboarding speed and accuracy.

Prerequisite: BOT 101 or equivalent.

BOT 140. Payroll Accounting**3 Credits (2+2P)**

Payroll procedures including payroll tax forms and deposits. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ACCT 221 or BOT 120.

BOT 150. Medical Terminology**3 Credits**

Understanding of the basic elements of medical words. Use of medical abbreviations. Same as NURS 150 and OEHO 120.

BOT 169. Spanish Grammar for Business Administration**3 Credits**

Introductory course in Spanish grammar and practical business terms required for the proper application of fundamental oral and written business communication skills for Spanish speakers in the field of business administration. Restricted to Community Colleges campuses only.

Prerequisite(s): Spanish-speaking ability and computer keyboarding ability.

BOT 170. Office Communications in Spanish I**3 Credits**

Develop oral and written communications skills of native or near-native speakers of Spanish. The student will learn basic letter writing skills, customer service techniques, and telephone etiquette in Spanish. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 169, Spanish-speaking ability, and computer keyboarding ability.

BOT 171. Office Communications in Spanish II**3 Credits**

Develop oral and written communications skills of native or near-native speakers of Spanish. Emphasis placed on learning the office assistant's role within the office environment. Compose complex business correspondence and learn to make international travel arrangements.

Prerequisite: BOT 101 or BOT 170.

BOT 191. Taking Minutes & Proofreading**3 Credits**

Preparation and practice producing minutes suited for different meeting types and purposes. Provides strategies to prepare for meetings, to record proceedings, and to transcribe minutes while incorporating proofreading skills practice. Topics include legal requirements, meeting types, minute formats, and duties/expectations of the minute taker and the meeting chair. Graded: S/U. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 109 or consent of instructor.

BOT 202. Keyboarding Document Production**3 Credits (2+2P)**

Further development of keyboarding speed and accuracy. Production of complex letters, memos, tables, reports and business forms. A speed and accuracy competency requirement must be met.

Prerequisites: BOT 102 and BOT 109, or consent of instructor.

BOT 203. Office Equipment and Procedures I**3 Credits (2+2P)**

Office organization, telephone techniques, equipment and supplies, handling meetings, human relations, mail procedures, and travel.

Prerequisites: BOT 213 or C S 110G or consent of instructor.

BOT 205. Microcomputer Accounting I**3 Credits (2+2P)**

Introduction to automated accounting systems on microcomputers.

Prerequisite: working knowledge of computers and accounting or consent of instructor.

BOT 206. Microcomputer Accounting II**3 Credits (2+2P)**

Microcomputer accounting applications, integrating spreadsheets, word processing, graphics, and database. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 121 or BOT 215.

BOT 207. Machine Transcription**3 Credits (2+2P)**

Creating office documents using transcribing equipment and microcomputer software. Emphasis on proofreading, editing and grammar.

Prerequisites: minimum keyboarding of 45 wpm and C or better in BOT 105 or BOT 109 or equivalent and BOT 211 or BOT 213.

BOT 208. Medical Office Procedures**3 Credits (2+2P)**

Current computerized and traditional administrative medical office procedures will be introduced. Practical knowledge on managing required record keeping in a medical office environment will be emphasized.

Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 109 or ENGL 111G, HIT 150 or AHS 120, and computer keyboarding ability or consent of instructor.

BOT 209. Business and Technical Communications**3 Credits**

Effective written communication skills and techniques for career success in the work place. Composition of letters, memos, short reports, forms, and proposals, and technical descriptions and directions.

Prerequisites: ENGL 111G and computer keyboarding ability or consent of instructor.

BOT 211. Information Processing I**3 Credits (2+2P)**

Defining and applying fundamental information processing concepts and techniques using the current version of leading software. Restricted to Community Colleges only.

Prerequisite(s): BOT 101 or consent of instructor.

BOT 213. Word Processing I**3 Credits (2+2P)**

Operation and function of a word processor. Specific equipment to be announced in the Schedule of Classes.

Prerequisite: BOT 101 or keyboarding proficiency as demonstrated through completion of BOT 122, BOT 123, and BOT 124 or equivalent.

BOT 214. Word Processing II**3 Credits (2+2P)**

Advanced operation and functions of a word processor. Specific equipment to be announced in the Schedule of Classes.

Prerequisite: BOT 213 or consent of instructor.

BOT 215. Spreadsheet Applications**1-3 Credits**

Use of spreadsheets to include graphics and business applications. Same as OECS 215. May be repeated under different subtitles listed in the Schedule of Classes.

BOT 217. Powerpoint Presentation**3 Credits**

Comprehensive, hands-on approach to learning and applying basic and advanced features of PowerPoint. These include text enhancements, objects, fills, colors, animation, charts, sound, video, and hyperlinks. Students demonstrate appropriate audience and communication tools to deliver presentations.

Prerequisites: BOT 211 or ability to demonstrate keyboarding and Windows proficiency.

BOT 218. Information Processing II**3 Credits (2+2P)**

Advanced information processing techniques using current version of leading software. May be repeated for a maximum of 6 credits.

Prerequisite: BOT 211 or consent of instructor.

BOT 220. Internship in Business Office Technology**2 Credits**

Experience in a supervised office position. Student must work at least eight hours per week. May be repeated for a maximum of 4 credits.

Prerequisites: sophomore standing and consent of instructor.

BOT 221. Internship I**1-3 Credits**

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: BOT & HIT majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

BOT 222. Internship II**1-3 Credits**

Continuation of BOT 221. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: BOT & HIT majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 221 and consent of instructor.

BOT 223. Medical Transcription I**3 Credits (2+2P)**

Concepts in medical transcription are introduced on how to produce a variety of reports required in a medical office or facility utilizing accurate medical terminology, spelling, grammar, and document formatting. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 150 or AHS 120 and HIT 158 and BOT 209.

BOT 228. Medical Insurance Billing**3 Credits (2+2P)**

Comprehensive overview of the insurance concepts and applications required for successfully and accurately completing and submitting insurance claims and reimbursement processes for various insurance carriers, both private and government, will be emphasized. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 150 or AHS 120 and BOT 208.

BOT 233. Advanced Medical Transcription**3 Credits (2+2P)**

Builds upon the concepts introduced in Medical Transcription I providing greater understanding of how to produce advanced reports dictated by physicians with increasing speed and accuracy. Emphasis will be on proofreading and editing of operative reports, patient history and physicals, office notes, labor and delivery reports, consultation reports, discharge summaries, and other medical reports. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 223 and HIT 130.

BOT 239. Personal Development**3 Credits**

Development of a marketable, employable office systems person, to include interview, voice, manners, and apparel.

BOT 240. Introduction to Individual Taxation**3 Credits**

Overview of Individual Federal Taxation; awareness of tax problems pitfalls and planning opportunities; focus on individual personal financial concerns and tax planning. One semester of accounting principles/procedures is recommended.

BOT 241. Auditing and Business Issues**3 Credits**

Introduction to basic auditing concepts, the purpose for the auditing process, and requirements of persons assisting with the audit process. The course will also deal with issues of business law including contracts, sales, torts, strict liability, and business ethics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 120 or ACCT 221.

BOT 244. Tax Preparation**3 Credits**

Introduces basic federal and state tax codes for preparing individual income tax returns. Emphasis on use of tax software.

Prerequisite: keyboarding proficiency.

BOT 250. Electronic Office Systems**3 Credits (2+2P)**

Management of the electronic office. Office use of computers, printers, fax machines, copiers, and scanner concepts will be covered.

Prerequisite: BOT 211.

BOT 260. Bookkeeping Simulation Capstone**3 Credits (2+2P)**

Refines the professional and technical skills students have learned while completing the BOT-Bookkeeping Assistant Option curriculum by demonstrating how coursework ties together. Designed as a bookkeeping assistant capstone course.

Prerequisite(s): BOT 121 or ACCT 221, BOT 140, BOT 205, and BOT 244, or consent of instructor.

BOT 270. Business Office Technology Capstone**3 Credits (2+2P)**

Refines professional skills learned in the BOT program and ties all BOT coursework together. Restricted to: Community Colleges only.

Prerequisite(s): BOT 102 or BOT 129; and BOT 120; and BOT 209 or ENGL 203G or ENGL 218G; and BOT 211 or OECS 211.

BUSA-BUSINESS ADMINISTRATION (BUSA)

BUSA 111. Business in a Global Society**3 Credits**

Overview of the global environment of business and the development of business as an integrative, cross-disciplinary activity.

C D-COMMUNICATION DISORDERS (C D)

C D 221. Introduction to Communication Disorders**3 Credits**

Basic information about speech, language, and hearing disorders; orientation to the professions of speech-language pathology and audiology.

C E-CIVIL ENGINEERING (C E)

C E 109. Computer Drafting Fundamentals**3 Credits (2+2P)**

Same as DRFT 109, E T 109, SUR 109.

C E 151. Introduction to Civil Engineering**3 Credits**

Problem solving and use of computer software for civil engineering applications.

Prerequisite(s): ENGR 100.

Corequisite(s): MATH 190.

C E 198. Special Topics**1-3 Credits**

May be repeated for a maximum of 6 credits.

Prerequisite: consent of department head.

C E 233. Mechanics-Statics**3 Credits**

Engineering mechanics using vector methods.

Prerequisites: MATH 192G and cumulative GPA of 2.0.

Corequisite: PHYS 215G.

C E 234. Mechanics-Dynamics**3 Credits**

Kinematics and dynamic behavior of solid bodies utilizing vector methods.

Prerequisite(s): C E 233, MATH 192G, PHYS 215G.

C E 256. Environmental Engineering and Science**3 Credits**

Principles in environmental engineering and science: physical chemical systems and biological processes as applied to pollution control.

Crosslisted with: E S 256

Prerequisite(s): CHEM 111 and MATH 191G.

C E 256 L. Environmental Science Laboratory**1 Credit**

Laboratory experiments associated with the material presented in C E 256. Same as E S 256L.

Corequisite: C E 256.

C E 298. Special Topics**1-3 Credits**

May be repeated for a maximum of 6 credits.

Prerequisite: consent of department head.

C EP-COUNSELING & EDUC PSY (C EP)

C EP 110G. Human Growth and Behavior**3 Credits**

Introduction to the principles of human growth and development throughout the life span.

C EP 199. Academic Excellence**1 Credit**

Academic curriculum of excellence that includes the development of collaborative learning and student success environment, learning diverse learning styles and multiple intelligences, and developing multi-contextual academic communication styles. Students must enroll in course for both Fall and Spring semesters. Course does not count toward CEP minor. May be repeated up to 2 credits.

C EP 210. Educational Psychology**3 Credits**

Psychological foundations as they apply to the learner in the class room setting.

C EP 215. The Preschool Child**3 Credits**

Survey of psychological development from conception to age five.

C EP 240. Adolescence in School Settings**3 Credits**

Survey of psychological development during the adolescent years.

C EP 298. Exploration of Counseling & Community Psychology**3 Credits**

An exploration of careers, activities, & techniques in counseling, school, and community psychology. Course does not count towards CEP minor. May be repeated up to 6 credits.

C EP 299. Academic Excellence Classes**1-6 Credits (1-6)**

Academic curriculum of excellence that includes an in-depth understanding of the elements that promote student academic success. Students will develop leadership and presentation skills needed to forge effective student mentor relationships and conduct outreach to campus and local community leaders to cultivate a collaborative learning environment. May be repeated up to 6 credits.

C J-CRIMINAL JUSTICE (C J)

C J 101G. Introduction to Criminal Justice**3 Credits**

Examination of crime and justice within the broader social and cultural context of U.S. society from interdisciplinary social science perspectives. Includes critical analysis of criminal justice processes and the ethical, legal, and political factors affecting the exercise of discretion by criminal justice professionals.

C J 199. Special Topics in Criminal Justice I**1-3 Credits**

Specific subjects to be announced in the Schedule of Classes. May be repeated under different topics for a maximum of 6 credits.

C J 205. Criminal Law**3 Credits**

Rules, principles, and doctrines of criminal liability in the United States. The historical development, limits, and functions of the substantive criminal law. May be repeated up to 3 credits.

C J 210. The American Law Enforcement System**3 Credits**

Historical and philosophical foundations of law and order. An in-depth examination of the various local, state, and federal law enforcement agencies.

C J 221. Fundamentals of Criminal Investigation**3 Credits**

Investigation procedures from crime scene searches, collection of evidence, and case preparation. Community Colleges only. (Note: students completing C J 221 may not take C J 321.)

C J 230. Introduction to Corrections**3 Credits**

Development of correctional philosophy, theory, and practice. Instructional and non-institutional alternatives available in the corrections process.

C J 250. Courts and the Criminal Justice System**3 Credits**

Structures and functions of American courts. Roles of attorneys, judges, and other court personnel; operation of petit and grand juries, trial and appellate courts.

C J 293. Field Experience in Criminal Justice**3-6 Credits**

Field experience in a public criminal justice agency or equivalent private sector organization. Supervised internship experience, conferences, and observations. Restricted to majors. Community Colleges only.

Prerequisites: C J 101G, prior arrangement and consent of instructor and a GPA of 2.0 or better in major.

C S-COMPUTER SCIENCE (C S)

C S 110. Computer Literacy**3 Credits**

This course provides a broad introduction to computing, including computer and information technology concepts; economic and social implications of technology; database management, spreadsheet, word processing, and presentation applications.

C S 111. Computer Science Principles**4 Credits (3+2P)**

This course provides a broad and exciting introduction to the field of computer science and the impact that computation has today on every aspect of life. It focuses on exploring computing as a creative activity and investigates the key foundations of computing: abstraction, data, algorithms, and programming. It looks into how connectivity and the Internet have revolutionized computing and demonstrates the global impact that computing has achieved, and it reveals how a new student in computer science might become part of the computing future.

Prerequisite(s): MATH 120 or higher.

C S 117. Introduction to Computer Animation**3 Credits**

Introductory course for learning to program with computer animation as well as learning basic concepts in computer science. Students create interactive animation projects such as computer games and learn to use software packages for creating animations in small virtual worlds using 3D models. Recommended for students considering a minor/major in computer science or simply interested in beginning computer animation or programming.

C S 150. C Programming**3 Credits (2+2P)**

Programming in the C language. May be repeated up to 3 credits.

Prerequisite(s): MATH 120 or higher.

C S 151. C++ Programming**3 Credits (2+2P)**

Introduction to object-oriented programming in the C++ language. May be repeated up to 3 credits.

Prerequisite(s): MATH 120 or higher.

C S 152. Java Programming**3 Credits (2+2P)**

Programming in the Java language. May be repeated up to 3 credits.

Prerequisite(s): MATH 120 or higher.

C S 153. Python Programming I**3 Credits**

This course is an introduction to programming in the Python language, covering fundamental scripts, data types and variables, functions, and simple object creation and usage. The focus will be on preparing students to use Python in their own areas. No prior programming experience is required.

Prerequisite(s): MATH 120 or higher.

C S 154. Python Programming II**3 Credits**

This course covers advanced Python programming, including classes, objects, and inheritance, embedded programming in domain applications, database interaction, and advanced data and text processing. The focus will be on preparing students to use Python in their own areas.

Prerequisite(s): C S 153 or C S 453.

C S 155. Internet Programming I**3 Credits**

This course is an introduction to programming for the Web in PHP and Javascript, covering fundamental web scripting ideas, CSS, data types and variables, functions, simple object creation and usage. Javascript usage will focus on dynamic page content. No prior programming experience is required, though a basic understanding of HTML will be assumed.

Prerequisite(s): MATH 120 and a basic understanding of HTML.

C S 156. Internet Programming II**3 Credits**

This course covers advanced web scripting, including Javascript with AJAX, PHP integration with databases, object oriented features of PHP and Javascript, advanced CSS usage, and using web application frameworks.

Prerequisite(s): C S 155 or C S 455.

C S 157. Topics in Software Programming and Applications**3 Credits (2+2P)**

Current topics in computer programming and software applications.

Topic announced in the Schedule of Classes. May be repeated if subtitle is different.

C S 158. R Programming I**3 Credits**

This course is an introduction to data processing in the R language, covering fundamental script configuration, data types and data collections, R control structures, and basic creation of graphs and data visualizations. This course will not focus on the statistical capabilities of R, though some basic statistical computations will be used.

Prerequisite(s): MATH 121G.

C S 159. R PROGRAMMING II**3 Credits**

This course covers advanced R programming, including advanced data collection processing, advanced data visualizations, object oriented features of R, and file processing. It is recommended that students have one statistics course before taking this course.

Prerequisite(s): C S 158 or C S 458.

C S 171G. Introduction to Computer Science**4 Credits (3+2P)**

Computers are now used widely in all area of modern life. This course provides understanding of the theoretical and practical foundations for how computers work, and provides practical application and programming experience in using computers to solve problems efficiently and effectively. The course covers broad aspects of the hardware, software, and mathematical basis of computers. Weekly labs stress using computers to investigate and report on data-intensive scientific problems. Practical experience in major software applications includes an introduction to programming, word processing, spreadsheets, databases, presentations, and Internet applications.

Prerequisite(s): MATH 210G or MATH 120 or higher.

C S 172. Computer Science I**4 Credits (3+2P)**

Computational problem solving; problem analysis; implementation of algorithms. Recursive structures and algorithms. Crosslisted with: C S 460.

Prerequisite(s): MATH 121G or higher; C S 111 or successful placement.

C S 209. Special Topics.**1-3 Credits**

May be repeated for a maximum of 12 credits.

C S 271. Object Oriented Programming**4 Credits (3+2P)**

Introduction to problem analysis and problem solving in the object-oriented paradigm. Practical introduction to implementing solutions in the C++ language. Hands-on experience with useful development tools.

Prerequisite(s): C- or better in C S 172 or E E 161.

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.

Prerequisite(s): At least a C- in C S 172 or E E 161.

C S 278. Discrete Mathematics for Computer Science**4 Credits (3+2P)**

Discrete mathematics required for Computer Science, including the basics of logic, number theory, methods of proof, sequences, mathematical induction, set theory, counting, and functions. Crosslisted with: MATH 278.

Prerequisite(s): At least C- in C S 172.

CCDE-DEVELOPMENTAL ENGLISH (CCDE)

CCDE 105 N. Effective Communication Skills**4 Credits (3+2P)**

Instruction and practice in basic communication, to include written and oral presentations. Develops thinking, writing, speaking, reading, and listening skills necessary for successful entry to college and university classes. Provides laboratory. RR applicable.

CCDE 110 N. General Composition**4 Credits (3+2P)**

Instruction and practice in preparation for college-level writing. Students will develop and write short essays. Provides laboratory. RR applicable.

Prerequisite: CCDE 105N (C or better) or equivalent.

CCDL-DEVELOPMENTAL ESL (CCDL)

CCDL 101 N. Basic Skills in English as a Second Language I**4 Credits (3+2P)**

Developmental studies course for ESL students. Development of basic skills in speaking, listening, reading, and writing English as a second language with emphasis on speaking and listening. Pronunciation stressed. Course intended for U.S. citizens and residents who are nonnative speakers of English.

Prerequisite: English language screening or consent of instructor.

CCDL 103 N. Basic Skills in English as a Second Language II**4 Credits (3+2P)**

Continuation of CCDL 101N for ESL students. Course intended for U.S. citizens and residents who are nonnative speakers of English.

Prerequisite: English language screening or consent of instructor.

CCDL 105 N. Intermediate Skills in English as a Second Language I**4 Credits (3+2P)**

Intermediate level with emphasis on reading and writing. Grammar and syntax stressed. Course intended for U.S. citizens and residents who are nonnative speakers of English.

Prerequisite: English language screening or consent of instructor.

CCDL 107 N. Intermediate Skills in English as a Second Language II**4 Credits (3+2P)**

Continuation of CCDL 105N. Course intended for U.S. citizens and residents who are nonnative speakers of English.

Prerequisite: English language screening or consent of instructor.

CCDM-DEVELOPMENTAL MATHEMATICS (CCDM)

CCDM 100 N. Mathematics Preparation for College Success**1-4 Credits**

Mathematics skills course designed for college students with math skills insufficient for success in CCDM 103N. May be repeated for a maximum of 4 credits. RR applicable.

CCDM 103 N. Pre-Algebra**4 Credits (3+2P)**

Fundamental mathematics operations and arithmetic computations. Introduction to algebra and applied geometry. Provides laboratory and individualized instruction. RR applicable.

CCDM 105 N. Mathematics Preparation and Pre-Algebra**5 Credits (4+2P)**

A total immersion course that combines CCDM 100N and CCDM 103N using tutorials, manipulatives, and classroom instruction. Completion of this class is equivalent to the completion of CCDM 100N and CCDM 103N. Restricted to: Community Colleges only.

Prerequisite(s): Math Placement Exam.

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.

CCDM 117 N. Intermediate Algebra I**3 Credits**

Real numbers, linear equations, functions, inequalities, absolute value equations, systems of equations, exponents and scientific notation, polynomials and polynomial functions, rational expressions. Graded S/U. A student who completes CCDM 117N with a grade of S must then continue with a designated section of MATH 120.

Prerequisite: student must be qualified for MATH 120.

CCDR-DEVELOPMENTAL READING (CCDR)

CCDR 101 N. Introduction to Basic Reading**4 Credits (3+2P)**

Provides basic reading skills through comprehension and vocabulary development. Emphasis on oral language literacy and reading fluency. Course earns institutional credit but will not count toward degree requirements. May be repeated up to 4 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Appropriate placement score.

CCDR 103 N. Comprehensive Reading Development**4 Credits (3+2P)**

Provides integration of basic reading skills, including vocabulary development, text comprehension, and critical reading skills. Course earns institutional credit but will not count towards degree requirements. May be repeated up to 4 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

Prerequisite(s): Appropriate placement score.

CCDR 105 N. Fundamentals of Academic Reading.**3 Credits (2+2P)**

Fundamentals of academic reading skills. Emphasis on vocabulary development and text comprehension through literature based instruction. Course earns institutional credit but will not count towards degree requirements. Graded: Traditional with RR. May be repeated up to 3 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

Prerequisite(s): Appropriate placement score.

CCDR 110 N. Effective College Reading**3 Credits (2+2P)**

Provides a variety of strategies for effective reading and studying at the college level. Emphasis on reading across disciplines. Course earns institutional credit but will not count towards degree requirements. Graded: Traditional with RR. May be repeated up to 3 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

Prerequisite(s): Appropriate placement score.

CCDS-DEVELOPMENTAL SKILLS (CCDS)

CCDS 104 N. Comprehensive Reading Development**4 Credits (3+2P)**

Integration of basic reading skills, including vocabulary development, text comprehension, and critical reading skills. RR applicable.

CCDS 108 N. Effective Reading**4 Credits (3+2P)**

Instruction and practice of skills and strategies for effective reading at the college level. Designed to incorporate applied skill practice lab activities. RR applicable.

CCDS 109 N. Study Skills for Reading**1-3 Credits**

Individualized reading skill strategies necessary for success in college classroom. May be repeated for a maximum of 3 credits. Graded traditional or S/U.

CCDS 111 N. Study Skills for Math**1-3 Credits**

Individualized study skill strategies necessary for success in the math classroom. May be repeated for a maximum of 3 credits.

CCDS 113 N. Study Skills for English**1-3 Credits**

Individualized study skill strategies necessary for success in the composition classroom. May be repeated for a maximum of 3 credits.

CHEF-CULINARY ARTS (CHEF)

CHEF 101. Culinary Arts Kitchen Orientation**3 Credits**

Provides students with basic information and skills necessary for success in the Culinary Arts program. Students learn basic kitchen routines, safety and sanitation, professional conduct and deportment, standard kitchen calculations, knife handling, and are introduced to the laboratories for initial cooking experiences. Restricted to Community Colleges campuses only.

CHEF 125. Introductory Cake Decorating**1 Credit**

Introduction to the professional cake decorating techniques used by pastry chefs. Basic skills of piping a variety of icings into different patterns are taught. Restricted to Community Colleges campuses only.
Prerequisite(s): Consent of instructor.

CHEF 126. Intermediate Cake Decorating**1 Credit**

Introduction to more advanced professional cake decorating techniques used by pastry chefs. Fondant work and more complex decorating schemes are taught. Restricted to Community Colleges campuses only.
Prerequisite(s): CHEF 125.

CHEF 127. Chocolate Work**1 Credit**

Introduction to working with chocolate utilizing a variety of methods. Tempering, forming, molding, and other professional techniques will be taught. Restricted to Community Colleges campuses only.
Prerequisite(s): Consent of Instructor.

CHEF 128. Advanced Chocolate Work**1 Credit**

More advanced treatments of chocolate are explored and professional techniques for the chocolatier are developed. Restricted to Community Colleges campuses only.
Prerequisite(s): CHEF 127.

CHEF 129. Wedding Cake Design and Construction**1 Credit**

Basic skills in designing wedding (or other specialty event) cakes. Includes shaping, icing selection, decorating scheme, presentation, transportation, and remote set up. Restricted to Community Colleges campuses only.
Prerequisite(s): CHEF 125 and CHEF 126.

CHEF 155. Special Topics**1-3 Credits (3-9P)**

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CHEF 165. Math for Kitchen Operations**3 Credits**

Fundamental mathematical concepts and computations, including measurement, recipe scaling and conversions, metric unit conversion, ingredient yield calculations, ratios and cost extensions are covered. Examples of basic mathematical calculations use kitchen and food service functions, as well as situations to demonstrate principles.

CHEF 211. Food Production Management I**3 Credits (2+2P)**

Introduction to kitchen design, workflow, and commercial equipment. Techniques, methods, and application of basic food production principles. Practical experience in cooking processes from a managerial viewpoint. Crosslisted with: HOST 211. Restricted to Community Colleges only.

CHEF 212. Food Production Management II**3 Credits (2+2P)**

Selection and use of ingredients. Demonstration and application of classical and modern cooking and preparation techniques. Management techniques for kitchen personnel. Recipe design and analysis. Crosslisted with: HOST 212. Restricted to Community Colleges only.

Prerequisite(s): CHEF 211 or consent of instructor.

CHEF 213. Bakery Management I**3 Credits (2+2P)**

Fundamentals of baking from a supervisory/management perspective. Exposure to commercial equipment and processes. Introduction to commercial alternatives to scratch-preparation methods. Crosslisted with: HOST 213. Restricted to Community Colleges only.

CHEF 214. Bakery Management II**3 Credits (2+2P)**

Advanced techniques and management of bakery operations are explored. Students learn classical forms and techniques. Modern methods of preparing traditional pastry and baked goods are introduced. Crosslisted with: HOST218. Restricted to Community Colleges only.
Prerequisite(s): CHEF 213 or consent of instructor.

CHEF 233. Culinary Arts Fundamentals I**4 Credits (1+9P)**

Introduction to the basics of culinary arts, including ingredients recognition, cooking methods and techniques, knife usage, preparation of basic stocks, mother sauces, starches and vegetables. Students will participate in laboratory work designed to create an understanding of the professional role of the culinarian. Preparation and production of food products integral to service to guests is incorporated in the course. May be repeated up to 4 credits. Consent of Instructor required. Restricted to: CHEF, HOST, HSMG, HOCH majors. Restricted to Community Colleges campuses only.

CHEF 234. Culinary Arts Fundamentals II**4 Credits (1+9P)**

Continuation of introductory course focusing on meat cookery, daughter sauces, cold food preparation, poultry and seafood. Safe use of equipment is emphasized while experiencing differing methods of preparation and cooking. Preparation and production of food products integral to service of guests is incorporated in this course. May be repeated up to 4 credits. Restricted to: HOST,HSMG,CHEF majors. Restricted to Community Colleges campuses only.
Prerequisite(s): CHEF 233 with a grade of "C-" or better.

CHEF 235. Advanced Culinary Arts I**4 Credits (1+9P)**

Exploration and experience in preparation techniques beyond the basic level. Nutritional components of food are discussed, as in the application of good nutrition practices in recipe design. Students are encouraged to use creative methods to expand the individual's culinary expressions. Prepares food products for service to guests in both bulk feeding and individual service settings. Plans, prepares, serves and critiques meals provided for students, faculty and staff. Restricted to: CHEF majors. Restricted to Community Colleges campuses only.
Prerequisite(s): CHEF 234 with a grade of "C" or better.

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 majors. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 234.

CHEF 240. Baking Fundamentals I**4 Credits (1+9P)**

Introduction to baking techniques, measurement and use of ingredients; equipment use and chemical reactions inherent in the baking process. Production of simple desserts and baked goods. Introduction to working with bread doughs. 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**3 Credits (1+6P)**

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: HOST, CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of "C" or above in CHEF 242.

CHEF 245. Pastry Art and Techniques**3 Credits (1+6P)**

Advanced skills for the pastry chef including pulled sugar work, spun sugar, chocolate art, pastillage, marzipan molding, butter carving and advanced decorating techniques are explored. Students prepare specialty items for display and competition. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 240.

CHEF 255. Special Topics**3 Credits**

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to: CULI, HOST, HSMG majors. Restricted to Community Colleges campuses only.

CHEF 256. International Cuisine**3 Credits (1+6P)**

Exploration into a variety of international cuisines is undertaken, including the cultural and historical backgrounds of the foods being prepared. Students work on developing themed menus and production plans for meals utilizing a single international cuisine. May be repeated up to 6 credits. Restricted to: CULI, HOST majors. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 234.

CHEF 257. Garde Manger**3 Credits (1+6P)**

Traditional garde manger skills are taught, including plated salads, cold foods, entremets, pates, forcemeat, terrines, charcuterie and chaud froid work. The art and craft of food design, preparation and service are emphasized. Restricted to: CHEF & HOST majors. Restricted to Community Colleges only.

Prerequisite(s): CHEF 234.

CHEF 260. Nutrition for Chefs**3 Credits**

Aspects of basic human nutritional requirements are covered as are the applications of the standards to the cooking and baking. Meeting the USDA nutrient guidelines while preparing good tasting food is discussed, calorie, fat and sodium reduction techniques are explored.

CHEM-CHEMISTRY (CHEM)

CHEM 100. Basic Chemistry**3 Credits**

For students whose preparatory science or math training has been deficient. Does not meet the chemistry requirement in any curriculum.

Prerequisite: Enhanced ACT composite score of at least 18 or a grade of C or better in CCDM 114N.

CHEM 101. General Supplemental Instruction I**1 Credit**

Collaborative workshop for students in General Chemistry I. Course does not count toward departmental degree requirements. May be repeated for a maximum of 2 credits.

Corequisite: CHEM 111G.

CHEM 102. General Supplemental Instruction II**1 Credit**

Collaborative workshop for students in General Chemistry II. Course does not count toward departmental degree requirements. May be repeated for a maximum of 2 credits.

Corequisite: CHEM 112G.

CHEM 103. Principles of Supplemental Instruction III**1 Credit**

Collaborative workshop for students in CHEM 110G, Principles and Applications of Chemistry. Course does not count toward departmental degree requirements. May be repeated for maximum of 2 credits.

Co-requisite: CHEM 110G.

CHEM 110G. Principles and Applications of Chemistry**4 Credits (3+3P)**

A survey of the properties and uses of the elements and their compounds. In addition to classical chemistry, attention is paid to the materials from which consumer products are made, to the production of energy, and to environmental considerations.

Prerequisite: 3 years of high school math or CCDM 114N.

CHEM 111G. General Chemistry I**4 Credits (3+3P)**

Descriptive and theoretical chemistry. CHEM 111G/112G are General Education alternative to CHEM 110G.

Prerequisite: (1) grade of C or better in MATH 120 or a Mathematics Placement Exam Score adequate to enroll in mathematics courses beyond MATH 120; and (2) one of the following: B or better in a second semester high school chemistry course, or grade of at least C in CHEM 100, or an enhanced ACT score of at least 22.

CHEM 112G. General Chemistry II**4 Credits (3+3P)**

Descriptive and theoretical chemistry. CHEM 111G/112G are General Education alternative to CHEM 110G.

Prerequisite(s): CHEM 111G.

CHEM 115. Principles of Chemistry I**4 Credits (3+3P)**

Detailed introduction to analytical, inorganic and physical aspects of chemistry; both descriptive and theoretical explanations. Structured for chemistry and biochemistry majors but appropriate for other physical and life science students. CHEM 115/116 are General Education alternatives to CHEM 110G.

Prerequisite: Eligible to take MATH 190G and an ACT composite score of 22 or higher.

CHEM 116. Principles of Chemistry II**4 Credits (3+3P)**

Recommended for chemistry majors and other qualified students. CHEM 115/116 are General Education alternatives to CHEM 110G.

Prerequisites: grade of C or better in CHEM 115.

CHEM 210. Chemistry for the Allied Health Sciences**3 Credits**

Discussion and application of the established facts and concepts of general organic chemistry and biochemistry to acquire a molecular understanding of a variety of health related issues, from atmospheric ozone holes to human nutrition.

Prerequisite: CHEM 110G or CHEM 111G.

CHEM 211. Organic Chemistry**4 Credits (3+3P)**

A one-semester survey for students requiring a brief coverage of important classes of organic compounds.

Prerequisite: CHEM 112G or CHEM 114.

CHEM 217. General Chemistry III**3 Credits (2+3P)**

Quantitative aspects of general chemistry: solid state structure, equilibrium, thermodynamics, and kinetics. Required of chemical science majors who have taken CHEM 111G/112.

Prerequisite: CHEM 112G.

CHEM 241. Introduction to Research**1-3 Credits (3+9P)**

Techniques and procedures of chemical research. May be repeated for a maximum of 3 credits.

Prerequisites: 8 credits of chemistry and a 3.0 GPA in chemistry.

CHEM 242. Explorations in Chemistry**1 Credit**

Historical and current developments, careers in chemistry, computer applications and use of the library by chemists. To be completed before the end of the sophomore year. Graded S/U.

CHEM 251. Special Topics in Chemistry**1-6 Credits (1-6)**

Specific subjects in Chemistry. These subjects will be announced in the 'Schedule of Classes'. It may be repeated under different topics for a maximum of 12 credits.

CHIN-CHINESE (CHIN)

CHIN 111. Elementary Chinese I**4 Credits**

Mandarin Chinese for beginners.

CHIN 112. Elementary Chinese II**4 Credits**

Mandarin Chinese for beginners.

Prerequisite: C or better in CHIN 111.

CHIN 211. Intermediate Chinese I**3 Credits**

Speaking, reading and writing Mandarin Chinese. Restricted to Las Cruces campus only.

Prerequisite(s): C or better in CHIN 112.

CHIN 212. Intermediate Chinese II**3 Credits**

Speaking, reading and writing Mandarin Chinese. Restricted to Las Cruces campus only.

Prerequisite(s): C or better in CHIN 211.

CHME-CHEMICAL & MATERIALS ENGR (CHME)

CHME 101. Introduction to Chemical Engineering Calculations**2 Credits**

Introduction to the discipline of chemical engineering, including: an overview of the curriculum; career opportunities; units and conversions; process variables; basic data treatments; and computing techniques including computer programming and use of spreadsheets.

Prerequisite(s)/Corequisite(s): MATH 190G. Restricted to Las Cruces campus only.

CHME 102. Material Balances**2 Credits**

Perform material balances in single- and multi-phase, reacting and non-reacting systems under isothermal conditions.

Prerequisite(s)/Corequisite(s): CHEM 111G or CHEM 115. Prerequisite(s): MATH 190G, CHME 101.

CHME 201. Energy Balances & Basic Thermodynamics**3 Credits**

Chemical Engineering energy balances; combined energy and material balances including those with chemical reaction, purge and recycle; thermochemistry; application to unit operations. Introduction to the first and second laws of thermodynamics and their applications. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

Prerequisite(s): CHME 102, CHEM 115 or CHEM 111G, and MATH 192G.

CHSS - COMM HEALTH/SOC SRVCS (CHSS)

CHSS 101. Overview of Health and Community Services

3 Credits

Health and community service professions with emphasis on public health, community health education, and environmental/occupational health.

CHSS 216. Ethical and Research Issues in Human and Community Service

3 Credits

Ethical and legal responsibilities of health personnel with emphasis on research applications. May not receive credit for both CHSS 216 and CHSS 316. Community Colleges only.

CHSS 295. Leadership/Mentorship Training for the CHSS Ambassadors Program

1 Credit

Leadership development for volunteers serving as CHSS ambassadors. Focus on public relations and CHSS undergraduate degree programs. Graded S/U.

Prerequisite: consent of instructor.

CHSS 299. Service Learning Experience in Human and Community Services

3 Credits

Exploration of contemporary social, civic, economic and ethical problems that require student participation in collaborative efforts within the community. Requires 30 clock hours of community based service for each credit. Graded: S/U. Contact instructor for approval.

Prerequisite(s): CHSS 101, HL S 150 and HL S 275 or consent of instructor.

Corequisite(s): HL S 295 or CHSS 216.

CMI - CINEMA & FILM/VIDEO PROD (CMI)

CMI 100. Introduction to the Creative Media Industry

3 Credits

This class is an introductory course for students interested in learning about the creative media industry and the Creative Media Institute. It offers a broad view of the entire industry including Marketing, Production, Budgets, Jobs, New Media Literacy, and Industry Standards. Students will listen to experts in the field, and become involved in open discussions about the industry and use new information to complete hands-on assignments in the laboratory. Restricted to Las Cruces campus only.

CMI 200. Sound Design 1

3 Credits

Focuses on the techniques for creating, recording and manipulating sounds through challenging sound design projects. May be repeated up to 3 credits. Crosslisted with: CMT 206.

Prerequisite(s)/Corequisite(s): CMI 100. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

CMI 205. Cinematography I

3 Credits

Theories and techniques of visual design in videography and the aesthetics of lighting. Crosslisted with: CMT 205.

Prerequisite(s)/Corequisite(s): CMI 100. Restricted to: ANVE, DFM majors. Restricted to Las Cruces campus only.

CMI 216. Editing I

3 Credits

Focuses on individual editing skills including capture, interface, basic cuts, and transitions. May be repeated up to 3 credits. Crosslisted with: CMT 195.

Prerequisite(s)/Corequisite(s): CMI 100. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

CMI 220. Drawing for Animation

3 Credits (2+4P)

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: ANVE, DFM, and CMT majors.

CMI 231. History of Animation

3 Credits

Explores the history of Animation as an art form and industry through readings, screenings, lecture and periodic guest speakers. May be repeated up to 3 credits. Restricted to: DFM,ANVE, G-CMI majors. Restricted to Las Cruces campus only.

CMI 232. Storyboarding

3 Credits

Examines effective writing principles for creating storyboards that communicate the overall picture of a project. There are timing, scene complexity, emotion and resource requirements. Crosslisted with: CMT 232 and ENGL 232. Restricted to: DFM, ANVE majors. Restricted to Las Cruces campus only.

CMI 233. Light, Shade, Render

3 Credits

This course will explore the theory and practice of 3D lighting and rendering methodologies. Techniques covered will implement cameras, lighting sources, textures, surface-mapping and algorithmic rendering to produce stylized and photo realistic images. Topics covered will include direct and indirect lighting, shaders that simulate physical substances and effects, rendering multiple passes and simulating physical lens effects. Restricted to: Main campus only. Restricted to DFM, ANVE majors.

Prerequisite(s): CMI 260, CMI 280, or Consent of Instructor.

CMI 235. Narrative: Principles of Story Across the Media

3 Credits

Examines the various strategies of written and visual storytelling: narrative structure and its principle components (plot, theme, character, imagery, symbolism, point of view), with an attempt to connect them to elements of contemporary forms of media expression, including screenwriting, playwriting, writing for documentaries and animation, etc. Crosslisted with: ENGL 235. Restricted to Las Cruces campus only.

CMI 240. Digital Illustration

3 Credits

Introductory course examining traditional artistic expressions and translating visual art experiences into a digital art medium to enhance visual storytelling. Students acquire basic principles of drawing and painting through hands-on experience manipulating tonal value, composition, form development, light and shadow, color theory, rendering realism, and graphic design. Restricted to: ANVE, DFM majors. Restricted to Las Cruces campus only.

CMI 245. 2-D COMPOSITING & FX**3 Credits (3+3P)**

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 un-rendered animation into a final piece with advanced 3D lighting, spacing, and digital effects so that it can achieve a dynamic, professionally rendered look. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

CMI 250. Beginning 2-D Animation**3 Credits**

Learn the basics of digital 2D animation by creating an animated short from a storyboarded scene using professional animation, imaging, and editing software. May be repeated up to 3 credits. Restricted to: DFM, ANVE majors. Restricted to Las Cruces campus only.

CMI 260. Foundations of 3D Animation**3 Credits**

The objective of this course is to provide a hands-on overview of the 3D animation production process. Students will be introduced to basic story development and the creation of computer generated assets and cinematic sequences. The course will survey specialty areas of digital animation and various software and techniques applied in entertainment and information media. Restricted to: Main campus only. Restricted to ANVE, DFM majors.

Prerequisite(s): CMI 235, CMI 232 or consent of instructor.

CMI 270. Rigging for 3D Animation**3 Credits**

This course will introduce principles and practices of current 3D animation rigging. Students will develop fundamental methods necessary to create character rigs. Students will learn aesthetic, technical, and optimization concepts as they apply to organic and mechanical designs. Topics will include: hierarchies, constraints, deformation rigging, skeleton creation, skinning, forward and inverse kinematics, controls, body and facial rigging. Restricted to: ANVE, DFM majors.

Prerequisite(s): CMI 260.

CMI 280. Modeling**3 Credits**

This course will introduce 3D modeling methods and current practices. Students will learn preliminary and detailed modeling techniques using industry standard software. Methods will emphasize formal and functional aspects of modeling as they apply to mechanical, organic, and sculpted topology for application in animation, games, and information media. Restricted to: Main campus only. Restricted to ANVE, DFM majors.

CMI 290. 3-D Animation**3 Credits**

Overview of the essentials and principles of 3D animation; creative methods for using industry standard tools to produce the illusion of movement for storytelling. Topics include, keyframe and curve animation, kinematics, cycle animation, camera animation, deformers, and constraints. Restricted to: Main campus only.

Prerequisite(s): CMI 260, CMI 250 or consent of instructor.

CMT-CREATIVE MEDIA TECHNOLOGY (CMT)

CMT 100. Introduction to Visual Communications**3 Credits**

Overview of the process of crafting a digital product from conception to final. Incorporates basic principles of art and design, typography, layout, color and imagery, logos and advertising basics. Same as OEGR 105.

CMT 108. Introduction to Media Technologies**1-3 Credits (1-3)**

Introduction to various media technologies. Restricted to: Community Colleges only. Cross-listed: OEGR 108

CMT 110. Introduction to Web Design**1 Credit**

Basics of creating simple web sites for personal use.

CMT 115. Digital Photography and Imaging I**3 Credits (2+2P)**

Principles and techniques of photography using digital equipment with an emphasis on lighting, focus, and composition.

CMT 120. Introduction to Creative Media**3 Credits (2+2P)**

Exploration and discovery of the creative processes through art, music, theater, narrative, and other avenues.

CMT 126. Film Crew Training I**9 Credits**

This course was designed in collaboration with the NM IATSE Local 480 union and the NM Film Office and focuses on providing hands-on training for students wishing to work on film crews. The course will offer an overview of the primary below-the-line craft areas of film production. Restricted to: Community Colleges only.

CMT 130. Introduction to Web Design**3 Credits (2+2P)**

Introduction to web development techniques, theory, and design. Incorporates HTML and industry-standard web editing software in developing various web sites. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ART 161 OR CMT 145.

CMT 135. Introduction to 3D Computer Animation**3 Credits (2+4P)**

Learning to work in a 3D environment. Introduction to the basics of modeling, animation, dynamics, and rendering. Working with polygons, NURBS and subdivisions, and editing in multiple interfaces. May be repeated for a maximum of 6 credits.

CMT 140. Print Media I**3 Credits (2+2P)**

Creation and design of publications and presentation materials using page layout software. May be repeated for a maximum of 6 credits.

CMT 142. Computer Illustration**3 Credits (2+2P)**

Preparation of digital graphics with a vector or draw program for use in print, web, video, animations, and multimedia. May be repeated for a maximum of 6 credits.

CMT 145. Image Processing I**3 Credits (2+2P)**

Design and creation of digital graphics using a raster or bitmap program for use in print, multimedia, video, animation and web. May be repeated for a maximum of 6 credits.

CMT 150. 2D Animation**3 Credits (2+2P)**

Concepts and techniques in storyboarding and creating interactive 2D animations for web, multimedia and video.

Prerequisites: CMT 142 or CMT 146.

CMT 151. Evolution of Electronic Games**3 Credits (2+2P)**

Focus on the evolution of video games and how they have shaped mainstream entertainment. May be repeated up to 6 credits.

CMT 155. Selected Topics**1-4 Credits**

Specific titles to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits. Same as OEGR 155.

CMT 156. Film Crew Training II**9 Credits**

The purpose of this course is to provide applied training in a specific film production crew craft area, in which a student has decided to specialize. The various craft areas include but are not limited to, Art Dept., Grip., Electric, Sound, Production Office, Script Supervision, Props, Set Dressing, Locations, Special Effects, Hair/Makeup, Wardrobe, Production Assistant/Set Operations. Restricted to: Community Colleges only.

Prerequisite(s): CMT 126.

CMT 160. Modeling and Animation**3 Credits (2+2P)**

Building on student's knowledge of 2D animation, covers modeling, animating objects and scenes in a 3D environment using various camera and lighting effects. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

CMT 165. Writing and Storyboarding**3 Credits (2+2P)**

Learning good writing principles to create storyboards and scripts that communicate the overall picture of the project, timing, scene complexity, emotion, and resource requirements.

Prerequisite: CMT 135 or CMT 160.

CMT 170. History of Film: A Global Perspective**3 Credits**

Explores the history of cinema from the earliest 19th century developments to the present digital video revolution. Offers students a broader base of understanding of the tools and methodologies used in the craft.

CMT 175. 3-D Character Design**3 Credits (2+4P)**

Focus on designing a character and then taking that design and building it in 3D using intermediate modeling techniques. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 135 or CMT 160.

CMT 180. Design Principles**3 Credits (2+2P)**

Techniques and theories of design principles, including layout foundations, logo building, type, color, and story-boarding and their application to print, web, animation and video. Restricted to: Community Colleges only.

Prerequisite(s): CMT 142 or CMT 146.

CMT 182. Environmental Modeling, Shading and Lighting**3 Credits (2+4P)**

Modeling design techniques to create natural and architectural environments to be used for animated films and gaming. Study of various lighting techniques, shading and shadowing.

Prerequisite: CMT 135 or CMT 160.

CMT 185. 3D Shading and Lighting Techniques**3 Credits (2+4P)**

Study of various global, scene and character lighting techniques, shading and shadowing, and creating atmospheres and reflections that bring computer generated 3D scenes to life. Examines environmental and studio lighting to bring real life experience into the digital production process.

Prerequisite: CMT 135 or CMT 160.

CMT 190. Digital Video Production I**3 Credits (2+4P)**

A hands-on study of the tools and techniques used to produce the independent video. Through the production of various short projects, the student explores how the ideas of the writer/director are translated into a visual story. May be repeated for a maximum of 6 credits.

CMT 192. Acting for the Camera**3 Credits (2+2P)**

Covers acting techniques, body movement, monologues and auditioning. Students will gain professional acting experience on camera as well as learn what is expected on a film or video set. Restricted to: Community College only.

CMT 195. Digital Video Editing I**3 Credits (2+2P)**

A study of the basic tools and techniques of non-linear digital video editing. May be repeated for a maximum of 6 credits.

CMT 200. Critical Game Studies**3 Credits (2+2P)**

Focus on creating a complete design document utilizing techniques and standards used in the industry today. May be repeated for up to 6 credits. Restricted to: Community Colleges only.

CMT 205. Cinematography**3 Credits (2+2P)**

Theory and techniques of visual design in cinematography and the aesthetics of lighting. May be repeated for a maximum of 6 credits. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 190.

CMT 206. Principles of Sound**3 Credits (2+2P)**

Study of soundtrack design theory, and the use of audio editing software that is compatible with media editing software to create soundtracks for different visual media. Pre/ Restricted to: Community Colleges only.

Corequisite(s): CMT 195.

CMT 210. Digital Video Production II**3 Credits (2+2P)**

Advanced techniques of the tools and application of professional film making. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 190.

CMT 215. Digital Video Editing II**3 Credits (2+2P)**

Advanced features of digital video, audio/music, and titling production software. Included are color correction, vector scopes, motion effects, and advanced editing techniques used by filmmakers. May be repeated for a maximum of 6 credits. Same as OEGR 215.

Prerequisite: CMT 195 or OEGR 210.

CMT 216. Digital Photography and Imaging II**3 Credits (2+2P)**

Provide understanding and skills needed for advanced digital capture, editing, optimizing and manipulating photographic images for print, web and multimedia applications. The course will prepare students to make more advanced technical and more refined aesthetic decisions relative to specific photographic applications. Restricted to: Alamogordo campus, Carlsbad campus, Dona Ana campus.

Prerequisite(s): CMT 115.

CMT 217. Layer Animation & 3D Applications in Photoshop**1 Credit**

This is an advanced course in Photoshop 2D techniques and motion graphic applications pertaining to the animation of Photoshop Layers juxtaposed over time and space relationships. Restricted to: CMT majors. Restricted to Community Colleges only.

Prerequisite(s): CMT 145.

CMT 218. Video for Social Interaction and Informal Commerce**3 Credits**

The use of DSLR video has opened the way for photographers to be able to add video as a component of expression. This course shows the ways that this tool can be used for on-line instructional videos, demonstrations and presentations. As more and more commercial entities become involved in YouTube and other social media, this becomes a vocationally viable form of visual communication. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: Community Colleges only.

CMT 220. Environmental Scene Design**3 Credits (2+4P)**

Modeling design techniques used to create environments and scenes for use in animated films and games. Investigation of both natural and architectural environments to be recreated in the virtual world.

Prerequisite: CMT 135 or CMT 160.

CMT 221. Internship**1-3 Credits**

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 9 credits. Consent of Instructor required. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

CMT 222. Pre-production Management**3 Credits (2+2P)**

Pre-production planning paperwork breakdowns, budgeting, and scheduling; taking a project from start to finish from a producers standpoint.

Prerequisite: CMT 190.

CMT 223. Media Production Services**1-3 Credits**

A design studio environment in which students obtain real-world experience while providing service to college and non-profit associations with faculty supervision using a variety of media. Can be used with permission to fulfill cooperative requirement. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 180 or ART 163.

CMT 224. Environmental Scene Design II**3 Credits**

Second level of 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. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 220.

CMT 225. Anatomical Character Design**3 Credits (2+4P)**

Focus on building anatomy-based 3D characters. Advanced study in NURBS, subdivisions, and polygon modeling techniques used to create fully functional and realist models. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 175.

CMT 226. Film Crew Cooperative Experience**3-6 Credits (3-6)**

Industry production experience in specific craft areas for film crew technicians who have successfully completed two semesters of FTTP. Restricted to: Dona Ana campus, Carlsbad campus.

Prerequisite(s): CMT 156.

CMT 227. Advanced Character Animation**3 Credits (2+2P)**

Focus on complex rigging techniques as well as utilizing advanced animation functions to blend multiple animations into complex animations. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): CMT 160.

CMT 228. Level Design Concepts**3 Credits (2+2P)**

Focus on the design and creation of video game levels. Dealing with the challenges and pitfalls of different video game genres. May be repeated for a maximum of 6 credits. Prerequisite: CMT 200

CMT 229. 3D Digital Sculpting**3 Credits**

Introduce students to the 3D Sculpting programs which are the industry standard sculpting programs. Students will learn how to create complex high polygon sculpts and normal maps and transfer the models into 3D studio Max and Autodesk Maya. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): CMT 160.

CMT 230. Web Design II**3 Credits (2+2P)**

Creating and managing well-designed, organized web sites using HTML and web development software. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only. Cross-listed: OEGR 230

Prerequisite(s): CMT 130.

CMT 235. Web Design for Small Businesses**3 Credits (2+2P)**

Technology and techniques for designing and building a web presence for small business. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only. Cross-listed: OEGR 235

Prerequisite(s): CMT 130.

CMT 236. Digital Audio Fundamentals**3 Credits (2+2P)**

Advanced digital audio post production and recording techniques using current entertainment industry-standard software and hardware. Restricted to: Community Colleges only.

CMT 237. Digital Audio Editing**3 Credits (2+2P)**

Techniques in digital audio composing, recording, editing, processing, MIDI & virtual instruments. Additional course topics include signal routing and processing, digital console design, audio signal paths, digital plug-ins, audio file management. Restricted to: Community Colleges only.

Prerequisite(s): CMT 236.

CMT 240. Print Media II**3 Credits (2+2P)**

Refining of technical design skills using advanced features of page layout software in preparing a variety of business-related documents. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 140 or OEGR 140.

CMT 242. Advanced Computer Illustration**3 Credits (2+2P)**

Advanced techniques in 2D vector drawing and fundamentals of 3D illustration for use in print, web, and multimedia applications. May be repeated for a maximum of 6 credits. Same as OEGR 270.

Prerequisite: CMT 142.

CMT 245. Image Processing II**3 Credits (2+2P)**

Advanced techniques in editing and manipulation of raster images for digital graphics for print, multimedia and web. May be repeated for a maximum of 6 credits. Same as OEGR 260.

Prerequisite: CMT 145.

CMT 247. Production Audio**3 Credits (2+2P)**

Essential tools and techniques in: field and studio recording and mixing, environmental assessment, film set protocol, various microphones, audio documentation, wildlines, ambient audio. Restricted to: Community Colleges only.

Prerequisite(s): CMT 190 and CMT 236.

CMT 248. Music Production and Mastering**3 Credits (2+2P)**

Introduction to fundamental tools and techniques in music production and mastering. Including: microphones and microphone techniques, live and studio recording, editing, mixing, and introduction to mastering digital audio. Restricted to: Community Colleges only.

Prerequisite(s): CMT 206 and CMT 236.

CMT 249. Layer Animation and 3D Applications in Photoshop**3 Credits**

This is an advanced course in Photoshop 3D techniques and motion graphic applications pertaining to the animation of Photoshop Layers juxtaposed over time and space relationships. May be repeated up to 6 credits. Restricted to Community Colleges only.

Prerequisite(s): CMT 245.

CMT 250. Advanced Graphics for Digital Media**3 Credits (2+2P)**

Advanced techniques in design and creation of high-level 2D animations and interactive interfaces for web, multimedia, and video. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 150.

CMT 252. Game Tools and Techniques**3 Credits (2+2P)**

Focus on the different engines and gaming technologies that power the games of today. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 200.

CMT 253. History of Animation**3 Credits**

Exploration of animation as art form and industry. Material spans from the roots of animation before film technology to modern commercial and artistic animated productions. Restricted to: Community Colleges only.

CMT 254. History of Media Design**3 Credits**

An introduction to the principles of design history and theory within a chronological framework of historical and emerging media.

CMT 255. Special Topics**1-4 Credits**

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits.

CMT 256. Typography**3 Credits**

Foundation in typography with an emphasis on history of typography and the practical application and impact of font choices for print, web, animation and video. Deals with studies in font or letter construction and font choices focusing on design, application, incorporation, and visual impact. Restricted to: Community Colleges only.

Prerequisite(s): CMT 142.

CMT 258. Advanced Camera Techniques**3 Credits (2+2P)**

Professional camera techniques and training for electronic news gathering and studio filmmaking. Utilizes high-end handheld shooting techniques, cranes, dollies, and steadicam training. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 190.

CMT 260. 3D Special Effects**3 Credits (2+4P)**

Creating advanced virtual special effects for both rigid and soft bodies. Using MEL, dynamic principles, mixing nodes, and advanced particle systems. How to drive particles over surfaces, add texture to flow, create surface tensions, and use collision events to drive texture. Study of integrating computer-generated images with real-life video and audio.

Prerequisite: CMT 160 or CMT 225.

CMT 265. Personal Character Development**3 Credits (2+4P)**

Focus on the development of personal character(s), from sketch to render. Develop complete biographies of character, then build, skin and animate with as many personal attributes as possible.

Prerequisite: CMT 225.

CMT 266. Audio Postproduction**3 Credits (2+2P)**

Application of techniques for the final postproduction phase of audio track editing, mixing and mastering for film, music, and animation; including Automated Dialog Replacement (ADR) and foley. Restricted to: Community Colleges only.

Prerequisite(s): CMT 206, CMT 236, CMT 237, CMT 247 & CMT 248.

CMT 275. Advanced Web Techniques**3 Credits (2+2P)**

Creating and managing complex web sites using advanced techniques and tools. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisites: CMT 145 and CMT 230.

CMT 276. Advanced Photography Workshops**1 Credit**

This is a series of 1-credit workshops offering specialized and intense advanced skill training and upgrading applications of photography for commercial purposes and training in photographic skills and styles presented by a variety of professional lecturers. May be repeated up to 7 credits. Restricted to Community Colleges only.

Prerequisite(s): CMT 115.

CMT 285. Print Media III**3 Credits (2+2P)**

Refinement of skills needed to prepare a variety of documents for print and the service bureau. May be repeated for a maximum of 6 credits.

Prerequisite: CMT 140 or CMT 240.

CMT 290. Advanced 3d Animation Workshop A**3 Credits (2+4P)**

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits.

Prerequisite: consent of instructor.

Corequisite: CMT 291.

CMT 291. Advanced 3d Animation Workshop B**3 Credits (2+4P)**

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits.

Prerequisite: consent of instructor.

Corequisite: CMT 290.

CMT 292. Creative Media Studio**3 Credits (2+2P)**

A studio environment where students specialize in creating film-festival quality and portfolio-ready projects under the supervision of faculty. May be repeated for a maximum of 6 credits.

Prerequisites: CMT 190 and CMT 195 or CMT 160.

CMT 294. Creative Media Studio II**3 Credits**

Second level of studio environment where students specialize in creating film-festival quality and portfolio ready projects under the supervision of faculty. Restricted to Community Colleges campuses only.

Prerequisite(s): CMT 292.

CMT 295. Professional Portfolio Design and Development**1-3 Credits**

Personalized design and creation of the student's professional portfolio including hard-copy, demo reel, and online. May be repeated for a maximum of 6 credits. Same as OEGR 280.

Prerequisite: consent of instructor.

CMT 298. Independent Study**1-3 Credits**

Individual studies directed by consenting faculty with prior approval of department head. May be repeated for a maximum of 6 credits. Same as OEGR 298.

Prerequisite: minimum GPA of 3.0 and sophomore standing.

COLL-COLLEGE (COLL)

COLL 101. College/Life Success**1-3 Credits**

Provides students with an opportunity to cultivate the skills, values, and attitudes necessary to become confident, capable students, and contributing community members. Topics include time management, memory techniques, relationships, health issues, money management, and college and community resources.

COLL 103. Managing Your Money**1 Credit**

Principles and strategies for effective money management. Includes financial goal setting, both short and long term. Explores the relationship between career and income earning potential. Explores issues of credit and debt management and prevention of identity theft.

COLL 108. Academic Reading and Study Skills**1-4 Credits**

Introduction to and practice with strategies for effective reading and studying at the college level. Provides laboratory.

COLL 111. Academic Skills for Mathematics**1-3 Credits (1-3)**

Emphasis on study skills for success in math, up to the calculus level, tailored to meet individual student needs. Topics include test preparation strategies, efficient time management and practice methods, and introduction to and practice with learning software. Consent of instructor required.

COLL 120. Career Exploration**1 Credit**

Survey of careers possible with community college associate degrees. Information on how to make a career choice.

COLL 155. Special Topics**1-4 Credits**

Covers specific study skills and critical thinking topics. Specific sub-titles to be listed in the Schedule of Classes. May be repeated for a maximum of 8 credits.

COLL 201. Critical Thinking Skills**3 Credits**

Introduction to critical thinking processes. Develops higher order thinking necessary to evaluate clearly, logically, and accurately one's academic and life experiences. Practical emphases on assertive thinking and perspectives.

Prerequisite: placement scores for CCDE 110N or higher.

COMM-COMMUNICATION (COMM)

COMM 253G. Public Speaking

3 Credits

Principles of effective public speaking, with emphasis on preparing and delivering well-organized, logical, and persuasive arguments adapted to different audiences.

COMM 265G. Principles of Human Communication

3 Credits

Study and practice of interpersonal, small group, and presentational skills essential to effective social, business, and professional interaction.

COMM 285. Survey of Communication Theory

3 Credits

Exploration of major theories, concepts and methods of research in the study of human communication. Primarily for majors.

COMM 290. Independent Study

1-3 Credits

Individualized, self-paced projects for students with a special interest in communication topics. May be repeated for a maximum of 6 credits.

Prerequisites: COMM 265G and sophomore standing.

COMM 291. Special Topics

1-3 Credits

Specific subjects and credits to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

CTFM-CLTHNG/TXTLS/FSHN MRCHDSG (CTFM)

CTFM 178. Fundamentals of Fashion

3 Credits

Survey of the fashion business from fiber to end product.

CTFM 202. Fashion Practicum

1-3 Credits (1-3)

Applied field experience in the related areas of apparel design, fashion merchandising, and textile science. May be repeated up to 3 credits. Restricted to: CTFM majors. Restricted to Las Cruces campus only.

CTFM 270. Fashion Illustration

3 Credits (1+4P)

Human figure sketches and fashion illustration as a form of communication. Emphasis on color, proportion, cut, and fabric detail.

Prerequisites: CTFM 255, ART 110G.

CTFM 273. Concepts in Apparel Construction

3 Credits (1+4P)

Application of generalizations and principles of garment construction to varied fabrics and designs. Analysis and evaluation of apparel merchandise with emphasis on the quality of garment construction. Restricted to: Main campus only. Restricted to CTFM, FCSE majors.

CTFM 289. Fashion Studio I

3 Credits

Applied principles in the criteria of pattern making: flat pattern and draping techniques. Projects will require three dimensional approaches in apparel design. Restricted to: CTFM majors. Restricted to Las Cruces campus only.

DANC-DANCE (DANC)

DANC 101G. Dance Appreciation

3 Credits

An investigation of movement, dance and choreographic work as a vehicle for understanding culture. Includes concepts in dance appreciation, themes and purposes of dance analysis of dance works, exposure to different styles of dance and understanding the roles and effects of major historical periods. Restricted to: Main campus only.

DANC 102. Introduction to Hip-Hop Dance

1 Credit

This course is an introduction to Hip-Hop dance. The movement material will cover West coast and Southern styles with the inclusion of the history and evolution of Hip-Hop dance. No previous dance experience required. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

DANC 109. Argentine Tango I

1 Credit

Introduction to skills and techniques of Argentine Tango.

DANC 118. West Coast Swing I

1 Credit

Students will learn to dance the smooth style of Swing. The West Coast Swing may be danced to ANY style of music that has a beat (Country, R&B, Hip Hop, Disco, House). Also featured is the Hustle (fast paced and exhilarating). May be repeated up to 4 credits. Restricted to Las Cruces campus only.

DANC 120. Ballet Folklorico I

1 Credit

Introductory course in folklorico dances of New Mexico and Mexico. May be repeated for a maximum of 2 credits.

DANC 121. Beginning Country Western Dance

1 Credit

Beginning Country Western dance, including Country Western two-step, nightclub two-step, polka, and Country Western line dance. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 122. Introduction to Latin Social Dance

1 Credit

Introduction to Latin social dance for non dance majors. Students will learn basic Latin dance technique and partnering work. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 123. Ballet Technique I

1 Credit

Introduction to basic ballet technique, vocabulary, and history. Includes practical application of anatomical placement, posture and control through participation and academic study. May be repeated for a maximum of 2 credits.

DANC 124. Jazz Technique I

1 Credit

Introduction to basic jazz technique, styles, and history through participation and academic study. May be repeated for a maximum of 2 credits.

DANC 125. Introduction to Ballroom Dance

1 Credit

Introduction to ballroom dance for non dance majors. Students will learn basic ballroom technique and partnering work. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 126. Modern Dance Technique I**1 Credit**

Introduction to and development of basic modern dance technique, history, and aesthetics through participation and academic study. May be repeated for a maximum of 2 credits.

DANC 127. Tap Dance I**1 Credit**

Introduction to skills and techniques of tap dance. May be repeated for a maximum of 2 credits.

DANC 128. Latin Club Dance**1 Credit**

Introduction to the most popular Latin Club Dances to include the Salsa, Merengue, and Bachata. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 129. Flamenco I**1 Credit**

Introduction to skills and techniques of flamenco dance. May be repeated for a maximum of 2 credits.

DANC 151. Master Works**1 Credit**

This course investigates the work of master choreographers in contemporary, Spanish, and social dance styles. Students will engage in exploring concepts in dance appreciation, themes and purposes of dance by analyzing dance works using principles, elements, and process of compositional design. This course will require students to communicate their opinions through verbal discussions, group projects, and written assignments. Restricted to Las Cruces campus only.

DANC 200. Dance Pedagogy: Educational Theory**1 Credit**

This course will examine how people learn cognitively, physically, and emotionally so that students can become better at self-teaching and self-assessment. Students will study several educational theories and how they relate to dance. Restricted to Las Cruces campus only.

DANC 202. Dance Ensemble**1 Credit**

This course will include learning the elements of dance composition. The students in this course will be the dancers for the students in Dance Choreography II. This course is a requirement for freshman dance majors whose emphasis is in contemporary dance. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 203. Dance Production I**1 Credit**

Students will learn the production process of dance events which may include performances, festivals, workshops, conferences. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 204. Dance Sport I**1 Credit**

Performance-based, team formation dance in a variety of Latin and ballroom dances. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

Prerequisite(s): Consent of instructor and one of DANC 121, DANC 122, DANC 125, or DANC 128.

DANC 205. Contemporary Dance Ensemble I**1 Credit**

Performance-based instruction for students pursuing a career in contemporary dance. Instruction includes contemporary dance repertory and choreography for stage, outdoor arenas, and site-specific areas. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 206. Spanish Dance Ensembles I**1 Credit**

Performance-based instruction for students pursuing a career in dance with an emphasis in Spanish Dance. Instruction includes dance repertory and choreography for stage, outdoor arenas, and site-specific areas. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 209. Argentine Tango II**1 Credit**

Intermediate study in Argentine tango. Learn advanced patterns, techniques and partnering skills. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

Prerequisite(s): Consent of instructor.

DANC 210. Classical Spanish II**2 Credits (1+3P)**

The study of theory, techniques, and practice of Classical Spanish at the intermediate level. Includes historical and cultural contexts of this art form. May be repeated up to 8 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 129.

DANC 212. Intermediate Hip-Hop Dance**2 Credits**

This course is for students who have experience in Hip-Hop dance. The movement material will cover West coast and Southern styles with the inclusion of the history and evolution of Hip-Hop dance. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

DANC 218. West Coast Swing II**2 Credits**

Students will take their West Coast Swing & Hustle to the next level. Learn Intermediate and Advanced figures and techniques in both dances. Students will also enjoy advanced study on musicality and blending to create new amalgamations as well as practice in advanced leading & following techniques. May be repeated up to 8 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 118.

DANC 221. Country Western Dance**2 Credits**

Intermediate skills in country/western two-step, nightclub two-step, polka, and Western line dances. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 121 or consent of instructor.

DANC 222. Bronze American Rhythm**2 Credits (1+2P)**

Bronze level American Rhythm patterns, techniques, and partnering with emphasis on elements of dance. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 223. Ballet Technique II**2 Credits**

Continued study of classical ballet technique, vocabulary, and history through participation and academic study. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

DANC 224. Jazz Technique II**2 Credits**

Continued study of jazz technique and history through participation and academic study. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

DANC 225. Bronze American Smooth**2 Credits (1+2P)**

Bronze level American Smooth patterns, technique, and partnering with an emphasis on the elements of dance. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 125 or consent of instructor.

DANC 226. Modern Dance Technique II**2 Credits**

Continued study of postmodern dance technique and history through participation and academic study. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

DANC 227. Tap Dance II**1 Credit**

Continued study of skills and techniques of tap dance at the advanced level. May be repeated for a maximum of 2 credits.

Prerequisite: DANC 127 or consent of instructor.

DANC 229. Flamenco II**2 Credits**

The study of theory, techniques and practice of Flamenco at the intermediate level. Includes historical and cultural contexts of this art form. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

Prerequisite(s): Dance 129.

DANC 232. Bronze International Latin**2 Credits**

This is the style of Latin dance that is danced around the globe and is featured in the World DanceSport Championships. Students will learn the Bronze Level figures and techniques in four (4) International Style dances: Rumba, Cha Cha, Samba & Jive and the techniques. May be repeated up to 8 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 222.

DANC 235. Bronze International Standard**2 Credits**

This is the style of Ballroom dance that is performed around the globe and is featured in the World DanceSport Championships. Learn the Bronze Level figures and techniques in five (5) International Style dances: Waltz, Tango, Viennese Waltz, Foxtrot & Quickstep. Students will focus on understanding technical Elements of Dance, memorizing and performing routines. May be repeated up to 8 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 225.

DANC 269. DanceSport Choreography I**2 Credits**

An introduction to the process and theory behind creating original choreography for both performance and competition level dance. With focus on the individual couple, gain necessary skills, knowledge and practice in choreographing Ballroom, Latin, Swing &/or Nightclub dance routines in various practical settings. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 275. Dance Studio Management**3 Credits**

The study and practice of studio management. Includes study of financial procedures, marketing, entrepreneurship, leadership, management, fund-raising and other related topics. Restricted to majors and minors.

DANC 279. Flamenco Choreography I**2 Credits**

Students develop and perform solo dance studies with an emphasis placed on the development of personal movement vocabulary, phrase building, and the exploration of choreographic tools for Flamenco on stage. Discussion, critiquing, and descriptive writing about their choreographic processes will supplement direct physical work. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 280. Improvisation I**1 Credit**

Introduction and development of basic movement improvisation skills.

DANC 289. Principles of Choreography I**2 Credits**

Solo dance choreography technique. Course must be passed with a grade of C or higher. Consent of instructor required. Restricted to: Main campus only. Restricted to Dance Majors Dance Minors majors.

DAS-DENTAL ASSISTING (DAS)

DAS 101. Introduction to Dental Assisting**2 Credits**

An introduction to the duties and responsibilities of a dental assistant. Includes brief lessons on head and neck anatomy, chair side assisting, sterilization techniques, dental office emergencies, and dental office management. Restricted to: Community Colleges only.

DAS 111. Bio-Dental Science**4 Credits (3+3P)**

An introduction to biomedical and dental sciences with emphasis on head and neck anatomy and tooth morphology. Includes microbiology, general anatomy and physiology, histology and embryology of the oral cavity, pathology and pharmacology as they relate to dentistry.

Corequisite(s): DAS 113, DAS 115, and DAS 117.

Prerequisite(s)/Corequisite(s): PSY 201G, PHLS 150G, and HNDS 251.

Prerequisite(s): ENGL 111G, BIOL 154, and (COMM 253G or COMM 265G).

Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 113. Dental Assisting I**4 Credits (2+6P)**

Introduction to chair side assisting procedures, instrumentation, infection control, equipment safety and maintenance, dental office emergencies, and management of pain and anxieties.

Corequisite(s): DAS 111, DAS 115, and DAS 117.

Prerequisite(s)/Corequisite(s): PSY 201G, PHLS 150G, and HNDS 251.

Prerequisite(s): ENGL 111G, BIOL 154, and (COMM 253G or COMM 265G).

Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 115. Dental Radiology**3 Credits (2+3P)**

Radiation physics, hygiene, and safety theories. Emphasis on the fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, and other ancillary radiographic techniques.

Corequisite(s): DAS 111, DAS 113, and DAS 117.

Prerequisite(s)/Corequisite(s): PSY 201G, PHLS 150G, and HNDS 251.

Prerequisite(s): ENGL 111G, BIOL 154, and (COMM 253G or COMM 265G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 117. Dental Materials**3 Credits (2+3P)**

Composition, chemical and physical properties, manipulation and uses of dental materials. Laboratory experiences include the application and manipulation of various materials used in dentistry.

Corequisite(s): DAS 111, DAS 113, and DAS 115.

Prerequisite(s)/Corequisite(s): PSY 201G, PHLS 150G, and HNDS 251.

Prerequisite(s): ENGL 111G, BIOL 154, and (COMM 253G or COMM 265G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 123. Dental Assisting Practicum**6 Credits (1+15P)**

This course is the clinical component of the program that combines general practice and experiences in the work place. Seminar topics focus on the practicum experiences and critique of performance. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117.

Corequisite(s): DAS 125, DAS 127, and DAS 129.

DAS 125. Professional Concepts**3 Credits**

Emphasis on the development of professionalism for the dental office. Includes oral communication, psychology, patient relations, problem-solving skills, stress management, and employability in addition to dental jurisprudence and ethics. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117.

Corequisite(s): DAS 123, DAS 127, and DAS 129.

DAS 127. Dental Office Management**2 Credits**

This capstone course is an introduction to business office procedures, including telephone management, appointment control, accounts payable, completion of third party reimbursement forms, inventory control data entry for charges and payments, management recall, basic dental computer software and operating basic business equipment. Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117.

Corequisite(s): DAS 123, DAS 125, and DAS 129.

DAS 129. Preventive Dentistry**2 Credits**

Prevention of dental diseases, oral hygiene instruction, fluoride, community dental health, and nutrition. Development, implementation and evaluation of a community dental health project. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117.

Corequisite(s): DAS 123, DAS 125, and DAS 127.

DAS 130. Dental Assisting II**4 Credits (2+6P)**

Continuation of chair side assisting skills and techniques with a major emphasis on four-handed dentistry. This capstone course includes specialties within dentistry and expanded chair side functions. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, DAS 117, DAS 123, DAS 125, DAS 127, and DAS 129.

DAS 131. Dental Office Management I**3 Credits**

Introduction to the field of dental office management with emphasis placed on professional verbal and written communication skills utilized within the dental office. Content includes dental terminology, charting, and back office experience as they relate to dental reception and management.

Prerequisite(s)/Corequisite(s): DAS 101, AHS 120, and AHS 202.

Prerequisite(s): ENGL 111G. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 133. Dental Office Management II**3 Credits**

Places emphasis on computer programs specifically designed for dental office management (Dentrix, Sof Dent, etc.) Expanded course content on oral communication and telephone skills, appointment scheduling, patient relations, stress management solutions, and comprehensive critical thinking/problem solving skills.

Prerequisite(s)/Corequisite(s): AHS 202. **Prerequisite(s):** ENGL 111G, DAS 101, and AHS 120. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 155. Special Topics**1-6 Credits**

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

DENTAL HYGINE/HYGIENIST (DHYG)

DHYG 110. Preclinical Dental Hygiene**3 Credits**

Basic scientific principles and current theory, prevention of disease transmission, ethical and professional treatment of patients, clinical learning preparation, and introduction to comprehensive patient care. Offered concurrently with DHYG 112 to provide dental hygiene students with introductory knowledge, skills and attitudes to function in the clinical setting. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 112. Preclinical Dental Hygiene Lab**3 Credits**

Clinical application to basic theories and procedures used in dental hygiene practice. Techniques of instrumentation used in performing diagnostic, preventive and therapeutic services utilized when providing comprehensive patient care. Student will practice these techniques on manikins and student partners in the clinic. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 114. Oral Histology and Embryology**2 Credits**

Introduction and description of general histology and embryology with emphasis on the microscopic structures of enamel, dentin, pulp, cementum, periodontal ligament, bone, oral mucosa, epithelial attachment and development of orofacial structures. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 116. Head and Neck Anatomy**3 Credits**

Comprehensive study of the anatomy of the head and neck regions, including skeletal, nervous, circulatory, lymphatic, and muscular systems. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 117. Dental Anatomy**2 Credits (2+1P)**

A detailed study of nomenclature, morphologic characteristics, and physiologic relationships of human primary and permanent teeth as related to the clinical practice of dental hygiene. Laboratory activities develop observation and dexterity skills. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 118. Dental Radiology**3 Credits (3+4P)**

Study of radiation physics, hygiene and safety theories. Fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, ancillary radiographic techniques and application to dental hygiene treatment. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 120. Dental Hygiene Theory I**3 Credits**

Continuation of the theoretical basis for dental hygiene clinical practice. Emphasis on emergency care, planning dental hygiene care, health promotion and disease prevention, oral rehabilitation and care of appliances, modifications of dental hygiene care through the life-span, and an introduction to medically compromised patients. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 122. Clinical Dental Hygiene I**3 Credits**

Application of dental hygiene procedures on a variety of clinical patients under direct supervision of faculty. Emphasis on patient assessment and diagnosis, treatment procedures, appointment planning and prevention techniques. Theory is simultaneously related to practical experience. Offered concurrently with DHYG 120. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 124. General and Oral Pathology**3 Credits**

Introduction to general pathology with focused study of diseases and disorders of the oral cavity and their interrelationship with body systems; developmental anomalies of the teeth and jaws; manifestations of disease in the oral cavity, head and neck. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 126. Periodontology**3 Credits**

Study of normal and diseased periodontium to include the structural, functional and environmental factors. Emphasis on etiology, pathology, evaluation of disease, treatment modalities, and therapeutic and preventative periodontics relative to the hygienist's role as a co-therapist in a contemporary practice setting. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 132. Clinical Dental Hygiene II**2 Credits**

Continuation of clinical skills, patient assessment and diagnosis, treatment and appointment planning, preventive techniques and application of dental hygiene procedures at an intermediate level under the direct supervision of faculty. Clinical-based instruction helps students synthesize new knowledge, apply previous knowledge, and gain experience managing the workflow. Theory is simultaneously related to practical experience. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

Prerequisite(s): "C" or above in DHYG 120, DHYG 122, DHYG 124, DHYG 126, DHYG 134.

Corequisite(s): DHYG 218.

DHYG 134. Dental Materials**3 Credits (2+2P)**

Study of the composition, chemical and physical properties, manipulations, and uses of dental materials. Emphasis on materials and procedures for which the dental hygienist is directly responsible. Laboratory experiences include application and manipulation of various materials used in dentistry. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 210. Dental Hygiene Theory III**2 Credits**

Advanced theory of dental hygiene and information on periodontal therapies relative to the hygienist's role as a co-therapist in clinical practice. Continuation of the study of dental hygiene care for medically comprised patients and an introduction to special needs patients. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 212. Clinical Dental Hygiene III**4 Credits**

Continuation of clinical skills, patient assessment and diagnosis, treatment and appointment planning, preventive techniques and applications of dental hygiene procedures at the intermediate to competent level under supervision of faculty. Emphasis on dental hygiene treatment for the medically compromised and periodontally involved patients. Theory is simultaneously related to practical experience. Offered concurrently with DHYG 210. May be repeated up to 4 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 214. Dental Pharmacology**3 Credits**

Study of the pharmacologic aspects of drugs and drug groups with which the dentist and dental hygienist are directly and indirectly concerned. Emphasis is placed on nomenclature, origin, physical and chemical properties, preparation, modes of administration and effects of drugs upon the body systems. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 215. Medical and Dental Emergencies**2 Credits**

This course provides an overview of medical and dental emergencies encountered most frequently in the dental setting. It also provides the student with knowledge and techniques on how to address those emergencies should they occur. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 217. Research Methodology**2 Credits**

This course provides an introduction to the principles and application of research methods in social, behavioral and medical research. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 218. Pain and Anxiety Management**2 Credits**

Study of the application of various physical, chemical, and psychological modalities to the prevention and treatment of preoperative and postoperative patient anxiety and pain. Emphasis on administration of local anesthesia and nitrous oxide. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 219. Pain and Anxiety Management Clinical**1 Credit**

Clinical application of concepts learned in DHYG 218. Emphasis on the administration and techniques of local anesthesia and monitoring nitrous oxide. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

Prerequisite(s): DHYG 218.

DHYG 220. Dental Hygiene Theory IV**3 Credits**

Theoretical preparation for advanced clinical practice. In-depth study of dental hygiene care for patients with special needs. Case Study presentations and a Board Review are utilized to demonstrate the synthesis of comprehensive dental hygiene knowledge, skills and attitudes. The most current dental and dental hygiene technology will be reviewed as it related to clinical practice. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 222. Clinical Dental Hygiene IV**4 Credits**

Clinical sessions combine basic and advanced dental hygiene skills with time management techniques essential for private practice. Comprehensive patient care to include assessment, dental hygiene diagnosis, treatment planning, implementation and evaluation of dental care, nonsurgical periodontal therapy, adjunct clinical procedures, ultrasonic instrumentation, patient management, sealants, and comprehensive programs for control of oral diseases will be emphasized. Theory is simultaneously related to practical experience. Students are encouraged to develop independent decision-making with minimal faculty supervision. May be repeated up to 4 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 224. Principles of Practice**2 Credits**

Examination of the dental hygienist's role in both traditional and non-traditional employment settings. Career planning, resume preparation and interviewing are practices. An understanding of the law, professional ethics of dental hygiene and the need for lifelong learning are emphasized. Future roles of the dental hygienist and emerging issues in dental hygiene will be explored. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 225. Dental Public Health Education**3 Credits**

Study of principles and concepts of community public health and dental health education. Emphasis on dental epidemiology and statistical methods, community assessment, educational planning, implementation, and evaluation, scientific review of literature, and classroom presentation. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 255. Special Topics in Dental Hygiene**1-6 Credits (1-6)**

Study of special topics related to the advanced practice of dental hygiene. May include educational methodology as well as applications in clinical practice, research, or community service. Consent of instructor required. Restricted to: Community Colleges only. Restricted to DHYG majors.

DMS-DIAGNOSTIC MED SONOGRAPHY (DMS)

DMS 101. Introduction to Sonography**2 Credits**

Introduction to the principles of ultrasound, terminology, scanning planes and applications of ultrasound. Includes observation in an ultrasound facility. All DMS courses are restricted to students who have been accepted into the Diagnostic Medical Sonography Program. Restricted to: Community Colleges only. Restricted to DMS majors.

Corequisite(s): DMS 112, DMS 113.

DMS 110. Ultrasound Physics**4 Credits**

Properties of sound and its use in diagnostic imaging; technical components involved in ultrasound imaging; how to use ultrasound equipment during lab sessions; the bioeffects of high-frequency sound; and artifacts created during imaging. Restricted to: DMS majors. Restricted to Dona Ana campus only.

DMS 112. Abdominal Sonography I**4 Credits (3+3P)**

Includes anatomy, physiology, and pathology of the abdominal organ systems; scanning techniques, ultrasound appearance of normal structures, and changes seen with pathologic conditions. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

Corequisite(s): DMS 116, DMS 101, DMS 113.

DMS 113. GYN Sonography**3 Credits (2+2P)**

Includes female pelvic anatomy, scanning techniques, pelvic pathology, sonography, and Doppler findings in normal and abnormal exams, introduction to human embryology, and first trimester pregnancy. Restricted to: Community Colleges only. Restricted to DMS majors.

Corequisite(s): DMS 101, DMS 112, DMS 116.

DMS 114. OB Sonography**4 Credits (3+2P)**

Includes review of human embryology, normal fetal anatomy, obstetrical scanning techniques, fetal biometry, fetal abnormalities, fetal Doppler, the role of ultrasound in genetic testing and chromosome abnormalities, fetal echocardiography, and congenital heart abnormalities. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 115. Abdominal Sonography II**3 Credits (2+2P)**

Includes anatomy, physiology, and pathology of superficial structures, including female breast, thyroid, and neck structures, male pelvis, and musculoskeletal system; scanning techniques, ultrasound appearance of normal structures, and changes seen with pathologic conditions; abdominal Doppler principles of applications and organ transplant sonography. Restricted to: DMS majors. Restricted to Dona Ana campus only.

DMS 116. Introduction to Vascular Technology**3 Credits (2+2P)**

Basic ultrasound physics and principles, peripheral vascular anatomy, hemodynamics, Doppler evaluation, peripheral vascular scanning techniques, physiologic testing and the more common pathologies of the carotid arteries, and the peripheral vascular system. Restricted to: Community Colleges only. Restricted to DMS majors.

Corequisite(s): DMS 101, DMS 112, DMS 113.

DMS 117. Advanced Sonographic Procedures**2 Credits**

This course will focus on the anatomy, pathology, laboratory values and sonographic appearances of organ transplants, the musculoskeletal system and the breast. Students will also demonstrate knowledge in age related competency (i.e. neonates, pediatric patients, adolescents, adults, and Obstetric patients) and be able to respond appropriately to parental needs. Restricted to: DMS majors. Restricted to Community Colleges only.

DMS 118. Neurosonography**2 Credits (1+3P)**

This course will cover detailed anatomy of neonatal brain and central nervous system. This course includes scanning techniques and indications for performing neurosonograms of the newborn; as well as common pathologies seen in the fetal and newborn brain and central nervous system. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 120. Clinical Internship I**4 Credits**

Provides the practical, hands-on experience required for both the national registry exam and for quality patient care. Students will spend approximately 32 hours per week at their assigned clinical site performing ultrasound exams under the supervision of the clinical staff. Students return to campus periodically to participate in advanced seminars. Six-week course. Restricted to: DMS majors. Restricted to Community Colleges only.

DMS 122. Clinical Internship II**4 Credits**

Provides the practical, hands-on experience required for both the national registry exam and for quality patient care. Students will spend approximately 32 hours per week at their assigned clinical site performing ultrasound exams under the supervision of the clinical staff. Students return to campus periodically to participate in advanced seminars. Six-week course. Restricted to: DMS majors. Restricted to Community Colleges only.

DMS 124. Clinical Internship III**8 Credits**

Provides the practical, hands-on experience required for both the national registry exam and for quality patient care. Students will spend approximately 32 hours per week at their assigned clinical site performing ultrasound exams under the supervision of the clinical staff. Students return to campus periodically to participate in advanced seminars. Restricted to: DMS majors. Restricted to Dona Ana campus only.

Prerequisite(s): DMS 122 or Consent of Instructor.

DMS 126. Clinical Internship IV**8 Credits**

Provides the practical, hands-on experience required both for national certification and for quality patient care. Students will spend approximately 32 hours per week at their assigned clinical site performing ultrasound exams under the supervision of the clinical staff. Students will learn more difficult exams and will work on case reports and course review materials. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): DMS 124 or consent of instructor.

DRFT-DRAFTING (DRFT)

DRFT 101. Introduction to Drafting and Design Technologies**1 Credit**

Professional and student organizations associated with the Drafting and Design Technologies program, degree requirements, employment skills and work habits, and university and college policies and procedures will be explored. Students will be introduced to the current learning management system and career-readiness certification. Restricted to Community Colleges only.

DRFT 105. Technical Drawing for Industry**3 Credits (2+2P)**

Technical sketching, basic CAD, and interpretation of drawings with visualization, speed and accuracy highly emphasized. Areas of focus include various trades such as machine parts, welding, heating and cooling, and general building sketches/plan interpretation.

DRFT 108. Drafting Concepts/Descriptive Geometry**2 Credits (1+2P)**

Basic manual drafting skills, sketching, terminology and visualization. Graphical solutions utilizing applied concepts of space, planar, linear and point analyses. Metric and S.I. units introduced.

DRFT 109. Computer Drafting Fundamentals**3 Credits (2+2P)**

Introduction to computer-aided drafting. Principles and fundamentals of drafting using the latest version of AutoCAD software. Crosslisted with: C E 109 and E T 109

DRFT 112. Drafting Concepts/Computer Drafting Fundamentals I**4 Credits (2+4P)**

Basic drafting skills, terminology, and visualization. Introduction to principles and fundamentals of computer-aided drafting. Same as E T 106.

Prerequisites: OECS 207, OECS 125 or consent of instructor.

DRFT 113. Drafting Concepts/Computer Drafting Fundamentals II
4 Credits (2+4P)

Drafting for mechanical/industrial applications; machine part detailing, assemblies in orthographic, isometric, auxiliary, oblique, and sectional views. Two-dimensional AutoCAD with introduction to 3-D AutoCAD. Same as E T 216. Restricted to: Community Colleges only.

Prerequisite: DRFT 112.

DRFT 114. Introduction to Solid Modeling
3 Credits (2+2P)

2D mechanical drafting and 3D mechanical solid modeling utilizing the latest version of AutoCAD software. Industry dimensioning and annotation standards will be emphasized. 2D multi-view working drawings, 3D solid models, and basic 3D model assemblies will be introduced. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 109.

DRFT 115. General Construction Safety
3 Credits

Overview of general construction safety related to building, highway and road construction, and surveying field work for entry-level individuals. Students will also have the opportunity to earn a 10-hour construction industry OSHA card. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

DRFT 120. Survey Equipment Fundamentals
2 Credits

Introduces the application and the setup to the following surveying equipment: Automatic Level, Total station, and Global Positioning Systems. Field safety knowledge is required. Restricted to Community Colleges only.

DRFT 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 161. Introduction to Construction Management
3 Credits

Introduction to the construction industry and construction management; construction documents and contracts; project planning, scheduling and administration; construction site management; and the role of Building Information Modeling (BIM) in construction management. Pre/ Restricted to: Community Colleges only.

Corequisite(s): DRFT 151 or consent of instructor.

DRFT 164. Intermediate Mechanical Drafting/Solid Modeling
3 Credits (2+2P)

Intermediate 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Autodesk Inventor software. The creation of 2D working drawings from 3D solid models will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), basic material properties, and industry standard fastening and manufacturing methods will be introduced.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

DRFT 165. Introduction to Building Information Modeling
3 Credits (2+2P)

Introduction to Building Information Modeling (BIM) in the development of virtual 3D building models, construction documents, renderings and basic animations related to architectural, structural, and mechanical/electrical/plumbing building components. Utilizes the latest BIM technologies in the integration one, parametric BIM. May be repeated up to 3 credits. 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 177. 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 Autodesk VIZ and Google SketchUp software. May be repeated for a maximum of 6 credits.

Prerequisite: 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. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 109.

DRFT 181. Commercial Drafting**3 Credits (2+2P)**

Drafting principles, plan coordination, and code analysis applicable in the development of working drawings for commercial, public, and industrial building projects. Students will utilize National Cad Standards, ADA Standards, and will be introduced to modern office practice. Pre/ Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

Corequisite(s): DRFT 180.

DRFT 190. Finding and Maintaining Employment**2 Credits**

Techniques in self-evaluations, resume writing, application completion, job interviewing, and job retention. Exposure to work ethics, employee attitudes, and employer expectations.

DRFT 204. Geographic Information Systems Technology**3 Credits (2+2P)**

The use of digital information for which various digitized data creation methods are captured. Users will capture, store, analyze and manage spatially referenced data in a modeled mapping procedure. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

DRFT 214. Advanced Solid Modeling**3 Credits (2+2P)**

Advanced 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Solidworks software. The creation of 2D working drawings from 3D solid models and the creation of 3D models for machining/manufacturing will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), material properties, and industry standard fastening and manufacturing methods will be further explored.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

DRFT 215. Construction Site Safety Management**3 Credits**

Construction safety, compliance, documentation, and reporting requirements for individuals with construction site safety management responsibilities. Students will have the opportunity to earn a 30-hour construction industry OSHA card. Consent of Instructor required. Restricted to Community Colleges campuses only.

DRFT 222. Surveying Fundamentals**3 Credits (2+2P)**

Elementary surveying and civil drafting theory and techniques for non engineering majors. Includes traverse plotting, site plans, mapping, cross sections, and development of plan and profile drawings. Actual basic field measurement/surveying as well as extensive manual and CAD projects will be assigned. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 109 and MATH 190G.

DRFT 230. Building Systems Drafting**3 Credits (2+2P)**

Development of working drawings for electrical, plumbing, and HVAC systems, for residential and commercial building through the applications of both 2D Drafting and 3D Building Information Modeling (BIM) techniques. Basics of project setup, National CAD Standards, ADA Standards, modern office practice, code analysis, as well as Sustainability and LEED for new construction. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 180 or DRFT 181.

DRFT 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. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 180 or DRFT 181.

DRFT 242. Roadway Development Drafting**3 Credits (2+2P)**

Advanced civil/survey technology and drafting related to roadway development. Emphasis is on relevant terminology, codes/standards, and the production of complex working drawings such as topographical/grading, drainage, master utilities, roadway P P/details/etc., according to agency standards. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 143.

DRFT 243. Land Development Drafting**3 Credits (2+2P)**

Advanced civil/survey technology and drafting related to land development. Emphasis is on relevant terminology codes/standards, and the production of complex working drawings such as subdivision plats, local utility and drainage plans, construction details roadway P P, etc., according to local development/ agency standards.

Prerequisite: DRFT 143 and DRFT 153.

DRFT 250. Principles of Detailing and Design**3 Credits (2+2P)**

Advanced practice in construction documentation in the development and coordination of working drawings & specifications. In particular, will utilize Architectural Graphic Standards, National CAD Standards, and ADA standards to develop detail drawings related to Architectural, Civil, Structural and Building Mechanical systems. Will also be introduced to basic principles, factors, and process of building design such as space planning, site analysis, and basic architectural programming. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 180 or DRFT 181.

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 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 277. Computer Rendering and Animation II**3 Credits (2+2P)**

Continuation of DRFT 276. Covers advanced modeling and animation techniques using 3-D animation software.

Prerequisite: DRFT 276.

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.

DRFT 290. Special Topics**1-4 Credits (1-4)**

Topics subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

DRFT 291. Cooperative Experience**1-6 Credits (1-6)**

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student meets with advisor weekly. Graded S/U.

Prerequisite: consent of instructor.

DRFT 295. Professional Development and Leadership DAGA**1 Credit**

Students gain experience in leadership, team building, performing community service, and membership and/or leadership in a student organization. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

E E-ELECTRICAL ENGINEERING (E E)

E E 100. Introduction to Electrical Engineering**4 Credits (3+3P)**

Introduction to analog (DC) and digital electronics. Including electric component descriptions and equations, Ohm's law, Kirchhoff's voltage and current laws, ideal op-amp circuits, Boolean algebra, design of combinational and sequential logic circuits and VHDL or VERILOG.

Prerequisite(s): C- or better in MATH 190.

E E 109. The Engineering of How Things Work**4 Credits (3+3P)**

This class provides Integrated Learning Community students with an introduction to various aspects of engineering.

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): C- or better in E E 100.

E E 161. Computer Aided Problem Solving**4 Credits (3+3P)**

Introduction to scientific programming. Extensive practice in writing programs to solve engineering problems. Items covered will include: loops, input and output, functions, decision statements, and pointers.

Pre/

Corequisite(s): MATH 190G.

E E 162. Digital Circuit Design**4 Credits (3+3P)**

Design of combinational logic circuits based on Boolean algebra. Introduction to state machine design. Implementation of digital projects with hardware description language.

Prerequisite(s): C or better in E E 161 and MATH 190G.

E E 200. Linear Algebra, Probability and Statistics Applications**4 Credits (3+3P)**

The theory of linear algebra (vectors and matrices) and probability (random variables and random processes) with application to electrical engineering. Computer programming to solve problems in linear algebra and probability.

Prerequisite(s): C- or better in E E 112 and MATH 192G.

E E 201. Electric Circuit Analysis**3 Credits**

Electric component descriptions and equations. Kirchhoff's voltage and current laws, formulation and solution of RLC network equations using time domain concepts. For nonmajors only. Minimum 2.0 GPA.

Prerequisite(s): C or better in MATH 192G.

**E E 212. Introduction to Computer Architecture and Organization
4 Credits (3+3P)**

Introduction to computer architecture and performance analysis techniques. Design and optimization of systems such as personal mobile devices and cloud computing systems.

Prerequisite(s): C- or better in E E 112 and MATH 190G.

**E E 230. AC Circuit Analysis and Introduction to Power Systems
4 Credits (3+3P)**

Electric component descriptions and equations; complete solutions of RLC circuits; steady-state analysis of AC circuits; introduction to frequency response techniques; introduction to power systems in the steady-state. May be repeated up to 4 credits. Restricted to: E E majors.

Prerequisite(s): C- or better in E E 100, PHYS 215G and MATH 192G.

**E E 240. Multivariate and Vector Calculus Applications
3 Credits**

Vector algebra, cylindrical and spherical coordinates, partial derivatives, multiple integrals. Calculus of vector functions through electrostatic applications. Divergence, gradient, curl, divergence theorem, Stokes's theorem, Coulomb's Law, Gauss's Law, electric field, electric potential. Applications in Matlab.

Prerequisite(s): C- or better in MATH 192G and E E 112.

**E E 260. Embedded Systems
4 Credits (3+3P)**

Applications of microcontrollers, FPGAs, interfaces and sensors. Introduction to Assembly language programming.

Prerequisite(s): C or better in E E 162.

**E E 280. DC and AC Circuits
4 Credits (3+3P)**

Electric component descriptions and equations; Kirchhoff's voltage and current laws; formulation and solution of network equations for dc circuits; ideal op-amp circuits. Complete solutions of RLC circuits; steady-state analysis of ac circuits, ac power; introduction to frequency response techniques.

Prerequisite(s): C or better in MATH 192G and PHYS 216G.

E S-ENVIRONMENTAL SCIENCE (E S)

**E S 110G. Introductory Environmental Science
4 Credits (3+2P)**

Introduction to environmental science as related to the protection, remediation, and sustainability of land, air, water, and food resources. Emphasis on the use of the scientific method and critical thinking skills in understanding environmental issues.

**E S 256. Environmental Engineering and Science
3 Credits**

Principles in environmental engineering and science: physical chemical systems and biological processes as applied to pollution control. Restricted to: Main campus, Alamogordo campus, Grants campus, Carlsbad campus. Crosslisted with: C E 256

Prerequisite(s): CHEM 111G and MATH 191G.

**E S 256 L. Environmental Science Laboratory
1 Credit**

Laboratory experiments associated with the material presented in E S 256. Same as C E 256L.

Corequisite: E S 256.

E T-ENGINEERING TECHNOLOGY (E T)

**E T 101. Introduction to Engineering Technology
1 Credit**

The development of engineering technology, with an introduction to engineering technology, education, and practice. Graded S/U.

**E T 104. Soldering Techniques
1 Credit**

Fundamentals of soldering, desoldering, and quality inspection of printed circuit boards.

**E T 106. Drafting Concepts/Computer Drafting Fundamentals I
4 Credits (2+4P)**

Basic drafting skills, terminology, and visualization. Introduction to principles and fundamentals of computer-aided drafting. Community Colleges only. Same as DRFT 112.

Prerequisite: OECS 125, OECS 207, or consent of instructor.

**E T 109. Computer Drafting Fundamentals
3 Credits (3+2P)**

Crosslisted with: DRFT 109, C E 109 and SUR 109

**E T 110. Introduction to 3-D Modeling (Solid Works)
3 Credits**

Introduction to SolidWorks, a 3-D modeling software. The foundation for designing mechanical parts and assemblies. May be repeated up to 3 credits.

**E T 120. Computation Software
2-3 Credits (2-3)**

The use of spreadsheet software in the field of engineering technology.

**E T 125. Introduction to Renewable Energy
3 Credits**

Renewable energy systems, including topics in thermal-solar photovoltaic, wind, geothermal systems, and other current topics. Theory, practical applications, safety considerations and the economics of alternative renewable energy systems compared to conventional systems.

**E T 153. Introduction to Computer Networks
3 Credits**

Introduction to basic computer network fundamentals including International Open Systems Interconnect (OSI), the seven-layer model, and various networking hardware devices. Community Colleges only.

**E T 154. Construction Methods and Communications
3 Credits**

Blueprint reading, specifications, and introduction to materials used in construction.

**E T 155. Network Operating Systems I
3 Credits (3+1P)**

Introduction to a computer network operating system. May not be used as part of an E T degree program on main campus. Restricted to: Community Colleges only.

Prerequisite(s): E T 120 or E T 122.

**E T 160. Basic Computer Operating Systems
3 Credits**

Basics of the most commonly used computer operating systems, command line interface, file systems, file virtualization.

E T 182. Digital Logic**3 Credits**

The use of truth tables, Boolean equations, and diagrams to define, simplify, and implement logic-valued functions.

E T 183. Applied DC Circuits**3 Credits (2+2P)**

Application of Ohm's law, Kirchhoff's laws, Thevenin's, and Norton's theorems to the analysis of DC passive circuits. Embedded Lab. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 121G.

E T 183 L. Applied DC Circuits Lab**1 Credit**

DC applied circuits lab. May be repeated up to 1 credits.

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. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 190G. **Prerequisite(s):** E T 183.

E T 184 L. Applied AC Circuits Lab**1 Credit**

AC applied circuits lab May be repeated up to 1 credits.

Corequisite(s): E T 184.

E T 190. Applied Circuits**4 Credits (3+2P)**

Application of Ohm's law, Kirchhoff's laws, and Thevenin's theorems to the analysis of AC and DC passive circuits. Electronic circuit topics are introduced. Embedded lab.

Prerequisite(s)/Corequisite(s): MATH 190G.

E T 191. Applied Circuits Laboratory**1 Credit**

Applied Circuits Lab May be repeated up to 1 credits.

E T 200. Special Topics**1-3 Credits**

Directed study or project. May be repeated for a maximum of 6 credits.

Prerequisite: consent of department head.

E T 203. Computational Foundations**3 Credits**

Fundamental concepts of various proof techniques. These concepts will be applied to the use of computer algorithms, programming languages and other engineering and technology applications. May be repeated up to 3 credits.

Prerequisite(s): MATH 190G and E T 262.

E T 210. Intermediate 3-D Modeling (Solid Works)**3 Credits (2+2P)**

Intermediate 3-D modeling. Applied modeling of techniques to prepare for SolidWorks certification (CSWA). May be repeated up to 3 credits.

Prerequisite(s): E T 110.

E T 217. Manufacturing Processes**3 Credits**

Introduction to manufacturing and processing, including: casting, forming, and machining. Emphasis on creating products with the appropriate techniques. May be repeated up to 3 credits. Crosslisted with: I E 217.

Prerequisite(s)/Corequisite(s): E T 217L. **Prerequisite(s):** E T 110 and MATH 121G.

E T 217 L. Manufacturing Processes Lab**1 Credit**

Hands-on laboratory in machine shop to apply topics from E T 217, including: casting, forming, and machining. May be repeated up to 1 credits.

Prerequisite(s)/Corequisite(s): E T 217.

E T 220. Internship**1-6 Credits**

Internship requiring an approved number of hours of varied and progressive experience in the field of study. The scope and other requirements of the internship are stated in an individualized syllabus and through a memorandum of understanding between the faculty mentor and the industry partner. May be repeated up to 6 credits. Consent of Instructor required.

Prerequisite(s): E T 283.

E T 230. Introduction to Servo Systems**1 Credit**

Introduction to Servo Systems. Topics include uses of servos in the industry, servo types, loop gains and frequency response, software control systems, damping, feedback, encoders, synchros and resolvers. Restricted to Community Colleges campuses only.

Prerequisite(s): E T 246.

E T 240. Applied Statics**3 Credits**

Fundamental topics of applied statics, including force system analysis, equilibrium, free body diagrams, methods of joints and sections, distributed loads, friction, centroids, area moments, and shear and moment diagrams. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 235G or MATH191G.

Prerequisite(s): PHYS 211G or PHYS 215G.

E T 241. Applied Dynamics**3 Credits**

The foundation for understanding particles and bodies in motion and the forces involved, including: projectile motion, Newton's Laws of Motion, conservation of energy, and impulse and momentum. May be repeated up to 3 credits.

Prerequisite(s): E T 240, (MATH 235 or MATH 191G).

E T 245. Computer Hardware Fundamentals**3 Credits (2+2P)**

Computer hardware fundamentals including architecture, interfacing, peripherals, troubleshooting, system upgrades, and maintenance. May be repeated up to 3 credits. 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. May be repeated up to 4 credits.

Prerequisite(s): E T 190 or E T 184.

E T 253. Networking Operating Systems II**3 Credits (3+1P)**

Introduction to a computer network operating system. May not be used as part of an E T degree program on main campus. Restricted to Community Colleges campuses only.

Prerequisite(s): E T 155.

E T 254. Concrete Technology**3 Credits (2+2P)**

Fundamentals of aggregates, Portland cement, and asphalt used in design and construction.

E T 255. Linux System Administration**3 Credits**

Introduction to Linux system administration.

Prerequisite(s)/Corequisite(s): E T 160.

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. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): E T 182 or MATH 190G.

E T 272. Electronic Devices II**4 Credits (3+3P)**

Operational amplifiers, positive and negative feedback, computer aided circuit analysis. In addition circuits include integrator, differentiators and phase shift networks. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): MATH 235G or MATH 191G.

Prerequisite(s): E T 246.

E T 273. Fundamentals of Networking Communications I**4 Credits (2+4P)**

Introduction to networking basics, including computer hardware and software, electricity, networking terminology, protocols, LANs, WANs, OSI model, IP addressing, and design and documentation of basic network and structure cabling. Community Colleges only. May be repeated up to 4 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): E T 153.

E T 276. Electronic Communications**3 Credits (2+2P)**

Antennas, transmission devices, A-M and F-M transmission and detection, pulse systems, microwave systems.

Prerequisite(s): E T 246.

E T 277. Computer Networking I for IET**3 Credits (2+2P)**

Computer network design and applications for LAN to WAN, protocols, switches, bridges, routers, NT server, TCP/IP networks, network diagnostics, voice over IP, wireless networks, and the OSI layers from physical to transport. May be repeated up to 3 credits.

Prerequisite(s): E T 182.

E T 280. Introduction to Multimedia**3 Credits**

Introduction to video, audio and other digital presentation methods.

Prerequisite(s): E T 255.

E T 282. Digital Electronics**4 Credits (3+3P)**

Applications of digital integrated circuits, multiplexers, counters, arithmetic circuits, and microprocessors. May be repeated up to 4 credits.

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. Principles of Security**3 Credits**

Examines the field of information security within a real-world context of issues faced by today's IT professionals.

Prerequisite(s): E T 283 or consent of instructor.

E T 286. Fundamentals of Security**3 Credits**

An overview of general security concepts for information technology systems.

Prerequisite(s): E T 283 or consent of instructor.

E T 287. PC Disaster and Data Recovery**3 Credits**

This course provides an overview of the various causes of personal computer data failure and methods to mitigate the loss of your personal computer data. The focus is on restoring your personal computer to full PC functionality and recovering lost and damaged files after one of these unforeseen problems. In addition, the course provides a means to lessen the impact of these inevitable events with the preparation of a disaster recovery plan.

Prerequisite(s): E T 120 or E T 122.

E T 290. Networking Wireless Communication**3 Credits (3+1P)**

This course provides an introduction to wireless networking and communications. Some of the topics covered are protocols, transmission methods, and IEEE 802.11 standards. Wireless LAN (WLAN) fundamentals, devices, and security, cellular telephony, broadband, and satellite communications.

Prerequisite: E T 273.

E T 291. PC Forensics and Investigation**3 Credits**

Introduction to computer forensics and investigative fundamentals.

Topics include understanding computer forensic and investigation law and requirements, processing crime and incident scenes, and the extraction, preservation, analysis and presentation of computer-related evidence.

Prerequisite(s): E T 120 or E T 122.

ECED-EARLY CHILDHOOD EDUCATION (ECED)

ECED 115. Child Growth, Development, and Learning**3 Credits**

This basic course in the growth, development, and learning of young children, prenatal through age eight, provides students with the theoretical foundation for becoming competent early childhood professionals.

ECED 125. Health, Safety, and Nutrition**2 Credits**

This course provides information related to standards and practices that promote children's physical and mental well being sound nutritional practices, and maintenance of safe learning environments.

ECED 135. Family and Community Collaboration**3 Credits**

This beginning course examines the involvement of families and communities from diverse cultural and linguistic backgrounds in early childhood programs. Ways to establish collaborative relationships with families in early childhood settings is discussed.

Prerequisite(s): ECED 115 and ENGL 111G.

ECED 215. Curriculum Development Through Play**3 Credits**

The beginning curriculum course places play at the center of curriculum in developmentally appropriate early childhood programs. It addresses content that is relevant for children birth through age four and developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with diverse abilities and the development of IFSP's and IEP's is included. Consent of instructor required.

Prerequisite(s): ECED 115 and ENGL 111G.

Corequisite(s): ECED 220.

ECED 220. Early Childhood Education Practicum I**2 Credits**

The beginning practicum course will provide experiences that address curriculum content that is relevant for children birth through age four in developmentally and culturally sensitive ways. Consent of instructor required.

Prerequisite(s): ECED 115 and ENGL 111G.

Corequisite(s): ECED 215.

ECED 225. Curriculum Development and Implementation II**3 Credits**

The second curriculum course focuses on developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Development and implementation of curriculum in all content areas, including literacy, numeracy, the arts, health and emotional wellness, science, motor and social skills, is emphasized. Information on adapting content areas to meet the needs of children with diverse abilities and the development of IEP's is included. Consent of instructor required.

Prerequisite(s): ECED 115, ENGL 111G.

Corequisite(s): ECED 230.

ECED 230. Early Childhood Education Practicum II**2 Credits**

The second field-based curriculum course focuses on practicing developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Consent of instructor required.

Prerequisite(s): ECED 115, ENGL 111G.

Corequisite(s): ECED 225.

ECED 235. Introduction to Language, Literacy and Reading**3 Credits**

This course is designed to prepare early childhood professionals for promoting children's emergent literacy and reading development. Through a developmental approach, the course addresses ways in which early childhood professionals can foster young children's oral language development, phonemic awareness, and literacy problem solving skills, fluency, vocabulary, and comprehension.

Prerequisite(s): ECED 115 and ENGL 111G.

ECED 245. Professionalism**2 Credits**

This course provides a broad-based orientation to the field of early care and education. Early childhood history, philosophy, ethics and advocacy are introduced. Basic principles of early childhood systems are explored. Multiple perspectives on early care and education are introduced. Professional responsibilities such as cultural responsiveness and reflective practice are examined.

ECED 255. Assessment of Children and Evaluation of Programs**3 Credits**

This basic course familiarizes students with a variety of culturally appropriate assessment methods and instruments, including systematic observation of typically and non-typically developing children. Crosslisted with: SPED 255

Prerequisite(s): ECED 115 and ENGL 111G.

ECED 265. Guiding Young Children**3 Credits**

This course explores various theories of child guidance and the practical applications of each. It provides developmentally appropriate methods for guiding children and effective strategies and suggestions for facilitating positive social interactions. Strategies for preventing challenging behaviors through the use of environment, routines and schedule will be presented.

ECED 270. Program Management**3 Credits**

Technical knowledge necessary to develop and maintain a quality early care and education program. The course will focus on sound financial management and vision, laws and legal issues that affect programs and state and national standards including accreditation requirements.

Prerequisite: consent of instructor.

ECED 275. Curriculum for Diverse Learners and Their Families**3 Credits**

Implementation of family-centered programming that includes developmentally appropriate and culturally responsive curriculum. The course will also cover the establishment and maintenance of healthy and safe learning environments. Consent of instructor required.

ECED 276. Effective Program Development for Diverse Learners and Their Families**2 Credits**

Practical experience in observing and carrying out the role of the director/administrator in the implementation of family-centered programming that includes individually appropriate and culturally responsive curriculum in a healthy and safe learning environment. Consent of instructor required. Restricted to ECED majors.

Corequisite(s): ECED 275.

ECED 280. Professional Relationships**3 Credits**

Development of staff relationships that will foster strong professional relationships with and among families, communities and advisory boards. Issues of staff recruitment, retention, support and supervision will lay a foundation for positive personnel management. Working effectively with board, advisory groups and community members and agencies will be addressed. Consent of instructor required.

Corequisite(s): ECED 281.

ECED 281. Professional Relationships Practicum**2 Credits**

Practical experience in the development of staff relationship that will foster professional relationships with families, communities and boards. Issues of staff recruitment, retention, support and supervision will lay a foundation for positive personnel management. Consent of instructor required. Restricted to ECED majors.

Corequisite(s): ECED 280.

ECON-ECONOMICS (ECON)

ECON 201G. Introduction to Economics**3 Credits**

Economic institutions and current issues with special emphasis on the American economy.

ECON 251G. Principles of Macroeconomics**3 Credits**

Macroeconomic theory and public policy: national income concepts, unemployment, inflation, economic growth, and international payment problems.

ECON 252G. Principles of Microeconomics**3 Credits**

Microeconomic theory and public policy: supply and demand, theory of the firm, market allocation of resources, income distribution, competition and monopoly, governmental regulation of businesses and unions.

EDUC-EDUCATION (EDUC)

EDUC 101. FRESHMAN ORIENTATION**1 Credit**

Introduction to the university and to the College of Education. Discussion of planning for individualized education program and field experience. Restricted to Las Cruces campus only.

EDUC 102. Internship I**3 Credits**

Supervised experience in elementary education settings.

EDUC 103. Internship in Bilingual Education/ESL**1-4 Credits**

Supervised experience in bilingual education/ESL elementary or secondary classroom settings for prospective bilingual education/ESL teachers.

EDUC 150. Math for Paraprofessionals**3 Credits**

Applied math skills for paraprofessionals working with children.

Prerequisite: CCDM 103.

EDUC 151. Math for Paraprofessionals II**3 Credits**

Applied math skills for paraprofessionals working under the direction of a teacher.

Prerequisite: EDUC 150.

EDUC 181. Field Experience I**1 Credit**

Introduction to public school teaching, school visits, classroom observations and discussion seminar.

EDUC 195. Individual Topics in Education**1-3 Credits**

Supervised study in a specific area of interest. Each course shall be designated by a qualifying subtitle. May be repeated for a maximum of 9 credits.

EDUC 202. Internship II**3 Credits**

Supervised experience in junior high settings.

Prerequisite: must be a co-op student.

EDUC 204. Foundations of Bilingual/ESL Education**3 Credits**

Explore and review the historical, legal, philosophical, theoretical and pedagogical paradigms of bilingual/ESL education.

EDUC 219. Pre-Teacher Preparation**3 Credits**

Assists students in developing the necessary competencies needed for acceptance to the Teacher Education Program. Course content includes basic skill development, test taking skills, and completion of teacher preparation packet. Maybe repeated for a maximum of 6 credits. Graded S/U. Community Colleges only.

EDUC 250. Introduction to Education**2 Credits**

An overview of the American education system with emphasis on organization, governance, law, demographics, and professional practice. Restricted to Las Cruces campus only.

EDUC 281. Introduction to Secondary Education and Youth**3 Credits**

Introductory course for students considering a career in secondary education. Includes historical, philosophical, and sociological foundations, program organization, critical dispositions, and understanding the context of schools and youth. Practicum required. Restricted to: Secondary Ed majors. Traditional Grading with RR.

ELA - EDUC LEADERSHIP & ADMIN (ELA)

ELA 215. Multicultural Leadership in Education**3 Credits**

Introduction to the social and cultural constructions of gender, class, and race. Students will critically apply theoretical constructs to everyday life and discuss the intersection of gender and race with class inequality in national and global contexts. Using a social justice framework, readings, and assignments integrate a variety of racial/ethnic groups while considering the effects of historically uneven resource distribution, unearned privilege, forms of domination and subordination, immigration status, and cultural representation and ideologies. Participants will learn how to apply the change theories and concepts introduced in the course to practice through course readings, online discussions with the instructor and colleagues, group work, active examination of daily practice in schools, and personal reflection.

ELA 255. Leadership and Change in Education**3 Credits**

This course will introduce students to the challenges and key strategies in initiating, implementing, and sustaining educational change and reform. In the first part of the course, participants will learn about the challenges of educational change in the United States and the role that they as school leaders play in facilitating change and reform. The course continues with an examination of how culture, micro-politics, and power structures support or impede national and global change initiatives. The last part of the course offers suggestions for change agents including community organizing, culture building, and embracing sustainable leadership practices. Participants will learn how to apply the change theories and concepts introduced in the course to practice through course readings, online discussions with the instructor and colleagues, group work, active examination of daily practice in schools, and personal reflection.

ELA 298. Special Topics in Education**1-3 Credits (1-3)**

Special topics course in education for undergraduate students. Course will be identified by a subtitle. May be repeated up to 12 credits. Restricted to Las Cruces campus only.

ELT - ELECTRONICS TECHNOLOGY (ELT)

ELT 103. Math Study Skills for Electronics**1 Credit**

Covers specific math study skills and critical thinking processes to reinforce practical applications of math and its use with electronics. The student will be introduced to electronic mathematical formulas during the problem-solving steps required for circuit analysis. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): E T 183 OR E T 184. Restricted to Community Colleges only.

ELT 105. Basic Electricity and Electronics**3 Credits (2+2P)**

Fundamentals of electricity and electronics, basic circuit devices, meters, transistors, integrated circuits and other solid state devices, computers, fiber optics, and industrial application topics. Minimum math proficiency of CCDM 103 or CCDM 104 required or math placement into CCDM 114 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 111

ELT 110. Electronics I**4 Credits (3+3P)**

Fundamentals of electronics including: components, schematics, Ohm's law, Thevenin's and Norton's theorems, and series/parallel circuits incorporating passive, active and magnetic elements. Introduction to AC circuits. Crosslisted with: AERT123. Restricted to: Community Colleges only.

ELT 120. Mathematics for Electronics**4 Credits**

Includes fundamental mathematics, algebra, sine, cosine, and other elementary functions as they specifically apply to the operation, manipulation, and evaluation of direct current (DC) and alternating current (AC) circuits. Minimum math proficiency of CCDM 114 required or math placement into MATH 120 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 124

ELT 135. Electronics II**4 Credits (3+3P)**

Analysis of AC circuits, filters, and resonance. Introduction to solid state fundamentals including diodes and rectifier circuits, voltage regulators, various transistors and transistor characteristics, amplification and amplifiers, photoelectric effects, gates and timing circuits. Restricted to Community Colleges campuses only.

Prerequisite(s): ELT 110 and ELT 120.

ELT 155. Electronics CAD and PCB Design**3 Credits (2+2P)**

Introduction to and the use of commercially available CAD software covering schematic representation of electronic components and circuits. Printed circuit board layout techniques including proper schematic capture, netlist generation, design rule checking and manual routing covered.

ELT 160. Digital Electronics I**4 Credits (3+3P)**

Number systems, codes, Boolean algebra, logic gates, Karnaugh maps, combination circuits, flip-flops, and digital troubleshooting techniques. Restricted to: Community Colleges only.

Prerequisite(s): ELT 110 and (ELT 120 or MATH 120).

ELT 175. Soldering Practices**3 Credits (2+2P)**

Methods and techniques of hand soldering in the production of high quality and reliable soldering connections. Restricted to: Community Colleges only.

ELT 205. Semiconductor Devices**4 Credits (3+3P)**

Analysis and trouble shooting of linear electronic circuits including amplifiers, op-amps, power supplies, and oscillators. Restricted to: Community Colleges only.

Prerequisite(s): ELT 110 and ELT 135.

ELT 215. Microprocessor Applications I**4 Credits (3+2P)**

Fundamentals of microprocessor architecture and assembly language with an emphasis on hardware interfacing applications.

Prerequisite(s)/Corequisite(s): ELT 235. **Prerequisite(s):** ELT 160. Restricted to: Community Colleges only.

ELT 220. Electronic Communication Systems**4 Credits (3+2P)**

Principles and applications of circuits and devices used in the transmission, reception, and processing of RF, microwave, digital and telecommunications systems.

Prerequisite(s)/Corequisite(s): ELT 205. **Prerequisite(s):** ELT 135. Restricted to: Community Colleges only.

ELT 221. Cooperative Experience I**1-6 Credits**

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

ELT 222. Cooperative Experience II**1-6 Credits**

Continuation of ELT 221. Maximum of 6 credits. Graded S/U.

Prerequisite: consent of instructor.

ELT 225. Computer Applications for Technicians**3 Credits (2+2P)**

An overview of computer hardware, software applications, operating systems, high level programming languages and networking systems.

ELT 230. Microprocessor Applications II**4 Credits (3+2P)**

Advanced microprocessor interfacing techniques. Topics in A/D and D/A conversion, I/O port address decoding, direct memory accessing, and peripheral device interfacing applications.

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.

ELT 295. Professional Development/Leadership**1 Credit**

As members and/or officers of student professional organizations, electronics technology students gain experience in leadership, team building, and community services. May be repeated for a maximum of 6 credit. Restricted to ELT and ET E majors.

ENGL-ENGLISH (ENGL)

ENGL 111 M. Rhetoric and Composition for International and Multilingual Students**4 Credits**

For international and multilingual students. Students will build on your prior knowledge of writing in English as a second or additional language by engaging in several genres of writing and reading, including reading responses, discussion posts, formal academic papers (Rhetorical Analysis and Documented Argument), and peer review. Your instructor and classmates will serve as your readers and will give you helpful and constructive criticism, which will in turn assist you in becoming a more fluent and engaging communicator in English. Fulfills English 111 Gen-ed requirement. Restricted to Las Cruces campus only.

Prerequisite(s): CBT/PB score of 500, or IBT score of 61, or SPCD 110, or consent of instructor.

ENGL 111G. Rhetoric and Composition**4 Credits**

Skills and methods used in writing university-level essays.

Prerequisite(s): ACT standard score in English of 16 or higher or a Compass score 76 or higher; for those scoring 13-15 in English on the ACT or 35-75 on the Compass, successful completion of a developmental writing course; for those scoring 12 or below on the ACT standard score in English or 34 or below on the Compass, successful completion of two developmental writing courses.

ENGL 111GH. Rhetoric and Composition Honors**4 Credits**

Individualized assignments and independent study. Satisfies 4 credits of General Education English Composition requirement.

Prerequisite: ACT standard English score of 25 or higher and departmental approval.

ENGL 112. Rhetoric and Composition II**2 Credits**

A continuation of English 111G for those desiring more work in composition. Weekly themes based on outside reading.

Prerequisite: successful completion of ENGL 111G or the equivalent.

ENGL 115G. Perspectives on Literature**3 Credits**

Examines literature by writers from culturally diverse backgrounds and from different cultural and historical contexts. Explores various strategies of critical reading.

ENGL 116G. Perspectives on Film**3 Credits (3+3P)**

Explores narrative and documentary film and examines significant developments in the history of cinema. Criticism of film as an art form, technical enterprise, business venture, and cultural phenomenon.

ENGL 203G. Business and Professional Communication**3 Credits**

Effective writing for courses and careers in business, law, government, and other professions. Strategies for researching and writing correspondence and reports, with an emphasis on understanding and responding to a variety of communication tasks with a strong purpose, clear organization, and vigorous professional style. May be repeated up to 3 credits.

Prerequisite(s): ENGL 111G or SPCD 111G or ENGL 111 M.

ENGL 211G. Writing in the Humanities and Social Sciences**3 Credits**

Theory and practice in interpreting texts from various disciplines in the humanities and social sciences. Strategies for researching, evaluating, constructing, and writing researched arguments. Course subtitled in the Schedule of Classes. May be repeated up to 3 credits.

Prerequisite(s): ENGL 111G or SPCD 111G or ENGL 111 M.

ENGL 218G. Technical and Scientific Communication**3 Credits**

Effective writing for courses and careers in sciences, engineering, and agriculture. Strategies for understanding and presenting technical information for various purposes to various audiences. May be repeated up to 3 credits.

Prerequisite(s): ENGL 111G or SPCD 111G or ENGL 111 M.

ENGL 220G. Introduction to Creative Writing**3 Credits**

Examines classic and contemporary literature in three genres. Various forms, terminologies, methods and technical aspects of each genre, and the art and processes of creative writing. May be repeated up to 3 credits.

Prerequisite(s): ENGL 111G or SPCD 111G or ENGL 111 M.

ENGL 232. Script Development and Storyboarding**3 Credits**

Examines effective writing principles for creating storyboards that communicate the overall picture of a project, timing, scene complexity, emotion and resource requirements. Crosslisted with: CMI 232.

ENGL 235. Narrative: Principles of Story Across the Media**3 Credits**

Examines the various strategies of written and visual storytelling, narrative structure and its principal components (plot, theme, character, imagery, symbolism, point of view) with an attempt to connect them to elements of contemporary forms of media expression, including screenwriting, playwriting, writing for documentaries and animation, etc. Crosslisted with: CMI 235

ENGL 243. The Bible as Literature**3 Credits**

Develops informed readings of Hebrew and Christian scriptures. Emphasizes understanding Biblical literary forms, techniques, themes; historical, cultural contexts for interpretation; authorship, composition, audience for individual books; development of Biblical canon.

ENGL 244G. Literature and Culture**3 Credits**

Intensive reading of and discussion and writing about selected masterpieces of world literature. Emphasizes cultural and historical contexts of readings to help students appreciate literary traditions. Core texts include works by Homer, Dante, and Shakespeare, a classic novel, an important non-Western work, and modern literature.

ENGL 251. Survey of American Literature I**3 Credits**

From the colonial period to the transcendentalists.

ENGL 252. Survey of American Literature II**3 Credits**

From Whitman to the present.

ENGL 262. Masterpieces of Western European Literature, Post-Renaissance to Modern Times**3 Credits**

Modern Western European literary classics, from the seventeenth through the twentieth centuries, with attention to the rise of the novel and other modern forms.

ENGL 263. History of Argument**3 Credits**

Investigates the major figures and movements in rhetoric from the classical period to modern rhetorical theory, examining relations between rhetorical teaching and practice, culture, epistemology, and ideology. Main campus only.

ENGL 271. Survey of English Literature I**3 Credits**

From Beowulf through the eighteenth century.

ENGL 272. Survey of English Literature II**3 Credits**

From the pre-Romantics to the present.

ENGL 299. Special Topics**1-3 Credits**

Emphasis on a literary and/or writing subject chosen for the semester. Repeatable for a unlimited credit under different subtitles.

ENGR-ENGINEERING (ENGR)

ENGR 100. Introduction to Engineering**3 Credits (2+3P)**

An introduction to the various engineering disciplines, the engineering approach to problem solving, and the design process. Projects emphasize the importance of teamwork, written & oral communication skills, as well as ethical responsibilities.

Prerequisite(s)/Corequisite(s): MATH 121G.

ENGR 100H. Introduction to Engineering**3 Credits (2+3P)**

An introduction to the various engineering disciplines, the engineering approach to problem solving, and the design process. Projects emphasize the importance of teamwork, written & oral communication skills, as well as ethical responsibilities. Pre/

Corequisite(s): MATH 190G.

ENGR 111. Mathematics for Engineering Applications**3 Credits**

An introduction to engineering mathematics and basic programming skills needed to perform elementary data manipulation and analysis. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): MATH 190G. Prerequisite(s): MATH 121G.

ENGR 198. Special Topics in Engineering**1-3 Credits**

Directed individual study of topics in engineering. Written reports covering work required. May be repeated for a maximum of 6 credits. Restricted to engineering majors. Graded S/U.

Prerequisite: consent of academic dean.

EPWS-ETMLGY/PLNT PTHLGY/WD SCI (EPWS)

EPWS 100. Applied Biology**3 Credits**

Introduction to applied biology and ecology focusing on insects, plants and pathogens in natural areas, crops and urban settings. EPWS 100L is strongly recommended to take in the same semester. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

EPWS 100 L. Applied Biology Lab**1 Credit**

Study of applied biology and ecology of insects, plants and pathogens in natural areas, crops, and urban settings. EPWS 100 strongly recommended to take in the same semester. May be repeated up to 1 credits. Restricted to Las Cruces campus only.

EPWS 200. Special Topics**1-4 Credits**

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

FCS-FAMILY AND CHILD SCIENCE (FCS)

FCS 181. Interpersonal Skills in Intimate Relationships**3 Credits**

Developing social skills within friendships, dating relationships, marriage, parenting, and families. May be repeated up to 3 credits. Restricted to Las Cruces and Dona Ana campuses.

FCS 210. Infancy and Early Childhood in the Family**3 Credits**

Research and theory relevant to prenatal development and the physical, mental, and socio-emotional development of the child from birth to age five. Attitudes, knowledge, and skills needed for working with young children and their families. Restricted to Las Cruces campus only.

FCS 211. Middle Childhood Development in the Family**3 Credits**

Research and theory relevant to the physical, mental, social, and emotional development of the child from age five to age twelve. Attitudes, knowledge, and skills related to working with school-age children in the family system. Observation in a variety of settings may be required. Restricted to Las Cruces campus only.

FCS 212. Adolescent Development and the Family**3 Credits**

Research and theory relevant to the physical, mental, social, and emotional development of the children ages 12 to 18. Attitudes, knowledge, and skills related to working with adolescents in the family system. Observation in a variety of settings may be required. Restricted to Las Cruces campus only.

FCS 213. Adult Development and Aging**3 Credits**

Research and theory related to the physical, mental, social, and emotional development of older adults. Attitudes, knowledge, and skills related to working with older adults in the family system, including normative, and nonnormative transitions. Restricted to Las Cruces campus only.

FCSE-FAMILY & CONSUMER SCI EDU (FCSE)

FCSE 235. Housing and Interior Design**3 Credits**

Investigation of types of housing and factors impacting housing decisions for families. Selection, planning, and arrangement of interior components of homes to meet the needs of the family. Restricted to Las Cruces campus only.

Prerequisite(s): No prerequisites.

FCSE 245. Overview of Family and Consumer Sciences Teaching**3 Credits**

Overview of planning and teaching skills. Supervised experiences in observing and directing the learning of secondary family and consumer sciences students. Philosophy and history of the profession.

FIN-FINANCE (FIN)

FIN 206. Introduction to Finance**3 Credits**

Theory and techniques of financial management for business firms. Includes application of financial analysis tools and techniques needed for business financial administration and decision making. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 106 or higher; BOT 120 or ACCT 221; ECON 201 or ECON 251.

FIN 210. Financial Planning and Investments**3 Credits**

Individual financial planning and related financial markets and institutions. Community Colleges only.

FIRE-FIRE INVESTIGATION (FIRE)

FIRE 101. Firefighter I**8 Credits (6+6P)**

This course will train the student to the Firefighter I level as outlined in NFPA 1001, Standard for Firefighter Professional Qualifications. Firefighter I certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 8 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): OEEM 103 and FIRE 115. Restricted to Community Colleges campuses only.

FIRE 102. Fire Fighter IB**4 Credits (3+3P)**

Continuation of basic concepts and methodologies of fire suppression. Meets or exceeds NFPA standards.

Prerequisite: OEFS 101.

FIRE 104. Firefighter II**8 Credits (6+6P)**

This course will train the student to the Firefighter II level as outlined in NFPA 1001, Standard for Firefighter Professional Qualifications. Firefighter II certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 8 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): FIRE 252. Prerequisite(s): FIRE 101. Restricted to Community Colleges campuses only.

FIRE 112. Principles of Emergency Services**3 Credits**

This course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives. Restricted to: Community colleges only.

FIRE 114. Fire Behavior and Combustion**3 Credits**

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. Restricted to: Community colleges only.

FIRE 115. Hazardous Materials Awareness and Operations**3 Credits**

This course will train the student to the Hazardous Materials Awareness and Operations level as outlined in NFPA 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents and OSHA 29 CFR 1910.120. Hazardous Materials Awareness and Operations certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

FIRE 120. Fire Protection Hydraulics and Water Supply**3 Credits**

This course will train students on 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 NMFTA guidelines. Students who meet all course requirements will be eligible for International IFSAC certification through the NMFTA. May be repeated up to 3 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): FIRE 128. Restricted to Community Colleges campuses only.

FIRE 126. Fire Prevention**3 Credits**

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review, fire inspection; fire and life safety education; and fire investigation. Restricted to: Community colleges only.

FIRE 127. Rescue Operations**3 Credits**

A course designed to acquaint the student with the equipment and procedures employed in search and rescue operations to safely remove persons from burning structures, automobile accidents, and natural disasters. Restricted to majors.

Prerequisite: consent of instructor.

FIRE 128. Apparatus and Equipment**2 Credits**

This course is a pre/co-requisite to FIRE 120. The course will train students on attitude and skill requirements for becoming a safe and effective fire apparatus driver/operator. The focus will be on apparatus inspection, operation, maintenance, and specification. Responsibilities of the driver/operator will be taught and assessed consistent with applicable NFPA standards and NMFTA guidelines. Students who meet all course requirements will be eligible for IFSAC certification through the NMFTA. Consent of Instructor required. Restricted to Community Colleges campuses only.

FIRE 130. Principles of Fire and Emergency Services Safety and Survival
3 Credits

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. Consent of instructor required. Restricted to: Community colleges only.

FIRE 142. Fire Fighter Training S-130**3 Credits**

Wildland Fire Training FFT2: A field course providing entry-level fire fighting skills through 13 instructional units of study. May also serve as refresher training for returning fire fighters and a means of testing personnel with undocumented prior experience. Instructed in accordance to NWCG standards.

FIRE 200. Special Topics**1-3 Credits**

Specific subjects to be announced in the Schedule of Classes. Course may be repeated for credit as topics change.

FIRE 201. Independent Study**1-3 Credits**

Research on an approved topic to meet graduation requirements. Meets or exceeds NFPA standards. May be repeated for total of 9 credits.

Prerequisite: consent of instructor.

FIRE 202. Wildland Fire Control**1-3 Credits**

Focuses on factors affecting wildland fire control and prevention, fire behavior, control techniques, command structure and other operations including Standards for Survival I-100, S-130 and S-190 Meets or exceeds NWCG Training Curriculum and NFPA 1051 standards. Restricted to: Community Colleges Only.

FIRE 203. Fire and Emergency Services Administration**3 Credits**

This course introduces the student to the organization and management of a fire and emergency services department and the relationship of government agencies to the fire services department and the relationship of government agencies to the fire service. Emphasis is placed on fire and emergency service, ethics, and leadership from the perspective of the company officer. Restricted to: Community colleges only.

FIRE 205. Fire Chemistry**3 Credits**

Theories of combustion and extinguishment, including the analysis of flammable materials, the nature of extinguishing agents, and the properties of matter affecting fire behavior.

Prerequisite: CHEM 110G.

FIRE 210. Building Construction for Fire Protection**3 Credits**

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. Restricted to: Community colleges only.

FIRE 214. Hazardous Materials Technician**3 Credits**

Knowledge and skills about hazardous materials mitigation needed to certify as a Hazardous Materials Technician Level III. Meets or exceeds NFPA 471, 472, 473 standards, and OSHA 1910.102 part Q, and New Mexico HMER plan. Restricted to: Community Colleges only.

Prerequisite(s): FIRE 115.

FIRE 216. Hazardous Materials Chemistry**3 Credits**

This course provides basic chemistry relating to the categories of hazardous materials including recognition, identification, reactivity, and health hazards encountered by emergency services. Restricted to: Community colleges only.

FIRE 217. Operations in the Wildland-Urban Interface S-215**3 Credits**

Provides training for initial attack incident commanders and company officers confronting wildfire presenting a threat to life and property. Instructional units include: size-up, initial strategy and action plan, structure triage, tactics, action plan, assessment, public relations and follow up, and safety. Presented in a classroom environment. Instructed in accordance to NWCG standards.

Prerequisite: qualified as any Single Resource Boss or FIRE 231.

FIRE 220. Cooperative Experience I**1-3 Credits**

Supervised cooperative work program. Student is employed in an approved occupation and rated by the employer and instructor. May be repeated for a maximum of 6 credits. Graded S/U.

Prerequisite: consent of instructor.

FIRE 221. Cooperative Experience II**3 Credits**

Apply advanced firefighting knowledge and skills while working with fire protection agencies. Meets or exceeds NFPA standards. Consent of instructor required. Graded: S/U. Restricted to: Community Colleges only.

Prerequisite(s): FIRE 220.

FIRE 222. Aircraft Fire Control**3 Credits**

Provides a broad understanding of airport operations required to effectively perform aircraft firefighting and other emergencies. Meets or exceeds NFPA 402, 403, 405 standards. Restricted to: Community Colleges only.

FIRE 223. Fire Investigations I**3 Credits**

This course is intended to provide the student with the fundamentals and technical knowledge needed for proper fire scene interpretation, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the firesetter, and types of fire causes. Restricted to: Community colleges only.

FIRE 224. Strategy and Tactics**3 Credits**

This course provides the principles of fire ground control through utilization of personnel, equipment, and extinguishing agents. Restricted to: Community colleges only.

FIRE 225. Fire Protection Systems**3 Credits**

This course provides information relating to the features and design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. Restricted to: Community colleges only.

FIRE 226. Fire Investigations II**3 Credits**

This course is intended to provide the student with advanced technical knowledge on the rule of law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation and court-room testimony. Restricted to: Community colleges only.

FIRE 230. Fire Service Instructor**3 Credits**

Provides the instructor candidate with methods and techniques of instruction including oral communications, preparing lesson plans, writing performance objectives, use of audio and other training aids, and the selection, evaluation and preparation of performance tests. Meets and exceeds NFPA 1041 Level I standards. Restricted to: Community Colleges only.

FIRE 232. Firefighter Internship**3 Credits**

Application of knowledge, skills and abilities in a fire service department, as a firefighter intern and integrated member of a fire affiliated agency. Restricted to majors.

Prerequisites: FIRE 101, FIRE 102, FIRE 115, FIRE 202 and EMT-B and consent of instructor.

FIRE 233. Practical Approach to Terrorism**3 Credits**

Gives responder an overall safety approach in recognizing and responding to incidents involving terrorism. Presents an overview in types of harm, explosive weapons, chemical weapons, biological weapons and radiological weapons. Restricted to: Community Colleges only. Crosslisted with: LAWE 233

FIRE 251. Incident Command System-NIMS 700**3 Credits**

NIMS provides a consistent nationwide Homeland Security template to enable all government, private-sector, and nongovernmental organizations to work together during domestic incidents, Community Colleges only.

FIRE 252. Vehicle Extrication**2 Credits (1+2P)**

This course will train the student to the Vehicle & Machinery Extrication level I as outlined in NFPA 1006, Standard for Technical Rescuer Professional Qualifications. Vehicle & Machinery Extrication certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

FREN-FRENCH (FREN)

FREN 111. Elementary French I**4 Credits**

French language for beginners.

FREN 112. Elementary French II**4 Credits**

French language for beginners.

Prerequisite: C or better in FREN 111.

FREN 211. Intermediate French I**3 Credits**

Speaking, reading and writing.

Prerequisite: C or better in FREN 112.

FREN 212. Intermediate French II**3 Credits**

Speaking, reading and writing.

Prerequisite: C or better in FREN 211.

FSTE-FOOD SCIENCE & TECHNOLOGY (FSTE)

FSTE 164G. Introduction to Food Science and Technology

4 Credits (3+2P)

An introductory course in the scientific study of the nature and composition of foods and their behavior during all aspects of their conversion from raw materials to consumer food products.

FSTE 175. ACES in the Hole Foods I

4 Credits

Food production activities related to operation of ACES in the Hole Foods, a student-run food company that will give FSTE majors hands-on experience in all aspects of developing, producing and marketing food products Restricted to Las Cruces campus only.

Prerequisite(s): Students enrolled in this class must possess A Food Handler Card.

FSTE 200. Special Topics

1-4 Credits

Specific topics and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

FSTE 210G. Survey of Food and Agricultural Issues

3 Credits

Same as AG E 210G.

FSTE 263G. Food Science I

4 Credits (3+2P)

The scientific study of the principles involved in the preparation and evaluation of foods. May be repeated up to 4 credits.

FSTE 275. ACES in the Hole Foods II

4 Credits

Food production activities related to operation of ACES in the Hole Foods, a student-run food company that will give FSTE majors hands-on experience in all aspects of developing, producing and marketing food products. May be repeated up to 4 credits.

Prerequisite(s): FSTE 175 and Have a Food Handler Card.

FWCE-FISH,WILDLF,CONSERV ECOL (FWCE)

FWCE 109. Contemporary Issues in Wildlife and Natural Resources Management

3 Credits

Ecological, socioeconomic, and political issues surrounding the management of our natural resources with an emphasis on fish and wildlife resources. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

FWCE 110. 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. May be repeated up to 4 credits.

FWCE 255. Principles of Fish and Wildlife Management

3 Credits

Basic principles of fish and wildlife management including history, ecology, economics, and policy. Emphasis on wildlife and fisheries. Uses an ecosystem approach integrating living and nonliving resources.

Prerequisite(s): FWCE 110.

GENE-GENETICS (GENE)

GENE 110. Experimental Systems in Genetics

1 Credit

Survey of molecular, biochemical, organismal, and computer science based approaches to investigate how genes determine important traits. Historical development and topics of current interest will be discussed.

GEOG-GEOGRAPHY (GEOG)

GEOG 111G. Geography of the Natural Environment

4 Credits (3+3P)

Introduction to the physical processes that shape the human environment: climate and weather, vegetation dynamics and distribution, soil development and classification, and geomorphic processes and landform development.

GEOG 112G. World Regional Geography

3 Credits

Overview of the physical geography, natural resources, cultural landscapes, and current problems of the world's major regions. Students will also examine current events at a variety of geographic scales.

GEOG 120G. Culture and Environment

3 Credits

Study of human-environmental relationships: how the earth works and how cultures impact or conserve nature. Introduction to relationships between people and natural resources, ecosystems, global climate change, pollution, and conservation.

GEOG 257. Introduction to Weather Science

4 Credits (3+3P)

Introduction to Earth's atmosphere and the dynamic world of weather as it happens. Working with current meteorological data delivered via the Internet and coordinated with learning investigations keyed to the current weather; and via study of select archives. Crosslisted with: SOIL 257 and AGRO 257

Prerequisite(s): None.

GEOG 259. Introduction to Oceanography

4 Credits (3+3P)

Introduces the origin and development of the ocean and marine ecological concepts. Examines physical processes such as waves, tides, and currents and their impact on shorelines, the ocean floor, and basins. Investigates physical processes as they relate to oceanographic concepts. Includes media via the Internet and laboratory examination of current oceanic data as an alternative to the actual oceanic experience. Students will gain a basic knowledge and appreciation of the ocean's impact on the world's ecology.

GEOG 281. Map Use: Reading, Analysis and Interpretation

3 Credits (2+3P)

Exploration of the cartographic medium. Development of critical map analysis and interpretation skills, and map literacy. Comprised of traditional lecture, labs, and map use projects.

GEOG 291. Special Topics**1-3 Credits**

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

GEOG 295. Introduction to Climate Science**4 Credits (3+3P)**

Examines fundamentals and related issues of Earth's climate system, climate variability, and climate change. Develops solid understandings of Earth's climate system framed in the dynamic, Earth system based approach to the science.

GEOL-GEOLOGY (GEOL)

GEOL 111G. Introductory to Geology**4 Credits (3+3P)**

Covers the fundamental principles of physical geology, including the origin of minerals and rocks, geologic time, rock deformation, and plate tectonics. May be repeated up to 4 credits.

GEOL 212G. The Dynamic Earth**4 Credits (3+3P)**

Introduction to earth systems. Geology and the solid earth, geologic time and earth history, water and the world oceans, atmosphere and weather, the solar system. Community Colleges only.

GEOL 220. Special Topics**1-3 Credits**

Specific subjects to be announced in the Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits. May be repeated up to 12 credits.

GEOL 295. Environmental Geology**3 Credits**

Earth processes that affect humans and their works, properties of rocks and soils, use and application of environmental geologic data.

GER-GERMAN (GER)

GER 111. Elementary German I**4 Credits**

German for beginners. Stress on speaking skills.

GER 112. Elementary German II**4 Credits**

German for beginners and students with one year of high school German. Stress on speaking skills.

Prerequisite: C or better in GER 111.

GER 211. Intermediate German I**3 Credits**

Speaking, reading and writing.

Prerequisite: C or better in GER 112.

GER 212. Intermediate German II**3 Credits**

Speaking, reading and writing.

Prerequisite: C or better in GER 211.

GOVT-GOVERNMENT (GOVT)

GOVT 100G. American National Government**3 Credits**

Class critically explores political institutions and processes including: the U.S. constitutional system; legislative, executive and judicial processes; political parties, elections, media, policy making, civic participation, popular and group influence

GOVT 101. Introductory Government Seminar**1 Credit**

Introduction to the government major. Designed to assist students in planning college experience and preparing for professional or advanced educational opportunities upon graduation. Graded: S/U. Restricted to: Main campus only.

GOVT 110G. Introduction to Political Science**3 Credits**

This class covers fundamental concepts such as justice, sovereignty and power; political theories and ideologies; and government systems that range from democratic to authoritarian.

GOVT 150G. American Political Issues**3 Credits**

Major contemporary problems of American society and their political implications.

GOVT 160G. International Political Issues**3 Credits**

Current developments and issues in world politics.

GOVT 201. Special Topics**3 Credits**

Specific topics to be announced in Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits.

HIST-HISTORY (HIST)

HIST 101G. Roots of Modern Europe**3 Credits**

Economic, social, political, and cultural development from earliest times to about 1700.

HIST 102G. Modern Europe**3 Credits**

Economic, social, political, and cultural development from 1700 to the present.

HIST 110G. Making History**3 Credits**

General introduction to history: how historians carry out research and develop interpretations about the past.

HIST 111G. Global History to 1500**3 Credits**

Global economic, social, political and cultural developments to 1500. Thematic approach.

HIST 112G. Global History Since 1500**3 Credits**

Global economic, social, political and cultural developments since 1500. Thematic approach.

HIST 201G. Introduction to Early American History**3 Credits**

History of the United States to 1877, with varying emphasis on social, political, economic, diplomatic, and cultural development.

HIST 202G. Introduction to Recent American History**3 Credits**

History of the United States since 1877, with varying emphasis on social, political, economic, diplomatic, and cultural development.

HIST 211G. East Asia to 1600**3 Credits**

History of China, Korea, Vietnam, and Japan from earliest times through the sixteenth century. Emphasis on cultural and political developments and their social and economic contexts, and the interaction between East Asian societies.

HIST 212G. East Asia since 1600**3 Credits**

History of China, Korea, Vietnam, and Japan from the sixteenth through the twentieth centuries. Emphasis on internal development of each country, as well as the social and political impact of Western Imperialism, and the emergence of each country's unique version of modern society.

HIST 221G. Islamic Civilizations to 1800**3 Credits**

History of Islamic civilizations to 1800.

HIST 222G. Islamic Civilizations since 1800**3 Credits**

History of Islamic civilizations since 1800.

HIST 261. New Mexico History**3 Credits**

Economic, political, and social development of New Mexico from exploration to modern times. Community Colleges only.

HIST 269. Special Topics**1-3 Credits**

Specific subjects to be announced in the Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits.

HIT-HEALTH INFO TECHNOLOGY (HIT)

HIT 110. Electronic Health Records**3 Credits**

Current electronic health record principles, methods and procedures, and computerized medical record concepts and software applications will be introduced. Restricted to: Community Colleges only.

Prerequisite(s): C S 110 or OECS 105.

HIT 120. Health Information Introduction to Pharmacology**3 Credits**

Introduction to the principles of pharmacology, including drug terminology; drug origins, forms, and actions; routes of administration; as well as the use of generic name drugs, trade name drugs and categories of drugs to treat multiple and specific body systems.

HIT 130. Health Information Technology Anatomy & Physiology**3 Credits**

An introductory course in the basics of human structure and function. Body systems are examined as to how they relate to proper code selection and as part of the functioning of the body as a whole. Restricted to Community Colleges campuses only.

HIT 140. Health Information Introduction to Pathophysiology**3 Credits**

Introduction to the nature of disease and its effect on body systems. Disease processes affecting the human body via an integrated approach to specific disease entities will be presented including a review of normal functions of the appropriate body systems. Diseases will be studied in relation to their etiology, pathology, physical signs and symptoms, diagnostic procedures, complications, treatment modalities and prognosis.

HIT 150. Introduction to Medical Terminology**3 Credits**

The study and understanding of medical terminology as it relates to diseases, their causes and effects, and the terminology used in various medical specialties. Emphasis will be placed on learning the basic elements of medical words, appropriate spelling and use of medical terms, and use of medical abbreviations. Restricted to: Community Colleges only.

HIT 158. Advanced Medical Terminology**3 Credits**

Builds upon the concepts covered in HIT 150 or AHS 120 providing greater understanding of how to properly use and apply medical terminology used in the various health fields. Medical terminology associated with the body system's anatomy and physiology, pathology, diagnostic and therapeutic procedures, pharmacology, and abbreviations will be emphasized. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 150 or AHS 120.

HIT 221. Internship I**1-3 Credits (1-3)**

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: HIT & BOT majors. S/U Grading (S/U, Audit). Restricted to Dona Ana campus only.

HIT 228. Medical Insurance Billing**3 Credits**

Comprehensive overview of the insurance specialist's roll and responsibilities. Concepts and applications that will assist the student in understanding the steps necessary for successfully completing the insurance claim filing and reimbursement processes for various insurance carriers, both private and government, will be emphasized. Restricted to Carlsbad campus only.

Prerequisite(s): HIT/NURS 150; BOT 208.

HIT 240. Health Information Quality Management**3 Credits**

Introduction to basic concepts of quality improvement and performance improvement as they apply to health record systems and the health care industry. Quality assessment and improvement standards and requirements of licensing, accrediting fiscal and other regulatory agencies will be presented.

HIT 248. Medical Coding I**3 Credits (2+2P)**

Comprehensive overview of the fundamentals, coding conventions, and principles of selecting the most appropriate ICD-10-CM/PCS diagnostic and procedure codes. The most recent version of ICD-10-CM/PCS and an in depth study of current Official Coding Guidelines for coding and reporting will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 228.

HIT 255. SPECIAL TOPICS**3 Credits**

Specific topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

HIT 258. Medical Coding II**3 Credits (2+2P)**

Continuation of Medical Coding I. Comprehensive overview of the coding and reporting guidelines, fundamentals, coding conventions, and principles of selecting the most appropriate CPT and HCPCS procedural codes for all medical specialties. The most recent version of CPT and a continued study of the ICD-10-CM/PCS coding conventions and principles will be emphasized. Designed as a medical coding capstone course. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 248.

HIT 268. Health Information Systems**3 Credits**

Overview of health data management, work planning, and organization principles; an introduction to health care information systems; and review of the fundamentals of information systems for managerial, clinical support, and information systems.

HNDS-HUMAN NUTRITION & DIET (HNDS)

HNDS 201. Seminar 1- The Field of Dietetics**1 Credit**

This course will introduce students to the field experience, careers, and professions in nutrition. This course is required for students pursuing a Didactic Program in Dietetics verification statement. May be repeated up to 1 credits. Consent of Instructor required. Restricted to: HNDS majors. Restricted to Las Cruces and Dona Ana campuses.

HNDS 251. Human Nutrition**3 Credits**

Principles of normal nutrition. Relation of nutrition to health. Course contains greater amounts of chemistry and biology than HNDS 163. Open to nonmajors.

HON-HONORS (HON)

HON 115. Journeys of Discovery**1 Credit**

Weekly conversations among students and a faculty member; organized around a particular subject and a small selection of readings. The seminars illuminate the many paths of discovery explored by the New Mexico State University faculty.

Prerequisite(s): Honors eligible.

HON 200. Cognitive Science**3 Credits**

An interdisciplinary investigation of intelligence. Core disciplines include cognitive psychology, computer science (artificial intelligence), philosophy, and linguistics. Examination of perception, memory, language, reasoning, problem solving, and consciousness from the varying perspectives of the core disciplines.

HON 205G. Life, Energy, and Evolution**4 Credits (3+3P)**

Principles of modern biological science with discussion on the impact of this science in today's world. Selected topics include principles of metabolism, genetics, physiology, evolution, and ecology. Students who pass HON 205G will fulfill the same requirements fulfilled by BIOL 111G and BIOL 111GL.

HON 208G. Music in Time and Space**3 Credits**

Survey of music as it interacts with art, mathematics, science (acoustics), and ideas from exotic cultures through the history of Western civilization.

HON 214. Successful Fellowship Writing**1 Credit**

Same as HON 314, for freshmen and sophomores.

HON 216G. Encounters with Art**3 Credits**

A multicultural examination of the principles and philosophies of the visual arts and the ideas expressed through them.

HON 218. Women Across Cultures**3 Credits**

Historical and critical examination of women's contributions worldwide with emphasis on the issues of representation that have contributed to exclusion and marginalization of women and their achievements. Restricted to: Main campus only. Crosslisted with: W S 202G

HON 219G. Earth, Time, and Life**4 Credits (3+3P)**

Covers how the earth's materials form, processes involved in changing the earth's configuration, and extent of people's dependence upon the earth's resources. Includes mineral and energy resources, development of landscapes, environmental problems, evolution of the earth and life forms. May be taken in place of GEOL 111G.

HON 222G. Foundations of Western Culture**3 Credits**

Critical reading of seminal texts relating to the foundations of culture and values in Western civilization, from ancient Greece to about 1700. Focus on the development of concepts of nature, human nature, and the state.

HON 225G. History of Ethics**3 Credits**

A critical examination of questions with respect to the meaning and justification of moral judgments and principles. Provides a basic preparation for serious study of contemporary moral problems.

HON 227G. Plato and the Discovery of Philosophy**3 Credits**

Examines arguments and theories found in the Platonic dialogues with a view to determining the nature and value of philosophy both from Plato's point of view and absolutely.

HON 228G. Religion and the State**3 Credits**

Moral and political questions that arise in connection with church-state relations, including religious toleration, separation of church and state, the individual's moral duty to ignore religious convictions when performing functions of democratic citizenship, and the extent to which these ideas are embodied in our nation's traditions.

HON 229G. The New Testament as Literature**3 Credits**

Literature of the New Testament examined from a literary perspective. Emphasis on translation history of the New Testament, generic features of gospel, epistle and apocalypse, precedent literary models, problems of authorship, classification of New Testament texts.

HON 230G. Bamboo and Silk: The Fabric of Chinese Literature**3 Credits**

Introductory survey of traditional and modern Chinese prose and poetry in translation with emphasis on genre, theme, and social/historical context.

HON 232G. The Human Mind**3 Credits**

Examination of the current understanding of the intricate relationship between mind and matter, with particular emphasis on the functional organization of the human brain. Evolutionary origins of this functional design and its implications for understanding human emotional and cognitive processes.

HON 233. Social Problems**3 Credits**

Introduction to contemporary social problems from multiple perspectives. Discussions of definition, impact, and prospective solutions to major social issues, such as crime, drug abuse, social inequality, family, population, environment, and social change.

HON 234G. The Worlds of Arthur**3 Credits**

Arthurian texts and traditions from medieval chronicle histories to modern novels. Emphasis on both the continuities of the Arthurian tradition and the diversity of genres, media, and cultures that have given expression to the legend.

HON 235G. Window on Humanity**3 Credits**

Anthropology is the most humanistic of the sciences, and the most scientific of the humanities. This course will use anthropological perspectives to examine the human experience from our earliest origins, through the experiences of contemporary societies. We will gain insights into the influence of both culture and biology on shaping our shared human universals, and on the many ways in which human groups are diverse. Restricted to Las Cruces campus only.

HON 237G. Archaeology: Search for the Past**3 Credits**

A critical evaluation of various approaches to understanding prehistory and history. The methods and theories of legitimate archaeology are contrasted with fantastic claims that invoke extraterrestrials, global catastrophes, transoceanic voyages, and extra-sensory perception. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

HON 239G. Medieval Understandings: Literature and Culture in the Middle Ages**3 Credits**

Intensive, interdisciplinary introduction to the thought and culture of medieval Europe. Core texts will include works by St. Augustine, Marie de France, and Dante, as well as anonymous works such as Sir Gawain and the Green Knight, all supplemented by study of medieval art, architecture, philosophy, and social history.

HON 242G. Claiming an American Past**3 Credits**

Survey of history of the United States in the nineteenth and twentieth centuries, with an emphasis on multicultural social and cultural history. Focus on understanding American history from the point of view of dispossessed, impoverished, and disenfranchised Americans who have fought to claim both their rights as Americans and American past.

HON 248G. The Citizen and the State: Great Political Issues**3 Credits**

The fundamental questions of politics: why and how political societies are organized, what values they express, and how well they satisfy those normative goals and the differing conceptions of citizenship, representation, and freedom.

HON 249G. American Politics in a Changing World**3 Credits**

American politics and policies examined from a historical and global perspective. Philosophical underpinnings of American national government, the structure of government based on that philosophy, and the practical implications of both the philosophical and structural base. How American government influences and is influenced by the world community.

HON 265G. Principles of Human Communication Honors**3 Credits**

Study and practice of interpersonal, small group, and presentational skills essential to effective social, business, and professional interaction.

HON 270G. Theatre: Beginnings to Broadway**3 Credits**

Intercultural and historical overview of live theatre production and performance, including history, literature and professionals. Students attend and report on stage productions.

HORT-HORTICULTURE (HORT)

HORT 100G. Introductory Plant Science**4 Credits (3+2P)**

Introduction to the physical, biological, and chemical principles underlying plant growth and development in managed ecosystems. In the laboratory portion of the class, students perform experiments demonstrating the principles covered in lecture. The course uses economic plants and agriculturally relevant ecosystems to demonstrate basic principles. Appropriate for nonscience majors. Same as AGRO 100G.

HORT 110. Athletic Field and Golf Course Management**1 Credit**

Survey of proper management of athletic fields, golf courses and other turfgrass stands. Career opportunities in athletic field and golf course management will be discussed. Course includes field trips to local and regional sports turf facilities.

HORT 200. Special Topics**1-4 Credits**

Specific subjects and credits as announced. Maximum of 4 credits per semester and a grand total of 9 credits. May be repeated up to 9 credits. Consent of Instructor required.

HORT 205. Introduction to Horticulture**3 Credits**

Principles and practices of horticulture. Basic chemical, physical, and biological principles that govern plant growth in different environments. Economics of plant science as related to the field of horticulture. Online course entirely. Intended for non-majors.

HORT 210. Ornamental Plants I**4 Credits (3+2P)**

Covers identification, botanical characteristics, culture, and landscape uses of woody plants. Emphasis on deciduous trees, native shrubs, and evergreens.

HORT 211. Ornamental Plants II**4 Credits (3+2P)**

Identification, botanical characteristics, culture, and landscape uses of woody plants. Emphasis on flowering trees, cacti, and members of the pea and rose families.

HORT 240. Floral Quality Evaluation and Design**2 Credits (1+2P)**

Critical hands-on evaluation of the quality of cut and potted floral and tropical foliage crops, their specific merits and faults, and fundamentals of floral design.

HORT 241. Floriculture Field Practicum**1 Credit**

Participation as team member in the National Intercollegiate Floral Quality Evaluation and Design Competition. Intensive week-long travel for competition, networking with industry, academia, and floriculture tours. May be repeated for a maximum of 3 credits.

Prerequisite(s): HORT 240 or consent of instructor.

HORT 250. Plant Propagation**3 Credits (2+2P)**

Practical methods of propagating horticultural plants by seed, cuttings, layering, grafting, division and tissue culture. Examination of relevant physiological processes involved with successful plant propagation techniques. Same as AGRO 250.

HOST-HOSPITALITY AND TOURISM (HOST)

HOST 155. Special Topics**1-3 Credits (1-3)**

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

HOST 201. Introduction to Hospitality Industry**3 Credits**

Overview of hospitality industry; organization and operation of lodging, food and beverage, and travel and tourism segments; focus on career opportunities and future trends of hospitality industry. Restricted to: Community College campuses only.

HOST 202. Front Office Operations**3 Credits**

Hotel/motel front office procedures detailing flow of business, beginning with reservations and extending to the night audit process. Restricted to: Community College campuses only.

HOST 203. Hospitality Operations Cost Control**3 Credits**

Management of Food & Beverage facilities using cost control techniques. Functional training in menu analysis and development with all phases of product flow through a Food & Beverage organization explored. Restricted to: Community Colleges only.

HOST 204. Promotion of Hospitality Services**3 Credits**

Organization of hotel marketing functions; developing a marketing plan to sell the varied services of the hotel/motel property. Restricted to: Community College campuses only.

HOST 205. Housekeeping, Maintenance, and Security**3 Credits**

Function of housekeeping departments, including personnel, sanitation, maintenance, and materials. A survey of security procedures to include guest protection and internal security of hotel/motel assets. Restricted to: Community College campuses only.

HOST 206. Travel and Tourism Operations**3 Credits**

Transportation, wholesale and retail operations, attractions, the traveler, tourism development, and operational characteristics of tourism business. Restricted to: Community College campuses only.

HOST 207. Customer Service for the Hospitality Industry**3 Credits**

Concepts of service and the customer, integrating the need for service quality, and the continuing efforts to maximize returns for the operation. Classic service styles as well as more modern service techniques are covered. Students gain in-depth managerial knowledge, planning skills, and hands-on techniques for consistently delivering quality and service in a variety of operations. Restricted to: Community College campuses only.

HOST 208. Hospitality Supervision**3 Credits**

Strategies for directing, leading, managing change and resolving conflict. Prepares students to meet expectations of management, guests, employees, and governmental agencies. Restricted to: Community College campuses only.

HOST 209. Managerial Accounting for Hospitality**3 Credits**

Prepares students to make effective business decisions based on financial report information; forecasting, budgeting, cost analysis. Restricted to: Community College campuses only.

Prerequisite(s): BOT 120 or ACCT 252.

HOST 210. Catering and Banquet Operations**3 Credits**

Teaches the basics of catering and banquet operations, including computer coordination, planning, set up, service, and completion. Restricted to Community Colleges campuses only.

HOST 214. Purchasing and Kitchen Management**3 Credits**

Technical purchasing concepts, product selection, and specifications. Safety and sanitation as they relate to food service establishments. Prepares student for work with HACCP programs. Restricted to Community Colleges campuses only.

HOST 216. Event, Conference and Convention Operations**3 Credits**

The ability to successfully plan, organize, arrange, and execute special events is critical to the success of many hospitality organizations. This course gives the student a grounding in the skills necessary to achieve success in this area. A variety of events are discussed and the similarities and differences with conferences and conventions are explored. Students are taught to organize and plan events of varying type and durations. Sales, logistics, and organizing skills are emphasized. Restricted to: Community College campuses only.

HOST 219. Safety, Security and Sanitation in Hospitality Operations**3 Credits**

It is the responsibility of the manager to provide appropriate security, sanitation, and safety precautions in hospitality operations. Preparation for internal and external disasters is an important task for the Hospitality Manager. This course uses the National Restaurant Association ServSafe® training material. Restricted to: Community College campuses only.

HOST 220. Experiential Travel**3 Credits**

Course provides an opportunity for students to plan, prepare for and experience travel to destinations they might not otherwise have visited. Students experience local culture and peoples. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HOST 201 or consent of instructor.

HOST 221. Internship I**1-3 Credits (1-3)**

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEHS, HOST majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

HOST 222. Cooperative Experience II**3 Credits**

Continuation of HOST 221. Restricted to majors. Graded: S/U. Restricted to: Community College campuses only. Restricted to HOST majors.

Prerequisite(s): HOST 221.

HOST 223. Travel Agency Principles**3 Credits**

Travel agents are called upon to exhibit broad knowledge about many different tourism products. This course prepares students to undertake the challenging job of an agent in a travel agency. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

HOST 224. Travel Agency Booking & Operations**3 Credits**

Course trains students to use the common electronic booking software that is found in travel agencies. Familiarization with operational procedures of travel agencies. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HOST 223.

HOST 230. Wedding Events Management**3 Credits**

This course will address various issues that could potentially arise in the preparation and management of a wedding or related event. All aspects of planning and attention to details that will ensure that students are prepared to provide services as a professional wedding planner. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

HOST 239. Introduction to Hotel Management**3 Credits**

This course covers basic management functions in hotels, resorts, Boutique Hotels, Bed & Breakfast establishments, and other lodging operations. All aspects of the operation are covered including guest management, operations, and sales and marketing. Restricted to: Branch campuses only.

HOST 255. Special Topics**3 Credits**

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

HOST 298. Independent Study**1-3 Credits (1-3)**

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated for a maximum of 3 credits.

Restricted to: Community College campuses only.

Prerequisite(s): Minimum 3.0 GPA and sophomore standing.

HRTM-HOTEL/RESTRNT/TOURISM MGT (HRTM)

HRTM 111. Freshman Orientation**1 Credit**

Orientation to university life, including available resources and methods to promote success at NMSU. Open to all freshmen and transfer students. Graded S/U.

HRTM 200. Special Topics**1-4 Credits**

Specific subjects and credits to be assigned on a semester basis for both lecture and laboratory assignments. May be repeated for a maximum of 4 credits.

Prerequisite: consent of instructor.

HRTM 201. Introduction to Tourism**3 Credits**

Survey of travel and tourism development and operating characteristics.

HRTM 221. Introduction to Hospitality Management**3 Credits**

Overview of the major segments of the hospitality industry, with a focus on basic management principles.

HRTM 231. Safety, Sanitation and Health in the Hospitality Industry**2 Credits**

Addresses public health, HACCP, safety and culinary nutrition responsibilities in the hospitality industry. Sanitation certification test allows students to receive national credential.

HRTM 263. Food Production and Service Fundamentals**3 Credits (1+4P)**

Basic overview of food service systems including menu management, purchasing and production. The course includes basic principles of food fabrication and production. Topics include knife skills, culinary terminology, product identification, quality standards, nutritional cooking theory and application of food preparation techniques. The course includes laboratory aspects and demonstration of basic food production techniques, service styles, practices and procedures in food service operations including culinary math. This course provides students with an understanding of food service sanitation and culinary nutrition. Completion of a national certification examination is required. Restricted to Las Cruces campus only.

Prerequisite(s): HRTM 221 or FSTE 263G.

HVAC-HEATING/AC/REFRIGERATION (HVAC)

HVAC 100. EPA Clean Air Act: Section 608**1 Credit**

Refrigerant certification preparation to include basics of refrigerant bearing equipment, ozone depletion and the new legislation, technician categories covered and the certification examination.

HVAC 101. Fundamentals of Refrigeration**4 Credits (3+2P)**

Refrigeration cycle and the various mechanical components. Use of special tools, equipment, and safety precautions.

HVAC 102. Fundamentals of Electricity**4 Credits (3+2P)**

Introduction to electricity theory, OHM's Law, circuits, AC/DC, and practical applications.

HVAC 103. Electrical and Mechanical Controls I**4 Credits (3+2P)**

Applications of basic electrical and mechanical controls. Reading and drawing diagrams of simple refrigerating equipment. Safe use of testing equipment.

Prerequisites: HVAC 101 and HVAC 102, or consent of instructor.

HVAC 110. Professional Development and Leadership**1 Credit**

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: HVAC majors. S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

HVAC 113. Job Shadowing**1 Credit**

Course will expose students to actual HVAC/R field work and provide them knowledge of the expectations of field work as they shadow an HVAC/R technician. Consent of instructor required. Restricted to: Community colleges only.

HVAC 205. Commercial Refrigeration Systems**4 Credits (3+2P)**

Service and maintenance of commercial refrigeration equipment to include evacuation and charging procedures, electrical diagrams, and compressors and accessories.

Prerequisites: HVAC 103 or consent of instructor.

HVAC 207. Residential Air Conditioning Systems**4 Credits (3+2P)**

Applications and types of equipment used in comfort cooling. Preventive maintenance, service, and repairs common to evaporative coolers and refrigerated air conditioning systems. Air properties and psychometrics.

Prerequisite: HVAC 103 or consent of instructor.

HVAC 209. Residential Heating Systems**4 Credits (3+2P)**

Gas and electric systems used in comfort heating. Maintenance procedures, safety, troubleshooting, and servicing malfunctions in equipment.

Prerequisite: HVAC 103 or consent of instructor.

HVAC 210. Commercial Air Conditioning and Heating Systems**4 Credits (3+3P)**

Covers troubleshooting mechanical and electrical problems associated with HVAC equipment in commercial buildings. Includes gas, electric, and heat pump systems. Restricted to Community Colleges campuses only.

Prerequisite(s): HVAC 103 or consent of instructor.

HVAC 211. Heat Pump Systems**4 Credits (3+2P)**

Reverse cycle refrigeration systems utilized in comfort heating and cooling. Troubleshooting mechanical electrical problems associated with heat pumps. HVAC 103 or consent of instructor.

HVAC 213. Practicum**3 Credits**

Working in the field with journeymen service technicians. Develop and apply job skills. Consent of instructor required. Restricted to: Community colleges only.

Prerequisite(s): Consent of instructor.

HVAC 220. Introduction to Sheet Metal Fabrication**4 Credits (3+2P)**

Introduction to sheet metal fabrication to include hands-on practical laboratory applications, cutting and forming procedures, identifying types and gauges. Design and layout techniques.

Prerequisite: OETS 118 or equivalent math or consent of instructor.

HVAC 225. New Mexico Mechanical Codes: HVAC**1-4 Credits**

Principles and regulations developed for HVAC, sheet metal, and plumbing occupations to include terminology, ventilation air supply, exhaust systems, duct systems, combustion air, chimneys and vents, boilers/water heaters, refrigeration, panel and hydronic panel heating, fuel gas piping, storage systems, solar systems, and workmanship standards. May be repeated for a maximum of 12 credits.

HVAC 255. Special Topics**1-6 Credits**

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

HVAC 290. Special Problems**1-4 Credits**

Individual studies related to heating, air conditioning, and refrigeration.

Prerequisites: HVAC 101, HVAC 102, and consent of instructor.

I E-INDUSTRIAL ENGINEERING (I E)

I E 110. Industrial Engineering Orientation

1 Credit

Introduction to Industrial Engineering Department, Facility Research and Resources. Overview of where industrial engineering fits into larger view of all of engineering. Introduction to university resources for industrial engineering students. Restricted to majors.

I E 151. Computational Methods in Industrial Engineering

3 Credits

History, social implications, and application of computers and an introduction to computer programming, word processing, and database management systems. Satisfies General Education computer science requirement.

Prerequisite: MATH 121G.

I E 152. Introduction to Industrial Engineering

2 Credits

Historical development of industrial engineering, present practice and trends.

Prerequisite: MATH 120.

I E 200. Special Problems-Sophomore

1-3 Credits

Directed individual projects. May be repeated for a total of 3 credits.

Prerequisite: consent of faculty member.

I E 217. Manufacturing Processes

2 Credits

Manufacturing methods and industrial processes which include casting, forming and machining. Crosslisted with: E T 217

Prerequisite(s): MATH 121G.

Corequisite(s): I E 217L.

I E 217 L. Manufacturing Processes Laboratory

1 Credit

Laboratory associated with I E 217.

INMT - INDUSTRIAL MAINTENANCE (INMT)

INMT 133. Process Technology and Systems

4 Credits

Provides instruction in the use of common process equipment. Students will use appropriate terminology and identify process equipment components such as piping and tubing, valves, pumps, compressors, turbines, motors, engines, heat exchangers, heaters, furnaces, boilers, filters dryers and other miscellaneous vessels. Included are the basic functions, scientific principles and symbols. Students will identify components on typical Process Flow Diagrams and Process and Instrument Diagrams. Restricted to Carlsbad campus only.

INMT 134. Maintenance Principles

4 Credits

The course is an introduction to the maintenance of equipment utilizing mechanical, electrical and instrumentation concepts. Topics include: hand tools, bearing fundamentals, equipment lubrication, material handling, electrical safety, battery systems, diagrams, electrical production and distribution, transformers, breakers, switches, AC and DC motors, motor controllers and operations, and introduction to automation and instrumentation control. Restricted to Carlsbad campus only.

INMT 165. Equipment Processes

4 Credits

This course introduces power transmission equipment and machinery components, including belt/chain driven equipment, speed reducers, variable speed drives, couplings, clutches, and conveying equipment. Students will learn the operation, maintenance, and troubleshooting for these types of equipment. The course also includes Overhead Crane Certification and Safety. Restricted to Carlsbad campus only.

INMT 205. Programmable Logic Controllers and Applications

4 Credits

Students learn about programmable logic controllers; architecture; programming, interfacing, and applications. Hands-on experience on modern commercial PLC units is the main component. Restricted to Carlsbad campus only.

Prerequisite(s): Computer Literacy (CS 110).

INMT 223. Electrical Repairs

4 Credits

This course outlines for students the types of problems that occur in electrical machinery and systems. The course covers trouble-shooting and diagnosis, preventative maintenance, and how to make necessary repairs. Restricted to Carlsbad campus only.

INMT 235. Mechanical Drives I

4 Credits

This course teaches the fundamentals of mechanical transmission systems used in industrial, agricultural, and mobile applications. Students will learn industrial relevant skills including how to: operate, install and analyze performance, and design basic transmission systems using chains, feed-belts, spur gears, bearings, and couplings. Vibration analysis will be used to determine when to perform maintenance of power transmission components. The course also covers power transmission safety, and introduction to belt and chain drives (applications, installations, and tensioning), and introduction to gear drives, coupling, and bearing, basic troubleshooting, blueprint and print reading, learning the basics of electrical drives and PDM and PM. Restricted to Carlsbad campus only.

INMT 236. Lubrication Process

3 Credits

This course teaches the technical skills needed to operate, install, tune, maintain and troubleshoot automatic lubrication systems. Lubrication concepts, setup and tuning, pneumatic pumps, series-progressive valve systems and microprocessor based lubrication controllers will be covered. The course covers the principles of and importance of lubrication, oils and grease types and applications, lube management (storage, handling, and purity), and PDM and PM. Restricted to Carlsbad campus only.

INMT 237. Hydraulics I

2 Credits

This course teaches fundamentals of hydraulic systems used in industry mobile application. Students learn the basic theory of application of hydraulic and electricity as it applies to hydraulics. Covered in the course are basic systems, principles of flow, pressure, viscosity, filtration, and colling. Also covered are basic components such as motor, pumps, cylinders, piping and control and relief valves. Troubleshooting strategies are discussed, along with blueprint and print reading, and PDM and PM. Industry, relevant skills including how to operate, install, analyze performance, and design basic hydraulic systems, reviewing intermediate hydraulic components and system applications. Restricted to Carlsbad campus only.

INMT 261. Pump Operations I**4 Credits**

This course teaches how to select, operate, install, maintain and repair the many types of pumps used by industry. Students learn the theory and practical application of all types of processed pumps and pipe systems. It covers types, components, and systems operation. It also covers troubleshooting for flow loss and cavitation. Students learn how to select, operate, install, maintain and repair the many types of pumps used by industry. Other topics covered include: Net Positive Suction Head, pump flow/head measurement, pressure head conversion, pressure flow characteristics, cavitation, series/parallel pump operation, mechanical seal/stuffing box maintenance, multi stage operation and construction, positive displacement pumps, turbine, diaphragm, peristaltic, piston, gear, and magnetic pump systems. Restricted to Carlsbad campus only.

INMT 262. Piping Systems**2 Credits**

This course teaches students how to install, maintain and troubleshoot fluid systems such as how to select, size, identify, install a variety of types of piping, fittings, and valves. Measurement techniques from basic to precision measurement, gauging, including the fundamentals of demonsioning and tolerancing will taught. Restricted to Carlsbad campus only.

INMT 263. Mechanical Drives II**4 Credits**

This course teaches the bearings and gears used in heavy duty mechanical transmission systems. This course will emphasize linear access drives, clutches, and brakes. In addition, this course teaches how to set up, operate and apply laser shaft alignment to a variety of industrial applications. This course is a study of the basic concepts and procedures for the maintenance and operations of pumps, turbines, seals, bearings, and compressors. The course will provide the student with the knowledge and skills necessary to perform proper maintenance, repair, replacement and selection of pumps, turbines, seals, bearings and compressors. Also covered are advanced gearbox, coupling and bearings, precision alignment (shaft, flange, and sheave), as well as basic vibration analysis and thermography as troubleshooting and RCA aids. Restricted to Carlsbad campus only.

INMT 264. Rigging**2 Credits**

This course teaches how to safely move loads of different shapes and sizes using a variety of different methods. Students will lift loads and demonstrate how to move it. Students will use hoists, slings, ropes and fittings to learn how to safely lift a wide variety of loads. Included are weight estimation, lifting rules, load ratings (sling, wire, ropes and hoists). Restricted to Carlsbad campus only.

INMT 265. Hydraulics II**2 Credits**

This course teaches advanced hydraulics systems. The student will learn operation of advanced hydraulic systems applications, equipment installation, performance analysis of motors and pumps, accumulators, control, relief and check valve, equipment maintenance, and system design. The course covers accumulators, sequence valves, pilot circuits and unloader valves. Students learn more troubleshooting, hydraulic drives and other applications. Restricted to Carlsbad campus only.

INMT 267. Pump Operations II**2 Credits**

This course teaches the student the disassembly, inspection and reassembly of centrifugal and positive displacement pumps. This course allows the student to identify and replace worn or broken components of pumps, and learn predictive and preventive maintenance principles. Lockout of the pump will be performed in addition to measurements and alignment. Restricted to Carlsbad campus only.

INTEGRATED NATURAL SCIENCES (NSC)

NSC 131. General Sciences**3 Credits (2+2P)**

Designed for Allied Health students to explore the fundamentals of physical and life sciences.

JOUR-JOURNALISM (JOUR)

JOUR 102. Grammar for Journalists**2 Credits**

Instruction of basic grammar, spelling and punctuation. Required for all journalism students with an ACT English score below 25, SAT Verbal below 570, or students who have not taken ACT/SAT tests. Restricted to Las Cruces campus only.

JOUR 105G. Media and Society**3 Credits**

Functions and organization of the mass media system in the United States; power of the mass media to affect knowledge, opinions, and social values; and the impact of new technologies.

JOUR 110. Introduction to Mass Media Writing**3 Credits (2+2P)**

Preparation of copy for broadcasting, print, advertising, and public relations. Introduction to Web applications. Restricted to Las Cruces campus only.

Prerequisite(s): JOUR 102 or ACT score of 25 and above or SAT score of 570 and above.

JOUR 201. Introduction to Multimedia**3 Credits**

Provide students with the basic skills to produce multimedia packages using text, photos, audio and video, as well as social media for professional purposes. Intensive hands-on class using editing software such as Adobe Premiere, Adobe Audition and Photoshop. May be repeated up to 3 credits.

Prerequisite(s): JOUR 110 or Consent.

JOUR 210. Newswriting for Print and Internet**3 Credits (2+2P)**

Intensive laboratory practice in writing news for print media as well as Internet news sites. Restricted to Las Cruces campus only.

Prerequisite(s): JOUR 102 or ACT score of 25 and above or SAT score of 570 and above and JOUR 110.

JPNS-JAPANESE (JPNS)

JPNS 111. Elementary Japanese I**4 Credits**

Japanese language for beginners.

JPNS 112. Elementary Japanese II**4 Credits**

Japanese language for beginners.

Prerequisite: grade of C or better in JPNS 111 or consent of instructor.

JPNS 211. Intermediate Japanese I**3 Credits**

Speaking, reading and writing the Japanese language.

Prerequisite: grade of C or better in JPNS 112 or consent of instructor.

JPNS 212. Intermediate Japanese II**3 Credits**

Speaking, reading and writing the Japanese language.

Prerequisite: grade of C or better in JPNS 211 or consent of instructor.

L SC-LIBRARY SCIENCE (L SC)

L SC 100. Introduction to Libraries**3 Credits**

Overview of libraries, including history and development, responsibilities of library personnel, types of libraries and services, and technology and trends. Restricted to Dona Ana campus only.

L SC 110. Reference and Information Resources I**3 Credits**

Overview of reference services. Introduction to, and evaluation of, basic types of information resources (both print and electronic) and their application in libraries.

L SC 111. Introduction to Information Literacy in an Electronic Environment**3 Credits**

Introduction to the basics of the research process; the organization, location and evaluation of information using print, non-print and electronic resources. Restricted to: Community Colleges only.

L SC 112. Introduction to Consumer Health Information Literacy in an Electronic Environment**3 Credits**

Introduction to consumer health information literacy; the process and organization, location, and evaluation of online information. Restricted to: Community Colleges only.

L SC 120. Cataloging Basics I: Descriptive Cataloging**3 Credits**

Introduction to descriptive cataloging. Restricted to: Dona Ana campus only.

L SC 125. Cataloging Basics II: Classification and MARC Cataloging**3 Credits**

Continuation of descriptive cataloging basics. Introduction to subject analysis, classification and MARC coding. Restricted to: Dona Ana campus only.

L SC 130. Introduction to Technical Services in Libraries**3 Credits**

Introduction to technical services in libraries, including acquisitions, bindery, cataloging, gifts, and serials. Restricted to Dona Ana campus only.

L SC 140. Multimedia Materials and Presentations in Libraries**3 Credits**

Overview of media formats and equipment. Introduction to desktop publishing, presentations, and web-page creation applications in libraries. Restricted to: Community Colleges only.

L SC 150. Library Services for Children and Young Adults**3 Credits**

Library services for children and young adults with an overview of materials, programs, and services for this population. Restricted to: Dona Ana campus only.

L SC 153. Picture Books and Young Children**1 Credit**

If children are to enjoy reading they need to be exposed to books at an early age. This course will provide information to help guide librarians, preschool teachers, parents, and care givers in choosing appropriate books for those younger than six, and how to use books with this age group. Restricted to Dona Ana campus only.

L SC 154. State Children's Book Awards**1 Credit**

Students will explore the state book award offered by their state. Students will read some of the books and plan library programs to promote the award. Restricted to: Dona Ana campus only.

L SC 155. Award Winning Books for Children**1 Credit**

A review of book awards and how to integrate award winning books into school curriculum or public school programming. Restricted to: Community Colleges only.

L SC 156. Boys and Books**1 Credit**

This course looks at why, in general, boys are less interested in books than girls. Students will discover ways libraries can encourage boys to read and develop activities and programs which entice them to do so. Students will also be reading some books recommended for boy readers. Restricted to Dona Ana campus only.

L SC 160. Introduction to Public Services in Libraries**3 Credits**

Introduction to public services in libraries, including circulation, inter-library loan, reference, media services, special collections, and government documents. Restricted to Dona Ana campus only.

L SC 175. Civic Involvement in Library Science**1-3 Credits**

Involvement in an organized community service project or group with a library or information technology component. Promotes awareness of volunteer and community service opportunities. May be repeated for a maximum of 6 credits. Graded: S/U. Restricted to: Dona Ana campus only.

L SC 191. Children's Books and their Movie Adaptations**1 Credit**

For almost as long as there have been popular books for children in the United States, there have been dramatic adaptations of them. What is gained, and lost, when children's books are adapted for the big screen? What is the relationship-or what should the connection be-between works of children's literature and their seemingly inevitable film adaptations? Students will be expected to read several children's books and view the movies based on them and make comparisons. Restricted to: Community Colleges only.

L SC 192. Myths and Legends in Children's Literature**1 Credit**

The student will explore myths and legends from diverse cultures; from European and Asian to those who have their roots in Africa and the Americas. Myths which are similar across several cultures will be compared.

L SC 193. Poetry for Children**1 Credit**

This course will explore the genre of poetry for children. In this class, participants will focus on reading and reviewing poetry for kids, exploring poetry on the Web, and trying interactive approaches for sharing poetry with children. Topics include: study and analysis of poetry, ways to use poetry in the classroom, writing poetry with children. Restricted to: Community Colleges only.

L SC 194. The Art of Picture Books**1 Credit**

Students will develop an understanding and appreciation of the processes of the creation of the visual aspects of children's books, including the development process from preliminary sketches and/or storyboard to the published book; various media and techniques; case studies of individual artists and works. Restricted to: Community Colleges only.

L SC 195. Mysteries for Children**1 Credit**

In this course the student will become familiar with a wide variety of mysteries for children. Ways to use mysteries in the classroom and school library will also be covered. Restricted to Community Colleges campuses only.

L SC 196. Historical Fiction for Children**1 Credit**

This course looks at historical fiction as a genre. Topics include: fiction vs. history, American history in children's literature, world history in children's literature, activities for using historical fiction in a school setting. Restricted to: Community Colleges only.

L SC 197. Fantasy and Speculative Fiction**1 Credit**

This course offers professionals serving school students the opportunity to increase your appreciation and knowledge of fantasy and speculative fiction through intense reading and discussion of representative works. The course will also investigate and consider options using fantasy and speculative fiction in a school setting. Restricted to: Community Colleges only.

L SC 200. Collection Management and Development in Libraries**3 Credits**

Principles of identifying, selecting, acquiring, managing, and evaluating resources for libraries. Restricted to Dona Ana campus only.

L SC 201. Public Libraries**3 Credits**

A study of the American public library and its place in communities. Topics may include history, philosophy, and standards, operations and procedures, governance, funding, personnel materials, user services, outreach and advocacy. Restricted to: Dona Ana campus only.

L SC 202. Academic Libraries**3 Credits**

An examination of the functions of the library within the higher education environment. Topics may include history, philosophy, and organization, operations and procedures, governance, funding, personnel, materials, outreach, and user services. Restricted to: Dona Ana campus only.

L SC 203. School Library Media Specialist**3 Credits**

Principles and practice of managing the school library media center, with an emphasis on its specific educational mission. Topics may include collection development, classes and lesson plans, public relations, administrative procedures, and use of technology. Restricted to Dona Ana campus only.

L SC 210. Technology Planning in Libraries**3 Credits**

Overview of computer applications in libraries. Topics may include automated systems and electronic resources, introduction to evaluation of technology, and writing a technology plan. Restricted to Dona Ana campus only.

L SC 220. Innovative Technology Applications for Libraries**3 Credits**

A look at uses for innovative technologies in libraries. Topics may include blogs, wikis, podcasting and virtual reality libraries. Restricted to Dona Ana campus only.

L SC 221. Experiential Learning I**1-3 Credits**

Student is employed (paid or non-paid) in an approved work site and evaluated by their supervisor. Each credit requires a specified number of hours of on-the-job work experience. Consent of Instructor required. S/U Grading (S/U, Audit). Restricted to Dona Ana campus only.

Prerequisite(s): Consent of instructor.

L SC 222. Experiential Learning II**1-3 Credits**

Continuation of L SC 221. Each credit requires specified number of hours of on-the-job work experience. Consent of Instructor required. S/U Grading (S/U, Audit). Restricted to Dona Ana campus only.

Prerequisite(s): L SC 221 and consent of instructor.

L SC 230. Issues and Ethics in Libraries**3 Credits**

Discussions of current and continuing challenges to effective library service. Topics may include copyright, censorship, intellectual freedom, Internet filtering, problem patrons, security, or other current issues. Restricted to Dona Ana campus only.

L SC 234. Intellectual Freedom in Libraries**1 Credit**

Philosophical and practical information related to library policies about access to library materials. Restricted to: Dona Ana campus only.

L SC 235. Library Security and Safety**1 Credit**

Strategies for safety and security planning in libraries. Restricted to: Dona Ana campus only.

L SC 236. Banned Books**1 Credit**

Banned books, selection policies, and responding to challenges. Restricted to: Dona Ana campus only.

L SC 240. Internet Resources and Research Strategies**3 Credits**

Introduction to retrieving and evaluating information found on the Internet and in selected Internet-accessible databases. Restricted to: Dona Ana campus only.

L SC 250. Reference and Information Resources II**3 Credits**

Evaluation and use of specialized information resources to offer reference services. Emphasis is on virtual reference and other innovative techniques. Restricted to: Dona Ana campus only.

L SC 255. Special Topics**1-3 Credits**

Special topics to be announced in Schedule of Classes. May be repeated for a maximum of 12 credits. Restricted to: Dona Ana campus only.

L SC 260. Cataloging Non-Book Formats**3 Credits**

Introduction to cataloging of various non-book formats and MARC coding. Restricted to: Dona Ana campus only.

L SC 270. Library Science Capstone**3 Credits**

A culmination of all technical courses that are required to receive an Associate of Applied Science from the program centering around the completion of a library related project. Discussions on the role of paraprofessionals in libraries. Restricted to: Dona Ana campus only.

L SC 275. Fundamentals of Library Supervision**3 Credits**

An introduction to supervision of library employees, including student assistants, to create a productive workplace. Restricted to: Dona Ana campus only.

L SC 281. Grant Writing for Libraries**1 Credit**

Introduction to grant writing for libraries. Restricted to: Dona Ana campus only.

L SC 286. Children's Literature and the Primary Curriculum**3 Credits**

The student will research the use of picture books and other children's literature across the curriculum with students in kindergarten through second grade. Topics include: using literature to teach writing, using literature to teach science, using literature to teach math, using literature to teach social studies. Restricted to: Community Colleges only.

L SC 287. Children's Literature and the Intermediate Curriculum**3 Credits**

The student will research the use of picture books and other children's literature across the curriculum with students in grades three through five. 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 288. Children's Literature and the Middle School Curriculum**3 Credits**

The student will research the use of picture books and other children's literature across the curriculum in grades six through eight. Topics include: using literature to teach writing, using literature to teach science, using literature to teach math, using literature to teach social studies. Restricted to: Community Colleges only.

L SC 290. Introduction to Children's Literature for Libraries**3 Credits**

This course will introduce current and potential library personnel to a wide variety of literature written for children. The course explores the history of children's literature and the path it has taken. Students will read many books from a variety of genre, explore the literary elements found in those books, and develop some evaluation criteria and ways for children to respond to the literature they read. Restricted to Dona Ana campus only.

L SC 291. Southwestern Children's Literature**1 Credit**

This course will introduce students to books which can teach the children visiting your library more about the people and places of the southwest. Restricted to: Dona Ana campus only.

L SC 292. Native American Children's Literature**1 Credit**

This course will introduce students to some children's and young adult books written by and about Native Americans. Restricted to: Dona Ana campus only.

L SC 295. Introduction to Young Adult Literature**3 Credits**

The course will expose students to quality adolescent literature available for reading and study in middle and high school classes. It provides a broad survey of young adult literature and focuses on building an appreciation of literature, encouraging student reading, developing life-long readers, and developing activities for critical thinking. Restricted to: Community Colleges only.

L SC 296. Multicultural Books for Children and Youth**3 Credits**

This course explores a wide range of multicultural children's literature including: African American, Native American, Latino, Asian, Jewish, and Middle Eastern. Topics covered include: nonfiction of the cultures, historical fiction of the cultures, and contemporary literature of the cultures. Restricted to: Community Colleges only.

L SC 298. Independent Study**1-3 Credits**

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated for a maximum of 12 credits. Restricted to: Dona Ana campus only.

LANG-LANGUAGE (LANG)

LANG 111. Beginning Language I**4 Credits**

Developing language skills through study abroad for languages not offered at NMSU main campus. Specific languages to be identified with course subtitles. Main campus only.

Prerequisite: Language placement exam or consent of the instructor.

LANG 112. Beginning Language II**4 Credits**

Developing language skills through study abroad for languages not offered at NMSU main campus. Specific languages to be identified with course subtitles. Main campus only.

Prerequisite: Language placement exam or consent of instructor.

LANG 211. Intermediate Language I**3 Credits**

Developing language skills through study abroad for languages not offered at NMSU main campus. Specific languages to be identified with course subtitles.

LANG 212. Intermediate Language II**3 Credits**

Developing language skills through study abroad for languages not offered at NMSU main campus. Specific languages to be identified with course subtitles.

Prerequisite: Language placement exam or consent of instructor.

LATIN (LAT)

LAT 112. Elementary Latin II

4 Credits

Latin for beginners. Restricted to: Main campus only.

Prerequisite(s): C or better in LAT 111.

LAWE-LAW ENFORCEMENT (LAWE)

LAWE 201. Introduction to Juvenile Delinquency

3 Credits

An introductory overview of the juvenile justice system of due process, custody, detention and release. Note: course does not meet upper division requirements towards completion of Bachelor of Science in Criminal Justice. Restricted to: Community Colleges Only.

LAWE 202. Police Patrol Procedures

3 Credits

A critical review of police procedures and the influences on police behavior; policy development, including the police role; discretion; police community interaction and arrest, search and seizure. Restricted to: Community Colleges only.

LAWE 203. Introduction to Police Supervision

3 Credits

An introductory overview of police supervision and concerns as it applies to law enforcement. (Note: Course does not meet upper division requirements toward completion of Bachelor of Science in Criminal Justice.) Restricted to: Community Colleges only.

LAWE 204. Introduction to Homeland Security

3 Credits

A historical perspective of international and domestic terrorist threats and the need to develop cohesive response policies and practices in the interest of National Security. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.] Restricted to: Community Colleges only.

Prerequisite(s): C J 101.

LAWE 205. Practical Field Investigations

4 Credits (3+3P)

Incorporates the current methods and techniques for the management of the crime scene, includes documentation, collection and preservation of evidence and case presentations. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.] Restricted to Community Colleges campuses only.

Prerequisite(s): C J 101 and C J 221.

LAWE 206. Traffic Enforcement and Crash Investigations

3 Credits

History and development of traffic laws and regulations, including basic elements of traffic violations, detection, apprehension, impaired drivers and guidelines and procedures for effective crash investigations and reporting. Restricted to: Community Colleges only.

LAWE 207. Legal Aspects of Law Enforcement

3 Credits

An evaluation of police authority including responsibilities, civil liability, liability implications, legal obligations, legal restraints, laws of arrest, and search and seizure. Restricted to: Community Colleges only.

LAWE 210. Introduction to Law Enforcement

3 Credits

An introduction to Criminal Justice System in our democratic society with emphasis on Law Enforcement, Criminal Justice Administration and application. (This is a Law Enforcement Academy Certification Course.) Consent of instructor required. Restricted to: Dona Ana campus only. Restricted to LAWE majors.

Corequisite(s): LAWE 211, 212, 213, 214, 215, 216, 217, 218, 219, 222 & OEEM 155.

LAWE 211. Policing in America

3 Credits

The study of Law Enforcement concepts in an American society with emphasis on law and order at the federal, state and local agencies. (This is a Law Enforcement Academy Certification course.) Consent of instructor required. Restricted to: Dona Ana campus only. Restricted to LAWE majors.

Corequisite(s): LAWE 210, 212, 213, 214, 215, 216, 217, 218, 219, 222 & OEEM 155.

LAWE 212. Patrol Procedures

3 Credits

Basic patrol concepts with emphasis on police patrol activities including the practices and procedures necessary to perform the patrol functions and report writing. (This is a Law Enforcement Academy Certification course.) Consent of instructor required. Restricted to: Dona Ana campus only. Restricted to LAWE majors.

Corequisite(s): LAWE 210, 211, 213, 214, 215, 216, 217, 218, 219, 222 & OEEM 155.

LAWE 213. Criminal Investigations

3 Credits

Fundamentals of criminal investigations including scene security, evidence collection, traffic accidents, case preparation and report writing. (This is a Law Enforcement Academy Certification course.) Consent of instructor required. Restricted to: Dona Ana campus only. Restricted to LAWE majors.

Corequisite(s): LAWE 210, 211, 212, 214, 215, 216, 217, 218, 219, 222 & OEEM 155.

LAWE 214. Criminal Law & Court Procedures

3 Credits

Concepts on the rule of law, substantive and procedural law including liability, crimes against persons and property. (This is a Law Enforcement Academy Certification course.) Consent of instructor required. Restricted to: Dona Ana campus only. Restricted to LAWE majors.

Corequisite(s): LAWE 210, 211, 212, 213, 215, 216, 217, 218, 219, 222 & OEEM 155.

LAWE 215. Emergency Vehicle Operations

1 Credit

Instruction on operating a patrol vehicle, procedures for emergency driving including legal issues related to emergency vehicle operations. (This is a Law Enforcement Academy Certification course.) Consent of instructor required. Restricted to: Dona Ana campus only. Restricted to LAWE majors.

Corequisite(s): LAWE 210, 211, 212, 213, 214, 216, 217, 218, 219, 222 & OEEM 155.

LAWE 216. Traffic Law and Procedures**3 Credits (2+3P)**

Instruction on law of motor vehicles including traffic enforcement operations and law enforcement officer's role in report writing, hazardous materials incidents and accident investigations. (This is a Law Enforcement Academy Certification course.) Consent of instructor required. Restricted to: Dona Ana campus only. Restricted to LAWE majors.

Corequisite(s): LAWE 210, 211, 212, 213, 214, 215, 217, 218, 219, 222 & OEEM 155.

LAWE 217. Custody and Defensive Tactics**3 Credits**

Instruction on the mechanics of arrest, custodial procedures, use of force, transporting prisoners and defensive tactics for officer protection. (This is a Law Enforcement Certification course.) Consent of instructor required. Restricted to: Dona Ana campus only. Restricted to LAWE majors.

Corequisite(s): LAWE 210, 211, 212, 213, 214, 215, 216, 218, 219, 222 & OEEM 155.

LAWE 218. Basic Firearms**3 Credits (1+6P)**

Familiarization on the operation and maintenance of firearms, safety, use of deadly force, body armor and marksmanship. (This is a Law Enforcement Academy Certification course.) Consent of instructor required. Restricted to: Dona Ana campus only. Restricted to LAWE majors.

Corequisite(s): LAWE 210, 211, 212, 213, 214, 215, 216, 217, 219, 222 & OEEM 155.

LAWE 219. Law Enforcement Report Writing**4 Credits**

Covers police, corrections, security and pre-sentence reports, including writing and use of forms. (This is a Law Enforcement Academy Certification course.) Consent of instructor required. Restricted to: Dona Ana campus only. Restricted to LAWE majors.

Corequisite(s): LAWE 210, 211, 212, 213, 214, 215, 216, 217, 218, 222 & OEEM 155.

LAWE 221. Law Enforcement Internship**3 Credits**

Application of knowledge, skills and abilities, in an agency as an intern and integrated member of a law enforcement affiliated agency.

Prerequisite: consent of instructor.

LAWE 222. Law Enforcement Physical Fitness**2 Credits**

Instruction on health and physical fitness concepts, flexibility, strength, body composition and cardiovascular endurance. (This is a Law Enforcement Academy Certification course.) Consent of instructor required. Restricted to: Dona Ana campus only. Restricted to LAWE majors.

Corequisite(s): LAWE 210, 211, 212, 213, 214, 215, 216, 217, 218, 219 & OEEM 155.

LAWE 233. Practical Approach to Terrorism**3 Credits**

Gives responders an overall safety approach in recognizing and responding to incidents involving terrorism. Presents and overview in types of harm, explosive weapons, chemical weapons, biological weapons and radiological weapons. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.]

Restricted to: Dona Ana campus only. Crosslisted with: FIRE 233

LIB-LIBRARY SCIENCE (LIB)

LIB 101. Introduction to Research**1 Credit**

A practical, hands-on, step-by-step introduction to the basics of university-level library research. Topics include the academic method, plagiarism, selection and use of information resources. (Eight-week course.)

LIB 111. Introduction to Information Literacy in an Electronic Environment**3 Credits**

Introduction to the basics of the research process; the organization, location and evaluation of information using print, non-print and electronic resources; and techniques of effective personal information management in a computerized setting. Uses a combination of active and hands-on learning methods as well as lectures.

LING-LINGUISTICS (LING)

LING 200G. Introduction to Language**3 Credits**

Traditional fields of language study (sound, grammar, meaning) and newer ones (language as social behavior, language and cognition, language variation, animal communication).

M E-MECHANICAL ENGINEERING (M E)

M E 102. Mechanical Engineering Orientation**1 Credit**

Emphasis on tours of M E labs and NMSU facilities that illustrate possible career paths for mechanical engineers. Students are introduced to department faculty, student organizations, and support services at NMSU. Topics include role of good communication skills, using modern technology, team building, and intellectual property. Students are advised in planning balance of their academic program. Restricted to majors.

M E 159. Graphical Communication and Design**2 Credits (1+3P)**

Sketching and orthographic projection. Covers detail and assembly working drawings, dimensioning, tolerance specification, and design projects. Pre/

Corequisite(s): MATH 190G.

M E 201. Supplemental Instruction to Dynamics**1 Credit**

Optional workshop for students in M E 237. The workshop focuses on problem solving skills associated with M E 237. Course does not count toward departmental degree requirements. May be repeated up to 1 credits. Restricted to Las Cruces campus only.

Corequisite(s): M E 237.

M E 202. Supplemental Instruction to Thermodynamics**1 Credit**

Optional workshop for students in ME 240. The workshop focuses on problem solving skills associated with ME240. Course does not count toward departmental degree requirements. Restricted to Las Cruces campus only.

Corequisite(s): M E 240.

M E 210. Electronics and System Engineering**3 Credits (2+3P)**

Introduction to microcontrollers, measurement systems, motion actuators, sensors, electric circuits, and electronic devices and interfacing. Students required to work individually and in teams to design and test simple electromechanical systems. Restricted to Las Cruces campus only.

Prerequisite(s): MATH 192.

M E 222. Introduction to Product Development**3 Credits (2+3P)**

Introduction to modern methods used in the realization of products. Traditional manufacturing processes, such as metal stamping, turning, milling, and casting are reviewed. Modern methods of rapid prototyping and model making are discussed in context of computer-aided design. Techniques for joining metals, plastics, and composites are discussed. Role of quality control is introduced.

Prerequisite: M E 159.

M E 228. Engineering Analysis I**3 Credits**

Introduction to engineering analysis with emphasis on engineering applications. Topics include ordinary differential equations, linear algebra, and vector calculus with focus on analytical methods. Restricted to Las Cruces campus only.

Prerequisite(s): MATH 291.

M E 234. Mechanics-Dynamics**3 Credits**

Kinematics and dynamic behavior of solid bodies utilizing vector methods.

Prerequisite(s)/Corequisite(s): MATH 291G. **Prerequisite(s):** C E 233.

M E 236. Engineering Mechanics I**3 Credits**

Force systems, resultants, equilibrium, distributed forces, area moments, friction, and kinematics of particles. Pre/ Restricted to: Main campus only.

Prerequisite(s): MATH 192G.

Corequisite(s): PHYS 215G.

M E 237. Engineering Mechanics II**3 Credits**

Kinetics of particles, kinematics and kinetics rigid bodies, systems of particles, energy and momentum principles, and kinetics of rigid bodies in three dimensions. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 291. **Prerequisite(s):** M E 236 or C E 233.

M E 240. Thermodynamics**3 Credits**

First and second laws of thermodynamics, irreversibility and availability, applications to pure substances and ideal gases.

Prerequisite: PHYS 215G.

M E 261. Mechanical Engineering Problem Solving**3 Credits (2+3P)**

Introduction to programming syntax, logic, and structure. Numerical techniques for root finding, solution of linear and nonlinear systems of equations, integration, differentiation, and solution of ordinary differential equations will be covered. Multi function computer algorithms will be developed to solve engineering problems.

Prerequisite(s): MATH 192.

M SC-MILITARY SCIENCE (M SC)

M SC 110. Introduction to Military Science**2 Credits (2+1P)**

Concepts of leadership, including basic drill, fitness sessions, rappelling, first aid, map reading, and basic marksmanship. Optional physical fitness sessions and weekend exercises.

M SC 111. Introduction to Leadership**2 Credits (2+1P)**

Learning and application of leadership, as well as relating organizational ethics to effective leadership using communication skills to improve individual performance. Optional physical fitness sessions and weekend exercises.

M SC 210. Self/Team Development**3 Credits (3+1P)**

Learning and application of leadership skills to building effective teams, using oral/written skills, planning, and coordination of group efforts. Include advanced first aid, land navigation, and basic military tactics. Leadership Lab and three physical fitness sessions per week required.

M SC 211. Leadership in Action and Team Building**3 Credits (3+1P)**

Individual and team aspects of military tactics in small unit operations. Use of radio, movement, planning for safety/security and pre-execution checks. Continued leadership development and techniques for training others. Leadership Lab and three physical fitness sessions per week required.

M SC 225. Directed Studies**1-3 Credits**

Individual directed studies under supervision of designated faculty. May be repeated for a maximum of 12 credits. No S/U option.

Prerequisite: GPA 2.5 or better.

MAT-AUTOMATION & MANUFACTURING (MAT)

MAT 102. Print Reading for Industry**3 Credits (2+2P)**

Reading, interpretation, and revisions of industrial technical drawings common to manufacturing, Aerospace, machine parts, electrical, hydraulic, and Pneumatic drawings. Interpretation of engineering drawings and related shop calculations. Introduction Crosslisted with: AERT 113. Restricted to: Community Colleges only.

MAT 105. Introduction to Manufacturing**3 Credits**

Introduction to manufacturing evolution from basic assembly process to modern automated processes. Covers history, employability, soft skills, quality measurements, teamwork concept, production requirements, and considerations in plan layout and design. Minimum math proficiency of CCDM 114 required or math placement into MATH 120 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 112

MAT 106. Applied Manufacturing Practices**3 Credits (2+2P)**

Course will illustrate how various products are manufactured along with associated process. Mechanical behavior such as bending, cold worked, strained, work hardened, and heat transfer will be emphasized as well. In lab, students will learn how to make selected products starting from prints to complete projects including quality control. Crosslisted with: AERT 114. Restricted to: Community Colleges only.

MAT 107. Computer Integrated Manufacturing PLTW**3 Credits (2+2P)**

Applies principles of robotics and automation to Computer Aided Design (CAD) design. The course builds on computer solid modeling skills developed in Introduction to Engineering Design, and Design and Drawing Production. Students use Computer Numerical Control (CNC) equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing, and design analysis are included. 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 & Zygo). Instruction to use of coordinate machine while covering the safety issues that pertains to these types of tools and equipment. Restricted to: Community Colleges only.

MAT 110. Machine Operation and Safety**3 Credits (2+2P)**

Introduction to the operation and safety aspects of various types of machinery and equipment, including both mechanical and electrical machines, Rigid Tubing, and Flexible Lines. Maintenance and safety operation of industrial equipment will also be covered. Restricted to: Community Colleges only. Crosslisted with: AERT 115

MAT 130. Applied Industrial Electricity I**4 Credits (3+2P)**

Electrical safety, AC and DC circuits, use and care of common measuring instrumentation, schematic and wiring diagrams, electromagnetism, National Electric Code branch circuits. Restricted to: Community Colleges only.

Prerequisite(s): MATH 120 or ELT 120 or OETS 118.

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 149. Industrial Mechanical Elements**3 Credits (2+2P)**

Introduction to mechanical systems, theory, characteristics and uses for the different types of mechanical power transmission systems used in the industry, and related industrial safety practices. Topics include: safety, drives, shafts, maintenance and lubrication. Restricted to: Community Colleges only.

MAT 151. Introduction to Metalworking I**3 Credits (2+2P)**

Measuring instruments, including steel rules, combination and transfer tools, micrometers, vernier instruments, bevel instruments, and indicators. Shop safety and first aid, introduction to cutting fluids, saws and sawing, and drill presses. Restricted to: Community Colleges only.

MAT 205. Statistical Controls for Manufacturing Technicians**3 Credits (2+2P)**

Use of hardware and software for quality assurance to include the design of experiments, sampling techniques, SPC, control chart application and development, and process reliability. Restricted to: Community Colleges only.

Prerequisite(s): ELT 120 or MATH 120.

MAT 221. Cooperative Experience I**1-6 Credits**

Supervised cooperative work program. Student is employed in an approved occupation and rated by employer and instructor. Student meets in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

MAT 234. Industrial Electricity Maintenance**3 Credits (2+2P)**

Introduction into electrical systems, theory and uses for the different types of motors used in the industry and related industrial safety practices. DC, AC stepper and servo motors, motor speed and torque, motor performance, and efficiency, motor control fundamentals using variable frequency drives, vector controls, servo and stepper drives. Restricted to: Community Colleges only.

MAT 235. Programmable Logic Controllers Pneumatics**2 Credits (1+2P)**

Introduction to theory and application of pneumatic power transfer and control. Programmable logic controllers (PLC s) introduced as controlling elements for electropneumatic systems. Restricted to: Community Colleges only.

MAT 240. Electromechanical Devices**4 Credits (2+4P)**

Theory and application of electromechanical devices and digital control circuits. Includes AD and DA converters, pneumatics, hydraulics, programmable logic controllers, DC, AC, and stepper motors, and servomechanisms. Crosslisted with: AERT 211

Prerequisite(s): MAT 160 and (MAT 105 or (MAT 110 & MAT 135)). Restricted to: Community Colleges only.

MAT 245. Electromechanical Systems**3 Credits (2+2P)**

Electromechanical system interfacing. Principles and applications of preventive and corrective maintenance procedures on industrial production machines using system technical and maintenance manuals to develop troubleshooting procedures using systems block and schematic diagrams. Crosslisted with: AERT222.

Prerequisite(s)/Corequisite(s): AERT 211 or MAT 240. Prerequisite(s): ELT 135 and ELT 160. Restricted to: Community Colleges only.

MAT 265. Special Topics**1-6 Credits**

Course subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

MATH-MATHEMATICS (MATH)

MATH 101. General Supplemental Instruction I

1 Credit

Collaborative workshop for students enrolled in Intermediate Algebra. S/U Grading (S/U, Audit).

Corequisite(s): MATH 120.

MATH 102. General Supplemental Instruction II

1 Credit

Collaborative workshop for students enrolled in College Algebra. S/U Grading (S/U, Audit).

Corequisite(s): MATH 121G.

MATH 107. Topics in Mathematics

1-3 Credits

Topics to be announced in the Schedule of Classes. Maximum of 3 credits per semester. Total credit not to exceed 6 credits. Community Colleges only.

Prerequisite: consent of instructor.

MATH 111. Fundamentals of Elementary Mathematics I

3 Credits

Numbers and the four operations of arithmetic. Understanding and comparing multiple representations of numbers and operations, in particular how these representations build from whole numbers to integers to fractions and decimals. Applying properties of numbers and operations in contextual situations. Reasoning, communicating, and problem solving with numbers and operations. Applications to ratio, and connections with algebra. Taught primarily through student activities and investigations. Restricted to: EDUC,EPAR,E ED,ECED majors.

Prerequisite(s): ENGL 111G and grade of C or better in MATH 120.

MATH 112G. Fundamentals of Elementary Math II

3 Credits

Geometry and measurement. Multiple approaches to solving problems and understanding concepts in geometry. Analyzing and constructing two- and three-dimensional shapes. Measurable attributes, including angle, length, area, and volume. Understanding and applying units and unit conversions. Transformations, congruence, and symmetry. Scale factor and similarity. Coordinate geometry and connections with algebra. Reasoning and communicating about geometric concepts. Taught primarily through student activities and investigations.

Prerequisite(s): C or better in MATH 111.

MATH 120. Intermediate Algebra

3 Credits

Linear and algebraic functions as they arise in real world problems. Exponential and logarithmic functions. Equations and inequalities and their solutions considered symbolically, graphically and numerically.)

Prerequisite: adequate score on the Mathematics Placement Examination (see note above).

MATH 121G. College Algebra

3 Credits

Fundamental concepts of functions, including algebraic and graphical properties. Fitting functions to data. Finding zeroes and extreme values. Solving systems of equations.

Prerequisites: Adequate math placement score or C or better in MATH 120.

MATH 142G. Calculus for the Biological and Management Sciences

3 Credits (2+2P)

Review of functions. Derivatives, exponential and logarithmic functions, antiderivatives and indefinite integrals, basic ordinary differential equations and growth models, with an emphasis on applications. Includes a significant writing component.

Prerequisite(s): C or better in MATH 121G.

MATH 190G. Trigonometry and Precalculus

4 Credits (3+2P)

Elementary functions used in the sciences with emphasis on trigonometric functions and their inverses. Polar coordinates. Complex numbers and Euler's formula. Analytic geometry and vectors.

Prerequisite: adequate score on Mathematics placement exam or a C or better in MATH 121G (see note at beginning of this section).

MATH 191G. Calculus and Analytic Geometry I

4 Credits

Limits and continuity, theory and computation of derivatives, applications of derivatives, extreme values, critical points, derivative tests, L'Hopital's Rule.

Prerequisite(s): C or better in MATH 190G.

MATH 192G. Calculus and Analytic Geometry II

4 Credits

Riemann sums, the definite integral, antiderivatives, fundamental theorems, techniques of integration, applications of integrals, improper integrals, Taylor polynomials, sequences and series, power series and Taylor series.

Prerequisite(s): C or better in MATH 191G.

MATH 192GH. Calculus and Analytic Geometry II Honors

4 Credits (3+1P)

A more advanced treatment of the material of MATH 192G with additional topics. Consent of Instructor required. Restricted to Las Cruces campus only.

Prerequisite(s): Consent of Department.

MATH 200. Directed Study

1-3 Credits

May be repeated for a maximum of 6 credits. Graded S/U.

Prerequisite: consent of the instructor.

MATH 210G. Mathematics Appreciation

3 Credits

Mathematics and its role in the development and maintenance of civilization.

Prerequisites: High school algebra, and an adequate score on the Mathematics Placement Examination.

MATH 215. Fundamentals of Elementary Mathematics III

3 Credits

Probability, statistics, ratios, and proportional relationships. Experimental and theoretical probability. Collecting, analyzing, and displaying data, including measurement data. Multiple approaches to solving problems involving proportional relationships, with connections to number and operation, geometry and measurement, and algebra. Understanding data in professional contexts of teaching. Taught primarily through student activities and investigations.

Prerequisite(s): C or better in MATH 112.

MATH 235. Calculus for the Technical Student I

3 Credits

Intuitive differential and integral calculus with applications to engineering.

Prerequisite: C or better in MATH 190G.

MATH 236. Calculus for the Technical Student II**3 Credits**

A continuation and extension of the material in MATH 235.

Prerequisites: C or better in MATH 235 or in MATH 192G.

MATH 242. Calculus for the Biological and Management Sciences II**3 Credits**

Calculus of functions of several variables, techniques of integration, differential equations, infinite series. Applications.

Prerequisite: C or better in MATH 142G.

MATH 275G. Spirit and Evolution of Mathematics**3 Credits**

Same as HON 275G.

MATH 279. Introduction to Higher Mathematics**3 Credits**

Logic; sets, relations, and functions; introduction to mathematical proofs.

Prerequisite(s): C- or better in MATH 192.

MATH 280. Introduction to Linear Algebra**3 Credits**

Systems of equations, matrices, vector spaces and linear transformations. Applications to computer science.

Prerequisite(s): Grade of C- or better in MATH 192G.

MATH 291G. Calculus and Analytic Geometry III**3 Credits**

Vector algebra, directional derivatives, approximation, max-min problems, multiple integrals, applications, cylindrical and spherical coordinates, change of variables.

Prerequisite: grade of C or better in MATH 192G.

MATH 292. Calculus and Analytic Geometry IV**3 Credits**

Vector calculus, linear algebra, selected topics. Community Colleges only.

Prerequisite: grade of C or better in MATH 291G or equivalent.

MGT-MANAGEMENT (MGT)

MGT 201. Introduction to Management**3 Credits**

Covers the functioning and administration of different types of complex organizations. Concepts and theories of management and organizational behavior.

MKTG-MARKETING (MKTG)

MKTG 180. PGA Golf Management Freshman Orientation**3 Credits**

Introduction to the Policies and Procedures of the PGA Golf Mgt. Program and the PGA of America Students will also be introduced to the Qualifying Level of the PGA's Educational Program, Rules of Golf, PGA Constitution and the History of the PAG. Additional course fee required. Consent of Instructor required. Restricted to: PGA Golf Management Students. MKTG/PGM majors.

MKTG 181. Level 1, PGA's PGM Education Program (Part 1)**3 Credits**

Introduction of Level 1 of the PGA's Educational Program. This class will focus on Business Planning and Operations, Customer Relations, and the corresponding PGA Work Experience Activities. Additional course fee required. Consent of Instructor required. Restricted to: MKTG/PGM majors.

MKTG 203. Introduction to Marketing**3 Credits**

Covers processes, functions and principles in the current marketing system. Includes role of marketing in the economy, types of markets, product development, distribution channels, pricing and promotion strategies, market research and management of the processes. Community Colleges only.

MKTG 280. Level 1, PGA's PGM Education Program (Part 2)**3 Credits**

Continuation of Level 1 of the PGA's PGM Education Program. This class will focus on Tournament Operations, Golf Car Fleet Management 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/PGM majors.

MKTG 281. Level 1, PGA's PGM Education Program (Part 3)**1.5 Credits**

Completion of Level 1 of the PGA's PGM Education Program. This class will focus on Introduction to Teaching and Golf Club Performance and the corresponding PGA Work Experience Activities. Additional course fee required. Consent of Instructor required. Restricted to: MKTG/PGM majors.

MUS-MUSIC (MUS)

MUS 101G. An Introduction to Music**3 Credits**

An introduction to music for the non-music major to encourage the enjoyment of listening to and understanding the world's great music from the past to the present.

MUS 102. Fundamentals of Music**3 Credits**

Introduction to music notation, meter and rhythm, scales, intervals, triads, seventh chords, fundamentals of harmonic progression, and aural skills. For students with little or no music theory background. Traditional Grading with RR.

MUS 103. Ear Training I**1 Credit**

To develop the ability to accurately hear, identify, sing and notate musical elements including rhythm, melody, intervals and harmony Traditional Grading with RR. Restricted to Las Cruces campus only.

Prerequisite(s): Passing the Theory Placement exam or making a C or better in MUS 102.

MUS 104. Ear Training II**1 Credit**

To develop the ability to accurately hear, identify, sing and notate musical elements including rhythm, melody, intervals and harmony Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C- or better in MUS 103.

MUS 105. Music Theory I**3 Credits**

Introduction to vocabulary and syntax of 4-voice 18th c. chorale music through study and harmonic analysis.

Prerequisite(s): Passing the Theory Placement exam or making a C or better in MUS 102.

MUS 106. Music Theory II**3 Credits**

Expansion of vocabulary and syntax of 4-voice 18th c. chorale music through study, harmonic analysis, and part writing.

Prerequisite(s): Grade of C or better in MUS 105.

MUS 117. Jazz Improvisation**2 Credits**

Techniques for extemporaneous playing; jazz harmonic practice. Traditional Grading with RR. Restricted to Las Cruces campus only.

Prerequisite(s): A grade of C or better in MUS 103 and MUS 105.

MUS 121. Concert and Recital Laboratory**0.5 Credits**

Serves as a resource and performance lab for all applied areas of musical study. Music majors are expected to perform during the weekly student recital and must attend a designated number of musical performances during the semester. May be repeated up to 4 credits. Restricted to: Music and Music Education majors. S/U Grading with RR. Restricted to Las Cruces campus only.

MUS 130. Applied Music**1-2 Credits**

Private or group instruction for non-music majors, secondary instruments, and music majors preparing for 200-level applied music. May be taken for unlimited credit.

MUS 141. Class Voice I**1 Credit**

Group instruction in voice and vocal pedagogy for instrumental Music Education majors, offering basic principles of healthy vocal production with particular attention to diction, development of vocal range, and the ability to impart that knowledge to elementary, junior and/or high school age students. Restricted to: Music Education majors. Traditional Grading with RR. Restricted to Las Cruces campus only.

MUS 145. Functional Piano I**2 Credits**

Scales, chords, memorization. Harmonization of simple melodies with the ability to play simple melodies and rhythms. May be taken for unlimited credit. Restricted to music majors. No S/U option.

MUS 146. Functional Piano II**2 Credits**

Scales, chords, memorization. Harmonization of simple melodies with the ability to play simple melodies and rhythms. May be taken for unlimited credit. Restricted to music majors. No S/U option.

Prerequisite: MUS 145 or consent of instructor.

MUS 147. Functional Piano III**2 Credits**

For music majors preparing for the Piano Proficiency Examination. May be taken for unlimited credit. Restricted to music majors. No S/U option.

Prerequisite: MUS 146 or consent of instructor.

MUS 150. Orchestra**1 Credit**

Participation in the Las Cruces Symphony at NMSU. This is a full symphony orchestra concentrating on masterworks of the literature. May be taken for unlimited credit.

MUS 151. Philharmonic Orchestra**1 Credit**

The University Philharmonic Orchestra is open to all students and performs a wide variety of standard orchestral literature. The orchestra performs each semester and the objectives include refining technique, stylistic characteristics, intonation, balance, bowings, color, rhythmic integrity and dynamics. May be repeated up to 10 credits. Restricted to Las Cruces campus only.

Prerequisite(s): by audition only.

MUS 160. University Singers**1 Credit**

Select concert and touring choir of undergraduate and graduate students performing a cappella and accompanied choral literature. May be repeated up to 10 credits. Restricted to Las Cruces campus only.

Prerequisite(s): By audition only.

MUS 161. Concert Choir**1 Credit**

Campus choir composed of both music and non-music majors. Emphasis on vocal techniques, sight-singing, and basics of choral musicianship. May be taken for unlimited credit.

MUS 162. Master Works Chorus**1 Credit**

Combination campus and community chorus. This group will perform the major chorale compositions for orchestra and/or wind ensemble. May be taken for unlimited credit.

MUS 163. Jazz Ensembles**1 Credit**

Performance ensemble that explore repertoire written for big band, including (but not limited to) dance band, swing, and contemporary compositions. May be repeated up to 10 credits. Restricted to Las Cruces campus only.

Prerequisite(s): By audition only.

MUS 164. Chamber Ensembles**1 Credit**

Small groups of singers and/or instrumentalists that perform chamber music. May be repeated up to 16 credits. Restricted to Las Cruces campus only.

Prerequisite(s): by audition only.

MUS 170. Wind Symphony**1 Credit**

This elite ensemble of 50 highly qualified graduate and undergraduate students performs a varied repertoire of the highest quality literature for winds. Members will also perform concerts of chamber winds literature each semester. This ensemble is dedicated to professional level performance while fostering the musical growth of its members. Conducted by the Director of Bands, this group serves as the flagship for the entire university bands program. May be repeated up to 10 credits. Restricted to Las Cruces campus only.

Prerequisite(s): By audition only.

MUS 171. Roadrunner Revue Pep Band**1 Credit**

For both music and nonmusic majors. Opportunity to perform a variety of music in a showband setting. May be taken for unlimited credit.

Prerequisite: by audition only; contact band office for date and time.

MUS 172. Marching Band**1 Credit**

For both music and nonmusic majors. Opportunity to perform all varieties of music in a contemporary styled marching unit. May be taken for unlimited credit.

MUS 174. Percussion Ensemble**1 Credit**

Study and performance of contemporary percussion ensemble literature. May be repeated up to 5 credits. Restricted to Las Cruces campus only.

Prerequisite(s): by audition only.

MUS 180. Symphonic Band**1 Credit**

This is a select large ensemble, chosen by audition. It provides a challenging musical environment for skilled performers by programming repertoire that ranges from works for chamber winds, to standards of the wind band literature, to cutting edge literature. Conducted by the Associate Director of Bands, this ensemble is comprised of music majors and non-music majors alike and provides the less experienced student an opportunity to hone and refine performance skills. May be repeated up to 10 credits. Restricted to Las Cruces campus only.

Prerequisite(s): By audition only.

MUS 181. Campus Band**1 Credit**

This is a non-auditioned ensemble designed to meet the needs of students from all majors across campus. Music majors are encouraged to enroll while performing on a secondary instrument. Marching band members are also encouraged to take the course to build skills and leadership. This ensemble provides an educational experience and serves as an outlet for students who wish to remain musically active in a less intense setting. May be repeated up to 10 credits. Restricted to Las Cruces campus only.

MUS 201G. History of Jazz in Popular Music: A Blending of Cultures**3 Credits**

Jazz in popular music as it relates to music history and the development of world cultures.

MUS 202. An Introduction to World Music, Jazz and Music Research**3 Credits**

Introduces world music and jazz within a historical and cultural context, considering significant musical figures, forms, genres, styles, and representative works. A major component will be the development of effective research and scholarly writing skills for the music major or minor. May be repeated up to 3 credits. Restricted to: Music majors and minors. majors. Restricted to Las Cruces campus only.

MUS 203. Ear Training III**1 Credit**

Continuation of MUS 104, advanced sight singing, dictation. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C- or better in MUS 104.

MUS 204. Ear Training IV**1 Credit**

Continuation of MUS 203, advanced sight singing, dictation. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C or better in MUS 203 and MUS 205.

MUS 205. Music Theory III**3 Credits**

Analysis of Baroque and Classical Music. Vocabulary and syntax of 18th and 19th c. Western art music through study, chordal/formal analysis, and composition. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C or better in MUS 106.

MUS 206. Music Theory IV**3 Credits**

Analysis of Romantic, Post-Romantic, Impressionist, and Twelve-Tone Music. Vocabulary and syntax of late 19th and early 20th c. Western art music through study, micro/macro analysis, and composition. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C or better in MUS 205.

MUS 207. Music History and Literature: Antiquity through Baroque**3 Credits**

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, MUS majors.

Prerequisite(s): A grade of C- or better in MUS 103, 105, and 202.

MUS 230. Applied Music I**1-4 Credits**

Individual instruction to develop technique, musicianship, performance and improvisational skills, as well as knowledge of significant repertoire. May be repeated up to 16 credits. Consent of Instructor required.

Restricted to: Music and Music Education majors. Traditional Grading with RR. Restricted to Las Cruces campus only.

Prerequisite(s): Audition.

MUS 250. Introduction to Music Education**2 Credits**

Overview of the basic principals and practices of the music education profession in K-12 settings, emphasizing philosophy and history of music education, methodologies commonly utilized in school curricula, music in special education, classroom/rehearsal management and lesson planning. Explores many aspects of public school teaching through class discussions and directed observations. Restricted to Las Cruces campus only.

MUS 251. Opera Workshop**1 Credit**

Study, translation, analysis, rehearsal and performance of opera. May be repeated up to 10 credits. Restricted to Las Cruces campus only.

Prerequisite(s): by audition only.

MUS 260. Special Topics I**1-3 Credits**

Emphasis on special areas of music; designed for highly motivated students. May be taken for unlimited credit.

MUS 261. Functional Piano IV**2 Credits**

For music majors preparing for Piano Proficiency Examination. May be taken for unlimited credit. Restricted to music majors. No S/U option.

Prerequisite: MUS 147 or consent of instructor.

MUS 262. Diction I**2 Credits**

Introduction to the international phonetic alphabet, and its application to English, Italian, Spanish, and Latin song literature. Main campus only. Restricted to Las Cruces campus only.

MUS 263. Diction II**2 Credits**

Advanced grammar and detailed study of Italian, German and French diction and song literature for vocal students. Restricted to music majors. Main campus only.

Prerequisite: MUS 262 or consent of instructor.

MUS 273. Introduction to Music Technology**1 Credit**

Introduction to uses of technology in musical settings. Practical applications in digital music notation, MIDI sequencing, and digital audio recording. Restricted to: MUS, M ED majors. Traditional Grading with RR. Restricted to Las Cruces campus only.

Prerequisite(s): MUS 105.

NA - NURSING ASSISTANT (NA)

NA 101. Nursing Assistant Theory and Lab**6 Credits (5+3P)**

Nurse aide skills with emphasis on a bio-psychosocial-cultural approach to client care. Practice of these skills is provided in the laboratory as well as at a clinical site. Successful completion of the course prepares and qualifies the student to take the NACES certification examination. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): (CCDR 110N with C or better OR appropriate placement score) and (CCDE 110N with C or better OR appropriate placement score) and (CCDM 103N with C or better OR appropriate placement score).

NA 103. Introduction to Health Care Services**3 Credits**

Introduction to health care services, functions and responsibilities of a nurse aide, ethical and legal considerations, communication and medical terminology.

NA 104. Nursing Assistant Fundamentals**3 Credits**

This course prepares students for employment as a Nursing Assistant in a Long Term Care Facility. Theory and basic nursing care skills will be taught with an emphasis being placed on the psychosocial-cultural approach to client care. Students will learn communication skills, basic anatomy and physiology, growth and development, infection control, body mechanics, basic nutrition, client/resident elimination needs, the client/resident unit, vital signs, range of motion exercises, bed making, rehabilitation and restorative care, client admission and discharge, common health problems, dealing with death and dying, and basic medical terminology. NA 104 and NA 104L (laboratory) must be successfully completed with a C- or better in order to continue to NA 105 Nursing Assistant Clinical. NA 105 must also be successfully completed with a C- or better to be eligible to take the state certification competency examination. Attendance is required to meet the federal requirements for training hours and content prior to direct contact with a patient/resident and the state competency examination. Restricted to Community Colleges campuses only.

Prerequisite(s): Test out of all CCDE and CCDR courses and eligible to take ENGL 111G.

Corequisite(s): NA 104 L.

NA 104 L. Nursing Assistant Fundamentals Lab**1 Credit**

This course prepares students for employment as a Nursing Assistant in a Long Term Care Facility. Students will learn and demonstrate personal care skills including bathing, grooming, dressing, toileting, assisting with eating and hydration, skin care, transfers and positioning. Students will also learn and demonstrate the use of assistive devices, and how to maintain resident safety, dignity and privacy. NA 104 & NA 104L must be successfully completed with a C- or greater in order to continue to NA 105 Clinical. NA 105 must be successfully completed with a C- or greater to be eligible to take the state certification competency examination.

Prerequisite(s)/Corequisite(s): NA 104. Prerequisite(s): English COMPASS score of 35 or greater or CCDE 110N, and reading COMPASS score of 55 or greater or CCDR 105N. Restricted to Community Colleges campuses only.

NA 105. Nursing Assistant Clinicals**4 Credits (3+3P)**

Extension of basic fundamentals of personal care, including theory, skills and clinical experience leading to the certified Nursing Assistant Examination at the conclusion of the semester. Continuation of NA 104. Requires a C or better to pass. Restricted to: Community Colleges only.

Prerequisite(s): C or better in NA 104 or consent of instructor.

NA 106. Home Health Assistant**4 Credits (3+3P)**

Theory, skills and clinical experience leading to a job working with clients in the home environment. Prepares the certified nursing assistant for certification in the home health care arena.

Prerequisite: current CNA or consent of instructor.

Corequisites: CCDM 114N and CCDE 110N.

NA 107. Medication Assistant**5 Credits (4+3P)**

Theory, skills, and clinical to prepare the student to meet the State of New Mexico requirements to distribute medication in a residential setting to Medicaid DD waiver clients.

Prerequisites: CCDM 114N and CNA, or consent of instructor.

NA 108. Disabilities Support Services**4 Credits (3+2P)**

Beginning level preservice preparation for providing in-home care for individuals with disabilities. Crosslisted with: AHS 108. Restricted to: Community Colleges only.

Prerequisite(s): NA 101 or NA 104 or Consent of Instructor.

NA 109. Phlebotomist Basic**4 Credits (2+4P)**

This course provides the latest information, techniques, skills, and equipment for blood and specimen collection based on the standards of the Clinical and Laboratory Standards Institute, Needlestick Prevention Act, Joint Commission 2008 National Patient Safety Goals, OSHA and CDC. An advanced skills lab is included in the course to provide a "hands-on" practice experience and a 30 hour practicum in a supervised work environment collecting blood and specimens on actual patients for laboratory tests. Attendance is mandatory. Prepares students for employment as a phlebotomist in health care settings. Requires a "C" or better to pass. Upon successful completion of the course, student has the opportunity to test for National Healthcareer Certification. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): BIOL 154 or BIOL 226. Restricted to Community Colleges campuses only.

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

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

Prerequisite(s): BIOL 154 OR BIOL 225 & BIOL 226.

NA 111. Alzheimer/Dementia Care Focus**3 Credits**

Students will learn respectful care of Alzheimer/Dementia persons while ensuring their dignity, maximizing safe independence focusing on strengths and abilities. Pre/

Prerequisite(s)/Corequisite(s): NA 104 or NA 101. Restricted to: Community Colleges only.

NA 112. Patient Care Assistant**4 Credits (2+4P)**

This course prepares students to become patient care assistants (certified nursing assistant [CNA]). The course prepares students in the areas of critical thinking, collaboration with healthcare team members and performance of Certified Nursing Assistant skills within acute care units including: out-patient care unit (pre-operative), medical-surgical unit, orthopedic unit, mother-baby (obstetrics) and the mental health inpatient unit. Lab and clinical time will include learning skills in a practice setting with mannequins and in a hospital for acute care skill learning and application. Must pass course with a C- or better.

Prerequisite(s): NA-101 or current State of New Mexico Certified Nursing Assistant (CNA) certificate (CNA certification must remain current through end of course).

Corequisite(s): Current Basic Life Support (BLS) for the Health Care Provider (American Heart Association) (BLS certification must remain current through end of course).

NA 115. Phlebotomist Technician**6 Credits (3+6P)**

Basic theory and skills of phlebotomy following OSHA and Center for Disease Control guidelines. Prepares students for the requirements of testing for the ASCP certification exam and employment in a healthcare organization as a phlebotomist in licensed settings. Laboratory hours include infection control skills & practice, patient assessment & teaching, and practice in venipuncture. Clinical time includes clinical laboratory processes and operations, patient assessment, venipuncture, and exposure to clinical policies and procedures. Upon successful completion students are workforce ready.

Prerequisite(s)/Corequisite(s): OEEM 101. Restricted to Community Colleges campuses only.

NA 204. Patient Care Technician**4 Credits (3+3P)**

This course will prepare Certified Nursing Assistants (CNAs) to work in the acute care setting through an expansion of their existing basic skill set. Students will acquire expanded acute care skills, critical thinking skills, and knowledge in caring for patients of all ages. Currently CNA certified. Restricted to Community Colleges campuses only.

Prerequisite(s): (NA 104, NA 105, NA 109, NA 110, AHS 120, and (BIOL 154 or (BIOL 225 & BIOL 226)).

Corequisite(s): NA 205.

NA 205. Patient Care Technicians Practicum**4 Credits (1+9P)**

This course will prepare Certified Nursing Assistants (CNAs) to work in the acute care setting through an expansion of their existing basic skill set. Students will acquire expanded acute care skills, critical thinking skills, and knowledge in caring for patients of all ages. Students will go to acute care settings to practice newly acquired skills. Must have a "C" or better to pass. Restricted to Community Colleges campuses only.

Prerequisite(s): (NA 104, NA 105, NA 109, NA 110, AHS 120, & (BIOL 154 or (BIOL 225 & BIOL 226))) Currently CNA Certified.

Corequisite(s): NA 204.

NA 212. Medical Assistant Capstone Course**5 Credits (4+3P)**

This course provides the student with entry-level theory and limited "hands-on" training in basic and routine clinical office tasks. The course will equip the Medical Assistant (MA) student with the competencies required to perform in a medical office under the direct supervision of a physician. The graduate will be able to assist the physician with physical exams, ECGs, phlebotomy, and minor surgical procedures. May be repeated up to 5 credits. CNA Certification within the last 5 years.

Prerequisite(s): NA 105, NA 110, NA 109, AHS 120, BIOL 154, HIT 110, BOT 208, HIT 228, HIT 248, HIT 258.

NA 214. Medical Assistant Practicum**6 Credits (1+6P)**

This course is the practicum for NA 212 Medical Assistant Fundamentals Capstone Course. Students will prepare for a career as a medical assistant in medical offices and clinics. During practicum students will observe and participate in 180 hours in a supervised work environment using knowledge and skills learned in NA 212. This course includes weekly post-practicum conferences with the instructor. The student will be evaluated by both the employer and the instructor. Requires a "C" or better to pass. Upon successful completion the student may be eligible to test for National Certification. May be repeated up to 6 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): NA 212. Prerequisite(s): NA 105, NA 110, NA 109, AHS 120, BIOL 154, HIT 110, BOT 208, HIT 228, HIT 248, HIT 258. CNA Certified within the last 5 years. Restricted to Community Colleges campuses only.

NAV-NAVAJO (NAV)

NAV 101. Introduction to Navajo Studies**3 Credits**

Covers geography, demography, institutions of modern Navajo society with historical overview. Restricted to: Community Colleges only.

NAV 111. Elementary Navajo I**4 Credits**

Navajo for beginners with emphasis on speaking skills.

Prerequisite: not open to Navajo-speaking students except by consent of instructor.

NURS-NURSING (NURS)

NURS 120. Introduction to Pharmacology**3 Credits**

General principles of pharmacology including methods of administration, effect on the body, interactions with other drugs, and classification of drugs. Focus on the health care provider's role in safe pharmacologic intervention. Restricted to Allied Health majors. Restricted to: Community Colleges only.

NURS 130. Foundations of Pharmacology**3 Credits**

This course provides the nursing student with an introduction to the foundations of pharmacology including: science of drug action, principles of medication administration, accurate calculation of drug doses, medication therapy across the lifespan, application of medications to treat health alterations, normal and adverse responses by the client to medication therapy, medication safety, medication regulation, national patient safety goals, and appropriate nursing interventions to achieve the desired goals of medication therapy. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 147 & NURS 149.

NURS 134. Foundation of Nursing Skills and Assessment**3 Credits (1+6P)**

This course provides nursing students with introductory nursing knowledge related to performance of nursing skills and assessment including: techniques of fundamental nursing care, basic and intermediate nursing skills, and foundational physical assessment techniques associated with care across the lifespan. Open to students who have been accepted into the nursing program. Restricted to: NUR majors. Restricted to: Community Colleges only.

Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 136 & NURS 137 or permission of the Program Director.

NURS 136. Foundations of Nursing Practice**6 Credits (4+6P)**

This course will introduce the nursing student to foundational theoretical concepts of professional nursing practice, the nursing process, and foundational nursing skills. It includes developmental concepts related to clients across the lifespan. Clinical experiences in the simulation lab, long-term care, the community, and rehabilitation settings will provide the student with the opportunity to apply learned skills to provide total care to meet needs of one adult client and to develop care planning skills related to actual problems. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 134, NURS 136 lab & NURS 137 or permission of the Program Director.

NURS 137. Care of Geriatric Patient**3 Credits**

This course will introduce the nursing student to foundational concepts of age-appropriate/specific care of the older adult who represents the largest population of individuals placing demands on the healthcare system. It includes basic and complex concepts and issues related to care of the older client across the care continuum, provision of cost-effective care in a resource sparse environment. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NURS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Admission into the nursing program.

Corequisite(s): NURS 134 & NURS 136 or permission of the Program Director.

NURS 140. Pathophysiology for Allied Health Professionals**3 Credits**

Introduction to the nature of disease and its effect on body systems. Deals with the disease processes affecting the human body via an integrated approach to specific disease entities. Includes a review of normal functions of the appropriate body systems. Diseases are studied in relationship to their etiology, pathology, physical signs and symptoms, diagnostic procedures, complication, treatment modalities, and prognosis. Restricted to Allied Health and Health Information Technology majors. Restricted to: Community Colleges only.

Prerequisite: a grade of C or better in OEHO 140.

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): NURS153, NURS156, NURS154, NURS157, and NURS210 or consent of program director.

NURS 147. Adult Health I**6 Credits (4+6P)**

This course focuses on application of the nursing process and theoretical concepts of care for adults with commonly occurring health problems. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to continue development of: prioritization skills, proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, care planning skills related to patient actual, psychosocial, and potential problems in the delivery of total nursing care to meet needs of one adult client. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NUR majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 130, NURS 147 lab, & NURS 149, or permission of the Program Director.

NURS 148. Physical Assessment**2 Credits (1+3P)**

Introduction of concepts and techniques of interviewing, history taking, review of body systems, and physical assessment of an adult client. The student should be able to apply knowledge of anatomy and physiology, assessment skills, communication skills, cultural awareness, nursing process, critical thinking skills, teaching skills, and psychomotor skills. Restricted to: Community Colleges only.

NURS 149. Mental Health Nursing**3 Credits (2+3P)**

This course will allow the nursing student to develop skills necessary to provide nursing care for clients with mental health problems in various health care settings including: common mental health disorders, psychosocial dysfunction, psychosocial safety/substance abuse issues, violence, suicide, restraints, developmental age related pathophysiology, psychopharmacology, cultural/religious considerations, grief/loss, promotion of mental health, and therapeutic communication. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to develop ability to develop: proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, care planning skills related to patient actual, psychosocial, and potential problems in the delivery of total nursing care to meet needs of one client across the life span with acute/chronic mental health needs. Students must be concurrently enrolled in both the lecture and lab sections of this course. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 130, NURS 147, & NURS 149L, or permission of the Program Director.

NURS 150. Medical Terminology**3 Credits**

Understanding of the basic elements of medical words. Use of medical abbreviations. Same as OEHO 120 and BOT 150.

NURS 153. Medication and Dosage Calculation**1 Credit**

Techniques of dosage calculation for medication and fluid administration. RR applicable.

Prerequisite(s): Meet NMSU basic skills requirement in mathematics or consent of program director.

Corequisite(s): NURS156 and NURS154.

NURS 154. Physical Assessment**2 Credits**

Beginning techniques of physical assessment by systems will be presented using the nursing process as a guide for providing safe client centered care throughout the life span. Grade of C or better is required. May be repeated up to 2 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only.

Prerequisite(s): BIOL 154 or BIOL 225 or consent of program director.

Corequisite(s): NURS 153, NURS 156.

NURS 155. Special Topics**1-4 Credits**

Specific subjects to be announced in the Schedule of Classes.

NURS 156. Basic Nursing Theory and Practice**6 Credits (4+6P)**

Introduction to the nursing profession and the beginning skills of nursing practice as it relates to normalcy. The nursing process is presented as a means of guiding the student in providing safe client centered care. Ethical and legal aspects of nursing practice are also included. Basic clinical nursing skills will be presented and practiced in the nursing lab. The student will perform these skills with clients in an actual health care setting. May be repeated up to 6 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only.

Prerequisite(s): Consent of Program Director.

Corequisite(s): NURS 153, NURS 154.

NURS 157. Maternal/Child Health Deviations**8 Credits (6+6P)**

The concepts and principles of nursing care of the family from conception to adolescence. Utilizing the nursing process, the student provides safe client centered care to diverse clients and families. Theoretical instruction is applied to client care situation. Students collaborate with clients, families and the interdisciplinary team in meeting health care needs. Experiences may occur in any of the regional health care facilities. Grade of C or better required. May be repeated up to 8 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 156, NURS 153, and NURS 154 or consent of program director.

Corequisite(s): NURS 210.

NURS 180. The Adult Client I**8 Credits (4+12P)**

Holistic care of the adult client throughout the lifespan, utilizing the nursing process to address personal wellness and acute alterations in wellness in a variety of health care settings. Laboratory and clinical practicum will focus on application of the nursing process in simulated and real world settings. Restricted to: Community Colleges only.

Prerequisite(s): NURS 170, NURS 172, and NURS 173L.

Corequisite(s): NURS 185.

NURS 182. Legal and Ethical Issues in Nursing Practice**2 Credits**

Introduction to legal and ethical implications of nursing practice (through the holistic approach to wellness) as a registered nurse. Restricted to: Community Colleges only.

NURS 185. Holistic Approach to Pharmacotherapeutic Intervention I**2 Credits**

Level I. Holistic approach to the study of basic pharmacology concepts. Includes pharmacodynamic phases of drug interaction. Nursing process is discussed in relation to medication administration. Special emphasis on the role of the nurse and basic concepts related to specific drug categories. Restricted to: Community Colleges only.

Prerequisite(s): NURS 170, NURS 172, and NURS 173L.

Corequisite(s): NURS 180.

NURS 201. Special Topics**1-4 Credits**

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 10 credits. Restricted to: Community Colleges only.

Prerequisite: admission to the nursing program.

NURS 209. Independent Study**1-4 Credits**

Individual studies to meet identified student needs. May be repeated for a maximum of 10 credits. Restricted to: Community Colleges only.

Prerequisite: admission to the nursing program.

**NURS 210. Pharmacological Requisites of the Childbearing Family
1 Credit**

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care will be discussed focusing on medications commonly utilized with the childbearing family. Medication classes to be discussed include labor and delivery, analgesic, vitamins, respiratory, gynecological, endocrine, and anti-microbial/anti-infective drugs. Grade of C or better required. Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 225 and BIOL 226 or consent of instructor and NURS 153, NURS 154 and NURS 156.

Corequisite(s): NURS 157.

**NURS 211. Pharmacological Requisites of Simple Health Deviations
1 Credit**

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care are addressed focusing on medications related to the psychiatric, gastrointestinal, musculoskeletal, gynecological, hematological, and anti-neoplastic client. Grade of C or better required. Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 225 and BIOL 226 or consent of instructor and NURS 153, NURS 154, NURS 156, NURS 157 and NURS 210.

Corequisite(s): NURS 246 and NURS 258.

**NURS 212. Pharmacological Requisites of Complex Health Deviations
1 Credit**

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care is examined focusing on medications related to complex health deviations. Drug classes to be discussed include cardiovascular, renal, endocrine, and neurological. Grade of C or better required. Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 225 and BIOL 226 or consent of instructor, and NURS 153, NURS 154, NURS 156, NURS 157, NURS 246, NURS 258, NURS 210 and NURS 211.

Corequisite(s): NURS 256 and NURS 260.

**NURS 224. Maternal Child Nursing
5 Credits (4+3P)**

This course provides the intermediate nursing student with an in-depth review of care of the childbearing woman, family structures and roles, and nursing care of the child from birth through adolescence. Emphasis includes the care of pre-partum, intra-partum and postpartum clients, the neonate and health deviations in pediatric clients. Clinical experiences in the simulation lab, the community, and acute care settings will provide the student with the opportunity to apply learned skills to provide total care to meet needs of up to two adult, neonatal, or pediatric clients and to apply care planning skills related to actual, psychosocial and potential problems. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 224 lab, NURS 235, & NURS 236, or permission of the Program Director.

**NURS 226. Adult Health II
6 Credits (4+6P)**

This course focuses on application of nursing process and theoretical concepts of care for adults with complex health alterations. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to apply: prioritization skills, maintain proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, and care planning skills related to patient actual, psychosocial, and potential problems in the delivery of nursing care to meet needs of three adult clients. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 224, NURS 226 lab, & NURS 235 or permission of the Program Director.

**NURS 234. Community Health Nursing
1 Credit**

This course provides an introduction to community health, focusing on health care systems, epidemiology, and nursing care of individuals, families and aggregates of varied cultural backgrounds. Primary, secondary, and tertiary prevention are emphasized. Diverse roles of the community health nurse are examined. Educational theories and their applications are explored. Restricted to: Community Colleges only.

**NURS 235. Nursing Leadership and Management
1 Credit**

This course introduces the intermediate nursing student to professional practice principles of nursing leadership and management including: health policy and politics, fiscal management & budgeting, conflict management, decision making, interdisciplinary practice, working with teams, roles in disaster planning and management, application of standards of care to risk management, organization of care delivery, health care systems, processes, and practice environments. May be repeated up to 1 credits. Restricted to: NUR majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 224, NURS 226 & Clinical Or Permission of the Program Director.

**NURS 236. Nursing Preceptorship - Adult Health III
6 Credits (2+12P)**

This course is the final course involving care of the patient with acute or chronic illness. It focuses on care of patients with complex or multi-system problems allowing the graduating nursing student to discuss and apply all the skills learned in previous nursing courses. After successfully passing the HESI exam, students have clinical practice with preceptor in various health care settings. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to: organize care of a group of clients, maintain proficiency in performance of nursing skills, collaborate with clients, families, peers and health care team members, and support care planning skills related to patient actual, psychosocial, and potential problems in the delivery of nursing care to meet needs of the preceptors group of clients. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program and have successfully completed all level 1, 2 and 3 nursing courses may enroll in this course. Clinical may include inpatient or outpatient care, days, evenings, nights, or weekend experiences. Students are required to work the preceptors assigned schedule. Restricted to: NUR majors. Restricted to: Community Colleges only.

Prerequisite(s): Admission into the Nursing Program.

Corequisite(s): NURS 201, NCLEX Review or permission of the Program Director.

**NURS 246. Health Deviations I
7 Credits (4+9P)**

Introduction to medical/surgical clients, whose health care needs are routine and predictable. Focus is on simple health deviations, including concepts relative to health promotion and maintenance. The nursing process is utilized to provide evidenced based, safe client centered care. Students are expected to apply clinical judgment, communicate and collaborate with clients and the interdisciplinary team in providing care for a group of two to three clients. Grade of C or better required. May be repeated up to 7 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, NURS 156, NURS 154, NURS 157 and NURS 210 or consent of program director.

Corequisite(s): NURS 211, NURS 258.

**NURS 256. Health Deviations II
8 Credits (4+12P)**

Concepts and principles applied to clients with complex health deviations. Building upon knowledge gained in NURS 246, focus will be on acutely ill clients. The nursing process continues to serve as a guide to provide safe, client centered care. The student collaborates with the interdisciplinary team in all aspects of client care. Student experiences the role of the staff nurse under the guidance and direction of the nursing instructor. Grade of C or better required. May be repeated up to 8 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, 154, 156, 157, 210, 211, 246, and 258 or consent of program director.

Corequisite(s): NURS 212, NURS 260.

**NURS 258. Psychosocial Requisites: A Deficit Approach
3 Credits (2+3P)**

Nursing theory and practice as it relates to the care of the client experiencing psychosocial health deviations. The role of the nurse is discussed along with the ethical and legal aspects of care for the client with psychosocial disorders. Building upon the communication skills of listening and responding, the student develops the therapeutic skills of interpersonal relationships. Grade of C or better is required. May be repeated up to 3 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, 154, 156, 157, 210, 246, and 258 or consent of program director.

Corequisite(s): NURS 211, NURS 246.

**NURS 260. Management of Patients with Health Deviations
2 Credits (2)**

A capstone course to the nursing program in which principles in management and delegation to less prepared personnel is explored. A review of leadership roles, legal issues, quality initiatives, informatics and scope of practice is included. Preparation for the NCLEX is an integral portion of the course. Grade of C or better is required. May be repeated up to 2 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, 154, 156, 157, 210, 211, 246, and 258 or consent of program director.

Corequisite(s): NURS 212, NURS 256.

**NURS 270. The Adult Client II
5 Credits (2+9P)**

Care of adult clients experiencing chronic, life-threatening, and end-of-life health alterations with emphasis on the geriatric population using a holistic approach to wellness. Nursing process, pathophysiology, pharmacology, diet therapy, and alternative therapies are stressed throughout the course. Clinical component will provide an opportunity to apply the nursing process in both the hospital and community setting. Restricted to: Community Colleges only.

Prerequisite(s): NURS 170, NURS 172, NURS 173L, NURS 180, and NURS 185.

Corequisite(s): NURS 285.

**NURS 272. Care for the Aging Client
1 Credit**

Normal physiological changes of aging and nursing implications related to safety and wellness. Restricted to: Community Colleges only. Restricted to NURS majors.

**NURS 275. Holistic Approach to Pharmacotherapeutic Interventions II
2 Credits**

Level II. Holistic approach to the study of basic pharmacology concepts. Includes pharmacodynamic phases of drug interaction. Nursing process is discussed in relation to medication administration. Special emphasis on the role of the nurse and basic concepts related to specific drug categories. Restricted to majors. Community Colleges only.

Prerequisite: NURS 185.

Corequisites: NURS 280 and NURS 283.

NURS 280. Women's Health Issues**4 Credits (2+6P)**

Consists of lecture and associated clinical/laboratory experiences that focus on the holistic health concerns for women and the care of families expecting birth. Emphasis placed on the wellness of normal and high-risk women's health, including maternal and newborn care. The nursing process will be utilized to develop caring interventions and effective community communication through teaching healthy strategies. Restricted to: Community Colleges only.

Prerequisite(s): NURS 170 and NURS 180.

Corequisite(s): NURS 275 and NURS 283.

NURS 282 L. Practicum: Management of Client Care**1 Credit**

Organization and delivery of wellness care services for groups of clients based on the nursing process. Restricted to: Community Colleges only.

Prerequisite(s): NURS 170, NURS 172, NURS 173L, NURS 180, and NURS 185.

Corequisite(s): NURS 284L.

NURS 283. Pediatric Nursing**4 Credits (2+6P)**

Consists of lecture and associated clinical and laboratory experiences which focus on the care of children from infancy through adolescence including acute and chronic health care problems. Employs nursing process, pathophysiology, pharmacology, and diet therapy through the holistic approach to wellness. Restricted to: Community Colleges only.

Prerequisite(s): NURS 170 and NURS 180.

Corequisite(s): NURS 275, NURS 280.

NURS 284 L. Practicum: Preceptorship**3 Credits**

Clinical experience in a leadership role in specific practice areas enhancing the transition from student to practitioner utilizing the holistic approach to wellness. Restricted to: Community Colleges only.

Prerequisite(s): NURS 182.

Corequisite(s): NURS 282L.

NURS 285. Holistic Approach to Pharmacotherapeutic Intervention III**1 Credit**

Level III. Holistic approach to the study of basic pharmacology concepts. Includes pharmacodynamic phases of drug interaction. Nursing process is discussed in relation to medication administration. Special emphasis on the role of the nurse and basic concepts related to specific drug categories. Restricted to: Community Colleges only.

Prerequisite(s): NURS 185 and NURS 275.

Corequisite(s): NURS 270.

NURS 291. Pathophysiology II**1-3 Credits**

A continuation of materials presented in NURS 290, Pathophysiology I, covering the remaining body systems. Restricted to: Community Colleges only.

Prerequisite(s): BIOL 226 or 254 and NURS 290 or consent of program director.

NURS 293. Introduction to Nursing Concepts**3 Credits**

This course introduces the nursing student to the concepts of nursing practice and conceptual learning. Same as NMNEC course no.: NMNEC101. Restricted to: BSN,BSNP,BSNR,NURS majors. Restricted to Las Cruces campus only.

Prerequisite(s): Admission to Nursing Program.

Corequisite(s): NURS 294,NURS 362.

NURS 294. Principals of Nursing Practice**4 Credits**

This course introduces the nursing student to the application of concepts through clinical skills in seminar, laboratory, and/or clinical settings. Principles of communication, assessments, safety, and interventions including accurate calculation, measurement, and administration of medications will be included. Same as NMNEC course no.: NMNEC102. Restricted to: NURS majors. Restricted to Las Cruces campus only.

Prerequisite(s): Admission to the nursing program.

Corequisite(s): NURS 293,NURS 362.

OEBM-BIOMEDICAL TECHNOLOGY (OEBM)

OEBM 140. Applied Human Biology for Biomedical Technology**3 Credits**

Essential human biology, anatomy, physiology and medical terminology for biomedical equipment technicians. Focus on the vocabulary necessary for effective communication in the hospital environment as part of the health care team. Restricted to: Community Colleges only.

OEBM 141. Medical Electronics and Safety in Healthcare**3 Credits**

Introduction to the biomedical equipment technology field. Operation of common biomedical equipment to include pressure and temperature systems, infusion devices, patient monitors, and other physiologic and patient systems. Hospital safety and health regulations explained.

Restricted to Community Colleges campuses only.

Prerequisite(s): OEBM 140.

OEBM 200. Biomedical Internship**3 Credits**

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 9 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): OEBM 140 and OEBM 141.

OEBM 210. Biomedical Clinical**4 Credits (1+9P)**

Clinical experiences to include advanced biomedical equipment maintenance, inventory control, and medical facility and industry standards. Restricted to Biomedical majors.

Prerequisite(s): OEBM 200.

OEBM 211. CBET Exam Preparation**1 Credit**

An overview of the Certified Biomedical Equipment Technician exam. Topics include anatomy and physiology, electronics principles, safety issues, equipment operation, and equipment troubleshooting.

Prerequisite(s)/Corequisite(s): OEBM 241 AND OEBM 240. Restricted to Community Colleges campuses only.

OEBM 240. Medical Imaging Systems**3 Credits**

The fundamentals of diagnostic radiography equipment will be explored. Principles of an x-ray system will be explained including the x-ray generation, image formation and film processing. Focus will be on both safety and quality. Restricted to Community Colleges campuses only.

Prerequisite(s): OEBM 140.

OEBM 241. Advanced Medical Electronics**3 Credits (3+1P)**

Advanced study in biomedical equipment to include cardiovascular, pulmonary, telemetry and other critical life support systems. Restricted to Community Colleges campuses only.

Prerequisite(s): OEBM 141.

OECS-COMPUTER TECHNOLOGY (OECS)

OECS 101. Computer Basics**1 Credit**

Hands-on instruction to introduce computer use and commonly used software. Graded S/U.

OECS 105. Introduction to Information Technology**3 Credits**

Introduction and application of basic information technology skills using personal computers including operating systems, common office application software, and the impact of technology on the economy and society. Restricted to: Community Colleges only.

OECS 110. Introduction to Power Point**1 Credit**

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.

Prerequisites: BCIS 110, C S 110, or OECS 105.

OECS 125. Operating Systems**1-3 Credits**

Installation, configuration and optimization of current operating systems. Restricted to: Community Colleges only.

OECS 128. Operating Systems Linux/Unix**3 Credits**

Installation, configuration, and use of Linux/Unix operating system software and utilities including hardware management, file management, use of command line, and scripting. Restricted to: Community Colleges only.

OECS 140. Introduction to Game Production Industry**3 Credits**

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.

Prerequisites: Either BCIS 110, C S 110, or OECS 105.

OECS 141. Introduction to Interactive Game Programming**3 Credits**

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 Only.

Prerequisites: C S 110, BCIS 110, or OECS 105.

OECS 145. Mobile Application Development**1-3 Credits (1-3)**

An in-depth review of concepts, design strategies, tools and APIs needed to create, test and deploy applications for mobile devices. Topics include: design of mobile user interfaces, application life-cycle, multi-threading, inter-process communication, data persistency, background services, geo-location/mapping, graphics/animation, performance, and security. Restricted to: Community Colleges only.

OECS 150. Introduction to Programming Using Visual Basic**4 Credits**

Introduction to algorithmic problem-solving concepts, structured programming design-oriented application programming interface development. Solutions to problems are implemented using the Visual Basic programming language in the Windows environment, with connection to Access databases as applicable. Restricted to: Community Colleges only.

Prerequisite(s): CS 110, OECS 220, and MATH 120.

OECS 155. Special Topics - Introductory Computer Technology**0.5-4 Credits (.5-4)**

Topics to be announced in the Schedule of Classes. May be repeated up to 8 credits.

OECS 185. PC Maintenance and Repair I**1-3 Credits**

Introduction to most common types of PC configurations, installations, and failures. This course will explore troubleshooting skills for maintaining and repairing common hardware and software related problems. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

OECS 192. C++ Programming I**3 Credits**

Development of skills in programming using the C++ programming language. Restricted to: Community Colleges only.

OECS 195. Java Programming I**1-3 Credits**

Developing of skills in programming using the Java programming language. Restricted to: Community Colleges only.

OECS 200. Accounting on Microcomputers**3 Credits**

Fundamental accounting principles using popular microcomputer software to include G/L, A/R, A/P, purchase order, billing, inventory, and forecasting modules.

Prerequisite: ACCT 252 or BOT 121.

OECS 203. UNIX Operating System**1-3 Credits**

Introduction to the UNIX operating system using Telnet to access a remote UNIX system. Basic UNIX commands and file system concepts.

Prerequisite: C S 110, B CS 110G or OECS 105.

OECS 204. Linux Operating System**1-3 Credits**

Install and configure the Linux operating system on X86 systems. Covers issues involved in maintaining operating system, networking, creating and managing users, and installing and updating software. General procedures for working with operating system includes maintaining disk space, preserving system security, and other related topics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

OECS 205. Advanced Operating Systems: Administration
3 Credits

Examines operating systems designed for PC, minicomputers and mainframes. Covers maintaining operating systems, creating and managing users, and installing and updating software. General procedures for working with operating systems will include maintaining disk space, preserving system security, providing mail services, among other topics. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 128.

OECS 207. Windows
0.5-3 Credits

Installation, configuration, and maintenance of Windows. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): OECS 105 or BCS 110G or CS 110G or consent of instructor.

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 for a maximum of 6 credits.

Prerequisite: C S 110G, BCIS 110 or OECS 105.

OECS 209. Computer Graphic Arts
1-3 Credits

Basic graphics composition using computer programs to include editing and manipulating graphic images, clip-art, and printing of pictures. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes.

Prerequisite: OECS 105, C S 110, or OECS 101.

OECS 211. Word Processing Applications
1-3 Credits

Basic word processing to include composing, editing, formatting, and printing of documents. May be repeated under different subtitles listed in the Schedule of Classes for a maximum of 6 credits.

Prerequisites: C S 110, BCIS 110 or OECS 105.

OECS 213. Image Processing
1 Credit

Introduction to digital imaging acquisition and editing. Use of digital cameras and computer graphic software for business and personal use. Graded S/U.

Prerequisites: C S 110, BCIS 110 or OECS 105.

OECS 214. Creating a Web Page
1 Credit

Introduction to creating Web pages for business and personal use. Graded S/U.

Prerequisites: C S 110, BCIS 110 or OECS 105.

OECS 215. Spreadsheet Applications
1-3 Credits

Use of spreadsheets to include graphics and business applications. May be repeated for a maximum of 6 credits.

Prerequisites: C S 110, BCIS 110 or OECS 105.

OECS 216. Programming for the Web
3 Credits

Designing web-based applications using appropriate programming language(s) such as, but not limited to HTML, PHP, MySQL, SQL, Java, Perl, C or C++. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): One semester of any programming course.

OECS 220. Database Application and Design
1-3 Credits

Creating, sorting, and searching of single and multifile databases to include report generation and programming database commands. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes. Restricted to: Community Colleges only.

Prerequisite(s): C S 110 OR BCIS 110 OR E T 120 OR E T 122 OR OECS 105.

OECS 221. Internship I
1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

OECS 222. Internship II
1-3 Credits

Continuation of OECS 221. Each credit requires specified number of hours of on-the-job work experience. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 221 and consent of instructor.

OECS 227. Computer Applications for Technicians
3 Credits

Computer applications for service technicians in various disciplines. Hardware and software applications explored. Includes operating systems, high level programming, and networking hardware and software.

OECS 230. Data Communications and Networks I
1-3 Credits

Definition of data communication; survey of hardware applications and teleprocessor software; examination and design of networks. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 185.

OECS 231. Data Communications and Networks II
1-3 Credits

Installation and application of popular microcomputer network software. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 230.

OECS 232. Implementing and Supporting Networks I
3 Credits

Knowledge and skills relating to post-installation and day-to-day administration tasks in a single-domain or multiple-domain network.

Prerequisite: OECS 230 or OECS 261.

OECS 234. Linux Server**3 Credits**

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 6 credits.

Prerequisite(s): OECS 128, OECS 203 or OECS 204.

OECS 235. Structured Query Language (SQL)**1-3 Credits**

Installation, configuration, administration, and troubleshooting of SQL client/server database management system.

Prerequisite: OECS 185, OECS 207, OECS 230 or OECS 261.

OECS 237. Windows Server**3 Credits**

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. Restricted to: Community Colleges only.

Prerequisite(s): OECS 207.

OECS 245. Game Programming I**3 Credits**

Development of programming skills for games and animation using current programming languages and tools. May be repeated for a maximum of 6 credits.

Prerequisite: consent of instructor.

OECS 250. Systems Analysis and Design I**3 Credits**

Analysis, configuration, design and testing of organizations' work flow as it relates to hardware, software, data, procedures and personnel. Systems Life Cycle approach matching end users' needs to feasible financial, technical and operational solutions. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 220.

OECS 252. Project Management**3 Credits**

Utilization of project management software to establish, control and coordinate timelines, budgets, and work teams. Introduction to methods and principles of oriented project management emphasizing team-based performance.

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 of 3 credits.

Prerequisite: C S 110, BCIS 110 or OECS 105.

OECS 261. Introduction to Networks**4 Credits**

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.

Prerequisite(s): C S 110G, BCIS 110G, OECS 105, or E T 120.

OECS 262. Essentials of Routing and Switching**4 Credits**

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. Restricted to: Community Colleges only.

Prerequisite(s): OECS 261.

OECS 263. Network Fundamentals**4 Credits**

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. Restricted to: Community Colleges only.

Prerequisite(s): OECS 262.

OECS 264. Network Routing Protocols**4 Credits**

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. Restricted to: Community Colleges only.

Prerequisite(s): OECS 263.

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 272. Introduction to Bioinformatics Research**3 Credits**

Bioinformatics is the intersection of computer science and molecular biology. It is the science of informatics as applied to biological research. This course develops the understanding of genomics research techniques and how large amounts of complex data is managed. This research based class is designed to introduce skills necessary to enter this high demanding field of study. Restricted to: Community Colleges only.

Prerequisite(s): BCIS 110, or C S 110, or OECS 105.

OECS 275. PC Maintenance and Repair II**1-3 Credits**

Continuation of OECS 185. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 185.

OECS 280. Desktop Publishing I**3 Credits**

Design and production of publication materials to fill the needs of business communities, using a microcomputer. May be repeated for a maximum of 6 credits. Same as BOT 280.

Prerequisites: either BCIS 100G, C S 110, OECS 105.

OECS 285. Fundamentals of Multimedia Applications**1-3 Credits**

Fundamentals of designing video, audio and web-based multimedia presentations for business and technical needs. Restricted to: Community Colleges only.

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. DAS Occupational Education, Dental Assisting. Restricted to: Community Colleges only.

OEEM- PARAMEDIC (OEEM)

OEEM 101. CPR for the Health Care Professional**1 Credit**

Students learn identification and response to airway and circulation emergencies, including use of a SAED and accessing the EMS system. This course is taught using the American Heart Association guidelines for course completion. Required: grade of C or better.

OEEM 103. Heartsaver First Aid/CPR**1 Credit**

Students learn how to identify and respond to airway, circulation and basic first aid emergencies, to include using a SAED and accessing the EMS system. This course is intended for students who are not Allied Health Majors and utilizes the American Heart Association guidelines for course completion. Restricted to: Community Colleges only.

OEEM 106. Advanced First Aid**2 Credits**

Theory and advanced first aid skills taught emphasizing recognition and providing care for injury or sudden illness until professional medical help arrives. Course meets and/or exceeds the Red Cross or National Safety Council standards.

Corequisite: OEEM 101 or consent of instructor.

OEEM 115. First Responder Prehospital Professional**3 Credits (2+3P)**

Provides training in prehospital medical and traumatic emergencies. Requires a C or better to pass. Restricted to majors.

Prerequisite: consent of instructor.

Corequisite: OEEM 101.

OEEM 116. Emergency Medical Technician Bridge**5 Credits (3+6P)**

Enhanced skill instruction and didactic integration designed to meet the requirements for an EMT-Basic certificate. Requires a "C" or better to pass. May be repeated up to 5 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 115, OEEM 101.

Corequisite(s): OEEM 153, OEEM 121.

OEEM 120. Emergency Medical Technician Basic**6 Credits**

EMT-Basic skills to include care of soft tissue and muscular/skeletal injuries, circulatory, nervous, general medical and respiratory emergencies. Requires a "C" or better to pass. May be repeated up to 6 credits. Consent of Instructor required.

Corequisite(s): OEEM 101, OEEM 120 L, OEEM 121.

Prerequisite(s)/Corequisite(s): OEEM 153. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

OEEM 120 L. Emergency Medical Technician Basic Lab**2 Credits**

EMT-Basic skills development with emphasis on assessment, skills competency and team-work in patient care in the prehospital setting. Requires a C or better to pass.

Corequisites: OEEM 101 or OEEM 120, and OEEM 121, or consent of instructor.

OEEM 121. Emergency Medical Technician Basic Field/Clinical**1 Credit**

Covers the patient care experience provided through assigned shifts in the hospital and/or ambulance setting. Requires a "C" or better to pass. May be repeated up to 1 credits. Consent of Instructor required.

Corequisite(s): OEEM 116 or OEEM 120, OEEM 120 L.

Prerequisite(s)/Corequisite(s): OEEM 101. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

OEEM 122. Emergency Medical Technician Basic Advanced Field/**Internship****2 Credits**

Expanded patient care experience provided through practical scenarios, assigned shifts in the hospital and/or ambulance setting. Requires a C or better to pass.

Prerequisite: current EMT-basic license and consent of instructor.

OEEM 150. Emergency Medical Technician Intermediate**5 Credits**

Theory of the roles, responsibilities and scope of practice of the EMT-Intermediate. Assessment and management of respiratory, cardiac, trauma, environmental, behavior, reproduction, and childhood emergencies. Requires a C or better to pass.

Prerequisites: current EMT-basic license, pretest and consent of instructor.

Corequisites: OEEM 150L and OEEM 151.

OEEM 150 L. Emergency Medical Technician Intermediate Lab**2 Credits**

EMT-Intermediate skills development with an emphasis on assessment, skills competency, and team work in patient care in the prehospital setting. Requires a C or better to pass. Restricted to: Community Colleges only.

Corequisite(s): OEEM 150 and OEEM 151.

**OEEM 151. Emergency Medical Technician Intermediate Field/Clinical
2 Credits**

Patient care experience provided through assigned shifts in the hospital and/or ambulance setting. Requires a C or better to pass.

Prerequisite: consent of instructor.

Corequisites: OEEM 150 and OEEM 150L.

**OEEM 153. Introduction to Anatomy and Physiology for the EMS Provider
3 Credits**

To properly assess and manage a patient, a prehospital provider must have a solid foundation in human anatomy and physiology. This course provides a systematic approach to building this foundation. Grade of "C" or better is required to pass the course. Consent of Instructor required. Restricted to Community Colleges campuses only.

OEEM 155. Special Topics**1-6 Credits**

Specific topics to be listed in Schedule of Classes. May be repeated for a maximum of 10 credits.

**OEEM 158. Emergency Medical Technician-Combination Refresher
2 Credits**

A comprehensive review of prehospital medicine for the prehospital care provider from the first responder level through the EMT Intermediate.

New material relevant to recertification of the New Mexico First Responder, EMT Basic and EMT Intermediate licensure included. Graded S/U.

**OEEM 177. Emergency Medical Services Instructor
4 Credits**

Theory of student learning, methodology, instructional components, evaluation, and course coordination for the EMS profession. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

**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 I 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 II 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. Restricted to majors. Requires a C or better to pass.

Prerequisites: OEEM 202 and consent of instructor.

**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 ride-along with ambulance and dispatch observation. Requires a C or better to pass. Restricted to majors. Consent of instructor required. Restricted to: Community Colleges only. Restricted to OEEM majors.

Prerequisite(s): OEEM 120.

**OEEM 207. Introduction to Pharmacology
3 Credits (2+3P)**

Drug actions, factors modifying drugs and dosages: characteristics of drug effects, and drug history and dosages. Prehospital protocol, transport, and common patient prescription medications. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only. Restricted to OEEM majors.

Prerequisite(s): OEEM 120.

**OEEM 210. Cardiac Rhythm Interpretation
3 Credits (2+3P)**

Cardiac conduction system: electrophysiology, electrocardiogram, monitor, atrial, sinus, ventricular and junctional dysrhythmias, multiple lead EKG and 12 lead EKG interpretation. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 201, OEEM 206, OEEM 207.

**OEEM 212. EMT-Paramedic Cardiovascular Emergencies
3 Credits (2+3P)**

Review anatomy, physiology, and pathophysiology of cardiovascular system. Assessment and management of cardiovascular emergencies in the prehospital setting. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 210.

**OEEM 213. EMT-Paramedic: Medical Emergencies I
3 Credits (2+3P)**

Study of the disease process; assessment and management of neurological, endocrine, gastrointestinal, renal emergencies and infectious disease. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 212.

**OEEM 214. EMT-Paramedic: Medical Environmental Emergencies II
3 Credits (2+3P)**

Study of disease process, assessment, and management of poisoning, drug and alcohol abuse, environmental, behavioral and geriatric emergencies. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 213.

**OEEM 216. EMT-Paramedic: Reproductive and Childhood Emergencies
3 Credits (2+3P)**

Covers anatomy, physiology, disease processes, assessment and management of male and female reproductive system emergencies, childhood emergencies and growth and development. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only.

Prerequisite(s): OEEM 214 and consent of instructor.

OEEM 218. Pediatric Advance Life Support for the Healthcare Professional**1 Credit**

Identify and respond to life threatening pediatric emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEM 101.

OEEM 219. Advance Cardiac Life Support for the Healthcare Provider**1 Credit**

Identify and respond to life threatening cardiac emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEM 101.

OEEM 230. EMT-Paramedic Clinical Experience I**3 Credits**

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

OEEM 231. EMT-Paramedic Clinical Experience II**3 Credits**

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Requires a "C" or better to pass. May be repeated up to 3 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): OEEM 230. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

OEEM 240. EMT-Paramedic Field Experience I**3 Credits**

Advanced prehospital skills and knowledge. Successful completion of at least the minimum required hours and course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

OEEM 241. EMT-Paramedic Field Experience II**3 Credits**

Continued focus on advanced prehospital skills and knowledge, with increasing responsibility for patient care. Successful completion includes meeting at least the minimum required hours and course objectives. Pre/ Requires a C- or better to pass.

Corequisites: OEEM 240 Restricted to majors.

OEEM 242. EMT-Paramedic Field Internship II**3 Credits**

Emphasis on total patient care responsibility and team leadership skills. Successful completion includes meeting the minimum hours required and course objectives. Pre/ Restricted to majors. Requires a C- or better to pass.

Corequisites: OEEM 241.

OEEM 243. EMT-Paramedic Preparation for Practice**2 Credits**

Comprehensive final program testing to prepare for licensing examination. Requires a "C" or better to pass. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 242.

OEEM 247. Emergency Medical Technician - Paramedic Refresher**2 Credits (1+3P)**

A comprehensive review of prehospital emergency medicine for the EMT Paramedic. New material relevant to recertification of the New Mexico and Nationally Registered Paramedic licensure. Graded S/U.

OEEM 253. Critical Care Emergency Medical Transport Program**6 Credits (5+6P)**

This course will provide further education to Paramedics, Registered Nurses and Registered Respiratory Therapists who wish to function as part of a critical care transport team. Consent of instructor required. Restricted to: Community Colleges only.

Prerequisite(s): Licensed Paramedic, Registered Nurse or Registered Respiratory Therapist with one or more years experience.

OEET- ELECTRICAL TRADES (OEET)

OEET 110. Basic Electricity and Electronics**4 Credits (3+3P)**

An introduction to electricity theory and practice, including electron theory, Ohm's law, construction of electrical circuits, direct and alternating currents, magnetism, transformers, and practical applications. Same as HVAC 102, ELT 105, OEPB 102.

OEET 112. Math Study Skills for Electrical**1 Credit**

Covers specific math study skills and critical thinking processes to reinforce practical uses of math relating to electrical apprenticeship applications. The student will be introduced to electrical mathematical formulas during the problem-solving steps required for electrical circuit design and analysis. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OEET 151 OR OEET 152. Restricted to: Community Colleges only.

OEET 115. Wiring Methods and Materials**5 Credits (2+6P)**

Application of electrical code in selection of wiring materials; proper methods of installation.

Corequisite: OEET 110 or consent of instructor.

OEET 120. Basic Motor Controls**5 Credits (2+6P)**

Developing schematics and wiring simple manual and electromechanical control devices.

Prerequisite: OEET 110 or consent of instructor.

OEET 130. Introduction to Electrical Power Systems**2 Credits**

An overview of electrical power systems, equipment, safety practices, first aid and CPR. Restricted to majors.

Prerequisite: acceptance into the electrical lineworker program.

Corequisite: OEET 110 and OEET 131.

OEET 131. Electrical Lineworker Lab I**6 Credits**

Climbing and work on utility poles using ropes and rigging, pole setting and an introduction to transmission and distribution line construction. Maintenance and troubleshooting to include the use of hot sticks. Restricted to majors.

Prerequisite: acceptance into the electrical lineworker program.

Corequisite: OEET 110 and OEET 130.

OEET 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. Restricted to majors.

Prerequisites: acceptance into the electrical lineworker program and OEET 130.

Corequisite: OEET 141.

OEET 141. Electrical Lineworker II**6 Credits**

Practice in the installation of electrical power lines including transformers, voltage regulators, and surge arrestors. Also advanced hot sticking procedures, troubleshooting, underground systems procedures, and pole-top rescue. Restricted to: Community Colleges only.

Prerequisites: Acceptance into the lineworker program and OEET 131.

Corequisite: OEET 140.

OEET 151. Electrical Apprenticeship I**6 Credits**

Apprenticeship responsibilities and benefits as well as first aid and CPR will be covered. Hand tools, electrical theory, and the regulations imposed by national codes and OSHA. Students will apply theory taught in their jobs.

Prerequisite: consent of instructor.

OEET 152. Electrical Apprenticeship II**6 Credits**

OHM s law circuit sizing and service panel sizing will be covered in detail. Other topics include low voltage systems, heating and air conditioning circuits, alarm systems and smoke detectors.

Prerequisites: OEET 151 and consent of instructor.

OEET 153. Electrical Apprenticeship III**6 Credits**

Various electrical measuring devices will be covered in detail. Inductance, transformers, capacitance, and simple motors will be studied.

Prerequisites: OEET 152 and consent of instructor.

OEET 154. Electrical Apprenticeship IV**6 Credits**

Theory and application of three-phase transformers and autotransformers. Electrical distribution using switchboards, panelboards, and circuit breakers.

Prerequisites: OEET 153 and consent of instructor.

OEET 205. National Electric Code**3 Credits**

Interpretation and application of the National Electric Code.

Prerequisite: OEET 110.

OEET 210. Intermediate Electricity**5 Credits (3+4P)**

Introduction to inductance, capacitance, reactances, and power factor correction.

Prerequisite: OEET 110.

OEET 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.

OEET 251. Electrical Apprenticeship V**6 Credits**

Commercial/industrial applications for electricians. Blueprint interpretation, commercial construction types and processes, wiring methods, wiring materials, and motor controls.

Prerequisites: OEET 154 and consent of instructor.

OEET 252. Electrical Apprenticeship VI**6 Credits**

In-depth commercial applications to include commercial/industrial service calculations, mobile home parks, multi-family dwellings, and commercial fire/security systems.

Prerequisites: OEET 251 and consent of instructor.

OEET 253. Electrical Apprenticeship VII**6 Credits**

Control devices in commercial/industrial applications; emphasis on logic in-line diagrams, time delay starters, reversing starters, and manual/magnetic solenoids.

Prerequisites: OEET 252 and consent of instructor.

OEET 254. Electrical Apprenticeship VIII**6 Credits**

Miscellaneous topics for the journeyman 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 integral 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 existing data to a geodatabase and edit data stored in a geodatabase. Methods for georeferencing scanned maps, aerial photos and computer aided drafting files will be explored and discussed. May be repeated up to 4 credits.

Prerequisite(s): OEGS 181.

OEGS 231. Introduction to GIS Spatial Analysis**4 Credits (3+3P)**

This course aims to provide students with the knowledge and skills necessary to investigate the spatial patterns which result from social and physical processes operating on or near the Earth's surface. Essential theoretical concepts of quantitative geography are examined, including measures of geographical distribution (including point and areal pattern analysis) and spatial autocorrelation, interpolation and network connectivity. Students will also be introduced to ArcView (online GIS) and the open source programs such as QGIS and GRASS. May be repeated up to 4 credits.

Prerequisite(s): OEGS 181.

OEGS 291. Special Topics in Geographic Information Systems**1-3 Credits (1-3)**

Topics to be announced in the Schedule of Classes. May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

OEPS-PUBLIC SAFETY (OEPS)

OEPS 150. Correctional Officer Training I**4 Credits (2+4P)**

Introduction to corrections, departmental policies and procedures, report writing, officer safety, and physical conditioning. Restricted to majors.

Prerequisite: consent of instructor.

OEPS 180. Correctional Officer Training II**4 Credits (2+4P)**

Criminal justice system, communications, ethics, correctional law and responsibilities, search procedures, hostage situations, institutional gangs. Restricted to majors OEPS 195.

Prerequisite: consent of instructor.

OEPS 250. Correctional Officer Training III**4 Credits (2+4P)**

Use of force, firearms, baton, chemical agents, standard first aid, and CPR. Restricted to majors.

Prerequisite: consent of instructor.

OEPS 280. Correctional Officer Training IV**4 Credits (2+4P)**

Stress management, supervision of special needs offender, defensive driving, preparation for certifying exams. Restricted to majors.

Prerequisite: consent of instructor.

OEPT-PHOTOGRAPHIC TRADES (OEPT)

OEPT 100. Photographics I**3 Credits (2+2P)**

Covers basic black and white photographic techniques. Emphasizes black and white film and paper handling, film processing, proof printing, projection print, and print finishing. Adjustable camera required. Same as ART 270.

OEPT 120. Photo Finishing and Presentation**2 Credits (1+2P)**

Use of visual language for personal expression. Freelance photography; care of original photos; preparation of portfolios, photographic markets, exhibitions and judging, galleries and copyrights. Students will prepare a photographic portfolio. Restricted to: Community Colleges only.

Prerequisite(s): CMT 115.

OEPT 155. Portraiture**3 Credits (2+2P)**

Hands-on study of professional photography involving people. Studio and environmental portraits, fashion/glamour, and wedding photography. Studio and exterior lighting techniques, selecting lighting equipment, film and supplies. Restricted to: Community Colleges only.

Prerequisite(s): ART 270 or CMT 115.

OETS-TECHNICAL STUDIES (OETS)

OETS 100. Industrial/Construction Safety**2 Credits**

Covers safety issues such as PPE, BBP, ladder safety,, RTK, HazCom, MSDS and information about safety organizations such as OSHA, NIOSH, NFPA, National Safety Council. Community Colleges only. Restricted to Dona Ana and Carlsbad campuses.

OETS 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. Pre/ Restricted to: Community Colleges only.

Corequisite(s): OETS 118 or MATH 120.

OETS 102. Career Readiness Certification Preparation**1 Credit**

This course is designed to prepare students to successfully obtain Career Readiness Certifications in all areas and at the appropriate levels for their program of study. Graded: S/U. May be repeated up to 3 credits. S/U Grading (S/U, Audit).

OETS 103. Technical Career Skills**4 Credits**

This course will be project-based and will encompass writing, presentation, math, reading, and critical thinking skills applied in a technical environment. Restricted to: Community Colleges only.

OETS 104. Basic Mathematics for Technicians**4 Credits**

Fundamental mathematical concepts and computations including measurement, ratio and proportions, and pre-algebra as it relates to technical programs.

Prerequisite: appropriate placement test score.

OETS 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. Restricted to: Community Colleges only.

OETS 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. Restricted to: Community Colleges only.

Prerequisite(s): OETS 105.

OETS 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. Restricted to: Community Colleges only.

Prerequisite(s): OETS 101.

OETS 117. Writing for Technicians**3 Credits**

Instruction in the skills for developing clear, written descriptions of processes and procedures used by technicians in various fields. Emphasis on correct grammar, logical organization, and receiving audience. Focuses on clarity, structure, and concise writing methods. Does not substitute for ENGL 111G. Restricted to: Community Colleges only.

OETS 118. Mathematics for Technicians**3 Credits (2+2P)**

Analysis and problem solving of technical problems using measuring instruments and techniques of arithmetic, algebra, geometry, and trigonometry. Restricted to: Community Colleges only.

Prerequisite(s): OETS 104 or CDDM 103N or appropriate placement test score.

OETS 120. Business Fundamentals**3 Credits**

Instruction in the skills for basic business concepts used by technicians in various fields. Emphasis placed on basic business concepts; business ownership including marketing, management, accounting, and customer services; interpersonal communication; and basic computer concepts including word processing, spreadsheets, and presentation software. Restricted to Community Colleges campuses only.

OETS 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. Restricted to: Community Colleges only.

Prerequisite(s): OETS 106.

OETS 255. Special Topics Technical Studies**1-6 Credits**

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

Prerequisite(s): Consent of instructor.

P E-PHYSICAL EDUCATION (P E)

P E 102. Beginning Weight Training**1 Credit**

Introduction to basic principles and techniques of weight training.

P E 103. Beginning Weight Training for Women**1 Credit**

Introduction to basic principles and techniques of weight training as related to women.

P E 104. Military Physical Fitness**1 Credit**

Directed physical fitness activities designed to develop and maintain muscular strength/endurance, cardiopulmonary efficiency, flexibility, and coordination required for leadership roles after graduation.

P E 109. Pilates**1 Credit**

Designed exercise program involves the entire body while focusing on strengthening the core muscles of the torso. Exercises promote coordination, balance, and strength.

P E 110. Sports Conditioning**1 Credit**

Sport specific conditioning using aerobic and resistive overload training. May be repeated for a maximum of 4 credits.

Prerequisite: consent of instructor.

P E 112. Beginning Volleyball for Men**1 Credit****P E 113. Beginning Volleyball for Women****1 Credit****P E 114. Basketball for Women****1 Credit****P E 115. Basketball for Men****1 Credit****P E 117. Beginning Soccer****1 Credit**

Introduction to the basic techniques and skills of soccer.

P E 127. Cardio-Kickboxing**1 Credit**

Activities that mimic punches, blocks, and kicks which have been modified to serve the purpose of providing a cardiovascular workout.

P E 128. Aerobic Dance**1 Credit**

Designed to increase knowledge of the human body's responses to exercise, enhance the level of muscular development, and cardiovascular endurance with the use of music.

P E 129. Step Aerobics**1 Credit**

Designed to increase knowledge of the human body's responses to exercise, enhance the level of muscular development, and cardiovascular endurance with the use of music and steps.

P E 130. Beginning Swimming**1 Credit**

P E 131. Aqua Aerobics**1 Credit**

Designed to increase knowledge of the human body's responses to exercise, enhance the level of muscular development, and cardiovascular endurance through exercise in water.

P E 132. Intermediate Swimming**1 Credit**

Development of fitness through participation in aquatics activities.

Prerequisite(s): Ability to swim 200 yards.

P E 134. Lifeguard Training**2 Credits**

Skills training for a nonsurf lifeguard. Course will include Standard First Aid and CPR certification.

Prerequisites: swim 500 yards, dive to 9-foot depth and retrieve a 10-pound brick, surface dive to 5 feet then swim under water 15 yards, tread water one minute.

P E 147. Beginning Tennis**1 Credit****P E 148. Beginning Racquetball****1 Credit****P E 150. Beginning Golf****1 Credit****P E 154. Personal Defense****1 Credit**

Physical conditioning and defense skills for men and women.

P E 159. Introduction to Brazilian Jiu-Jitsu**1 Credit**

Brazilian Jiu-Jitsu is primarily a ground fighting art. This course will place heavy emphasis on positional strategy and focus on the sportive aspect of the sport. A Judo/Jiu-Jitsu Gi (uniform) is required.

P E 166. Futsal (Five-A-Side Soccer)**1 Credit**

Futsal, official form of indoor soccer, approved by FIFA.

P E 173. Running Fitness**1 Credit**

Basic fitness knowledge techniques and training methods of fitness running are practiced and refined.

P E 199. Yoga**1 Credit**

A holistic approach to exercise benefiting the body, mind, and spirit.

Practices focus on alignment, strength, breath relaxation, and restoration.

P E 202. Intermediate Weight Training**1 Credit**

Intermediate training and skill techniques in weight lifting.

Prerequisites: P E 102 or consent of department head.

P E 204. Cross Training**1 Credit**

Intensive training program that incorporates both aerobic and resistive overload approaches to training.

P E 205. Walking Fitness**1 Credit**

Basic fitness knowledge techniques and training methods of fitness walking are practiced and refined.

P E 206. Beginning Physical Fitness**1 Credit**

Progressive exposure to steady state exercise tailored to individual needs for the purpose of determining, improving, and maintaining physical fitness.

P E 208. Marathon Preparation**1 Credit**

Gradual training progression for novice and experienced runners to develop and/or refine a training program enabling completion of or better personal record for the marathon. Discussions on equipment, nutrition, injury prevention and treatment.

Prerequisite: presently running three miles, three to four times per week.

P E 209. Intermediate Pilates**1 Credit**

Intermediate training and skill techniques in Pilates.

Prerequisite(s): PE 109 or consent of instructor.

P E 212. Intermediate Volleyball-Men**1 Credit**

Prerequisite: P E 112 or consent of department head.

P E 213. Intermediate Volleyball-Women**1 Credit**

Prerequisite: P E 113 or consent of department head.

P E 215. Intermediate Walking**1 Credit**

A continuation of basic fitness knowledge techniques and training methods of fitness walking are practiced and refined.

Prerequisite: P E 205 or consent of department head.

P E 216. Advanced Walking**1 Credit**

Advanced walking fitness and training techniques are presented, practiced, and refined.

P E 228. Intermediate Aerobic Dance**1 Credit**

Aerobic dance at a high intensity level with a more in-depth study of the body's physiological response to exercise.

Prerequisite: P E 128 or consent of department head.

P E 229. Intermediate Step Aerobics**1 Credit**

Step aerobic dance at a high intensity level with a more in-depth study of the body's physiological response to exercise.

Prerequisite: PE 129 or consent of department head.

P E 230. Advanced Swimming**1 Credit**

Perfection of basic strokes, survival swimming, and physical fitness.

Prerequisite(s): P E 130 or ability to swim 100 yards.

P E 247. Intermediate Tennis**1 Credit**

Prerequisite: P E 147 or consent of department head.

P E 248. Intermediate Racquetball**1 Credit**

Advanced skills and strategies in racquetball.

Prerequisite: P E 148 or consent of instructor.

P E 250. Intermediate Golf**1 Credit**

Prerequisite: P E 150 or consent of department head.

P E 263. Outdoor Recreation Skills**1 Credit**

Selected outdoor activities. Appropriate subtitles, such as hiking and backpacking, camping and survival, hunting and gun safety, casting and angling skills. May be repeated for maximum of 4 credits.

P E 264. Intermediate Cycling**1 Credit**

Introduction to competitive cycling. Content includes techniques in training, riding, racing, and racing tactics.

P E 270. Special Topics**1-3 Credits**

Specific subjects to be announced in the Schedule of Classes. Each offering will carry appropriate subtitle. May be repeated for a maximum of 4 credits.

P E 276. Intermediate Aqua Aerobics**1 Credit**

A continuation of basic fitness to increase knowledge of the human body's responses to exercise, enhance the level of muscular development and cardiovascular endurance through exercise in water.

P E 299. Intermediate Yoga**1 Credit**

Intermediate training and skill techniques in Yoga.

Prerequisite(s): PE 199 or consent of instructor.

PE-P-PHYSICAL EDUCATION (PE P)

PE P 185. Introduction and Foundations**3 Credits**

Historical and cultural foundations and vocational, scientific, and educational data on careers in health education, physical education, and recreation. Restricted to: Main campus only.

PE P 208. Fitness for Health and Sport**3 Credits**

A study of the fitness needs for health enhancement and sport participation. Restricted to: P E, SP M, KIN, S ED majors.

PE P 210. Theory and Technique of Aquatics**2 Credits**

Introduction to fundamental aquatics knowledge and skills.

Prerequisite(s): Ability to swim 100 yards.

PE P 296. Theory of Coaching I**3 Credits**

Focus on areas of academic theory associated with coaching athletics. Orientation: theoretical and practical application.

PHIL-PHILOSOPHY (PHIL)

PHIL 100G. Philosophy, Law and Ethics**3 Credits**

An introduction to practical problems in moral, social, political, and legal philosophy. Topics to be discussed may include ecology, animal rights, pornography, hate speech on campus, same-sex marriage, justice, abortion, terrorism, treatment of illegal immigrants, and New Mexican Aboriginal Peoples' land claims.

PHIL 101G. The Art of Wondering**3 Credits**

Introduction to some of the main problems of philosophy, with an emphasis on critical thinking. Philosophy conceived as an aid to living in this world with oneself and with others.

PHIL 124G. Philosophy of Music**3 Credits**

This is an introductory course in the philosophy of music. This course will survey three questions: What is music? Why is music important? How can we distinguish good music from bad music? We will draw examples from a wide variety of musical genres, from classical music, jazz and blues to punk and rap. Students will be encouraged to apply philosophical theorizing to think about their preferred musical form.

PHIL 136G. The Quest for God**3 Credits**

An effort to understand the religious life; a consideration of some of the traditional approaches to God and what it means to be religious.

PHIL 201G. Introduction to Philosophy**3 Credits**

Selected problems within the main branches of philosophy: metaphysics, theory of knowledge, ethics. Practice given in critical thinking.

PHIL 211G. Informal Logic**3 Credits**

Logical analysis of ordinary language, construction of definitions, argumentation, analysis of fallacious modes of thought and basic rhetorical considerations.

PHIL 223G. Ethics**3 Credits**

The philosophical explication of morality. Significant ethical systems developed in the history of Western thought.

PHLS-PUBLIC HEALTH SCIENCES (PHLS)

PHLS 100. Introduction to Health Science**1 Credit**

An overview of professional career opportunities in the realm of health science as well as the functional roles of practice, education, administration, and research. Some field trips will be required.

PHLS 150G. Personal Health and Wellness**3 Credits**

A holistic and multi-disciplinary approach towards promoting positive lifestyles. Special emphasis is placed on major problems that have greatest significance to personal and community health. Topics to include nutrition, stress management, fitness, aging, sexuality, drug education, and others.

PHLS 275. Foundations of Health Education**3 Credits**

Role and responsibility of the health educator with emphasis on small group dynamics, oral and written communication skills, building community coalitions and an introduction to grant writing. Taught with HL S 375. Cannot receive credit for both HL S 275 and HL S 375.

Prerequisite(s): Either HL S 100 or HL S 150G, or consent of instructor.

PHLS 295. Essentials of Public Health**3 Credits**

The course will focus on principles and major areas of public health, including ecological and total personal concept of health care system, epidemiological approaches to disease prevention and control. Consent of Instructor required.

PHYS-PHYSICS (PHYS)

PHYS 110G. The Great Ideas of Physics

4 Credits (3+3P)

Conceptual, quantitative, and laboratory treatments of the great ideas and discoveries that have influenced lives and changed perceptions of nature, from Johannes Kepler's laws of planetary motion and Isaac Newton's and Albert Einstein's laws of motion and gravity to the modern concepts of the quantal structure of nature and the big bang universe.

PHYS 120G. Introduction to Acoustics

4 Credits (3+2P)

Lecture, demonstration, and laboratory treatment of the general properties of waves, the production, transmission, and reception of sound waves, including musical and vocal sounds, and characteristics of the human ear and several kinds of sources.

PHYS 150. Elementary Computational Physics

3 Credits (2+2P)

Introduction to computational techniques for the solution of physics-related problems.

Prerequisite(s): a C- or better in MATH 121G.

PHYS 203. Supplemental Instruction to PHYS 213

0.5-1 Credits (.5-1)

Optional workshop as a supplement to PHYS 213. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 213.

PHYS 204. Supplemental Instruction to PHYS 214

0.5-1 Credits (.5-1)

Optional workshop as a supplement to PHYS 214. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 214.

PHYS 205. Supplemental Instruction to PHYS 215G

0.5-1 Credits (.5-1)

Optional workshop as a supplement to PHYS 215G. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 215G.

PHYS 206. Supplemental Instruction to PHYS 216G

0.5-1 Credits (.5-1)

Optional workshop as a supplement to PHYS 216G. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 216G.

PHYS 211G. General Physics I

3 Credits

Non-calculus treatment of mechanics, waves, sound, and heat. Knowledge of simple algebra and trigonometry is required.

PHYS 211GL. General Physics I Laboratory

1 Credit

Laboratory experiments in topics associated with material presented in PHYS 211G.

Prerequisite(s)/Corequisite(s): PHYS 211G.

PHYS 212G. General Physics II

3 Credits

Non-calculus treatment of electricity, magnetism, and light.

Prerequisite(s): PHYS 211G or PHYS 221G.

PHYS 212GL. General Physics II Laboratory

1 Credit

Laboratory experiments in topics associated with material presented in PHYS 212G.

Prerequisite(s)/Corequisite(s): PHYS 212G.

PHYS 213. Mechanics

3 Credits

Newtonian mechanics. Pre/

Corequisite(s): MATH 191G.

PHYS 213 L. Experimental Mechanics

1 Credit

Laboratory experiments associated with the material presented in PHYS 213. Science majors. Pre/

Corequisite(s): PHYS 213.

PHYS 214. Electricity and Magnetism

3 Credits

Charges and matter, the electric field, Gauss law, the electric potential, the magnetic field, Ampere's law, Faraday's law, electric circuits, alternating currents, Maxwell's equations, and electromagnetic waves. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 192G. Prerequisite(s): a C- or better in PHYS 213 or PHYS 215G.

PHYS 214 L. Electricity and Magnetism Laboratory

1 Credit

Laboratory experiments associated with the material presented in PHYS 214.

Prerequisite(s)/Corequisite(s): PHYS 214. Prerequisite(s): a C- or better in PHYS 213L or PHYS 215GL.

PHYS 215G. Engineering Physics I

3 Credits

Calculus-level treatment of kinematics, work and energy, particle dynamics, conservation principles, simple harmonic motion. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in MATH 191G.

PHYS 215GL. Engineering Physics I Laboratory

1 Credit

Laboratory experiments associated with the material presented in PHYS 215G. Students wishing to use the PHYS 215G-216G sequence to satisfy the basic natural science general education requirement must register for either PHYS 215GL or PHYS 216GL. Pre/

Corequisite(s): PHYS 215G.

PHYS 216G. Engineering Physics II

3 Credits

A calculus-level treatment of topics in electricity, magnetism, and optics. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in PHYS 213 or PHYS 215G and MATH 192G.

PHYS 216GL. Engineering Physics II Laboratory

1 Credit

Laboratory experiments associated with the material presented in PHYS 216G.

Prerequisite(s)/Corequisite(s): PHYS 216G. Prerequisite(s): A C- or better in PHYS 213L or PHYS 215GL.

PHYS 217. Heat, Light, and Sound

3 Credits

Calculus-level treatment of thermodynamics, geometrical and physical optics, and sound. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in PHYS 213 or PHYS 215G.

PHYS 217 L. Experimental Heat, Light and Sound**1 Credit**

Laboratory experiments associated with the material presented in PHYS 217. Science majors.

Prerequisite(s)/Corequisite(s): PHYS 217. Prerequisite(s): a C- or better in PHYS 213L or PHYS 215GL.

PHYS 221G. General Physics for Life Sciences I**3 Credits**

This algebra-based introduction to general physics covers mechanics, waves, sound, and heat. Special emphasis is given to applications in the life sciences. This course is recommended for students in the life sciences and those preparing for the physics part of the MCAT.

Prerequisites: a C or better in MATH 120 or higher.

PHYS 221GL. Laboratory to General Physics for Life Science I**1 Credit**

Laboratory experiments in topics associated with material presented in PHYS 221G.

Prerequisite(s)/Corequisite(s): PHYS 221G. Restricted to Las Cruces campus only.

PHYS 222G. General Physics for Life Sciences II**3 Credits**

This algebra-based course covers electricity, magnetism, light, atomic physics, and radioactivity. Special emphasis is given to applications in the life sciences. This course is recommended for students in the life sciences and those preparing for the physics part of the MCAT.

Prerequisite: PHYS 211G or PHYS 221G.

PHYS 222GL. Laboratory to General Physics for Life Sciences II**1 Credit**

Laboratory experiments in topics associated with material presented in PHYS 222G.

Prerequisite(s)/Corequisite(s): PHYS 222G. Restricted to Las Cruces campus only.

PHYS 223. Supplemental Instruction to PHYS 221**1 Credit**

This optional workshop supplements Physics for Life Sciences I. The tutorial sessions focus on reasoning and hands-on problem solving.

Corequisite(s): PHYS 221G.

PHYS 224. Supplemental Instruction to PHYS 222**1 Credit**

This optional workshop is a supplement to Physics for Life Science II. The tutorial sessions focus on reasoning and hands-on problem solving.

Corequisite(s): PHYS 222G.

PHYS 280. Independent Study**1-3 Credits**

Individual analytical or laboratory studies directed by a faculty member. May be repeated for a maximum of 6 credits.

Prerequisite: consent of instructor.

PHYS 290. Special Topics**1-3 Credits**

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

PL-S-PARALEGAL SERVICES (PL S)

PL S 160. Legal System for the Paralegal**3 Credits**

Introduction to the court system, administrative agencies, functions of law offices, and professional conduct and legal ethics. Restricted to: Community Colleges only.

Prerequisite(s): ACT standard score in English of 16 or higher or a Compass score 76 or higher; for those scoring 13-15 in English on ACT or 35-75 on Compass, successful complete of CCDE 105N or CCDE 110N; for those scoring 12 or below on the ACT standard score in English or 34 or below on the Compass, successful completion of CCDE 105N & CCDE 110N.

PL S 161. Legal Terminology**3 Credits**

Survey of the language of the law that will serve either as an introductory course or as a review course to prepare students for the certification test.

PL S 162. The Virtual Law Office**3 Credits**

The Virtual Law Office class is a 'hands-on', project oriented course designated to provide the student with the basic law office skills needed to function successfully in a law office setting. The student will gain a practical, working knowledge of the procedures necessary to work in a law office. The skills learned in the class will directly translate to real life situations. Restricted to: Community Colleges only.

Prerequisite(s): PL S 160.

PL S 180. Constitutional Law for the Paralegal**3 Credits**

Case standing of the law of the Constitution and Bill of Rights with regard to day-to-day applications in the law practice. Documents dealing with constitutional problems in both civil and criminal areas of law will be drafted and discussed.

Prerequisite: PL S 160.

PL S 190. Criminal Law for the Paralegal**3 Credits**

Introduction to federal and state criminal law; criminal proceedings, prosecution and defense, sentencing and appeal.

Prerequisite: PL S 160.

PL S 200. Legal Ethics for the Paralegal**3 Credits**

Introduction to ethical dilemmas faced in the workforce and the rules of ethics developed by the American Bar Association, various national paralegal organizations, and the Supreme Court of New Mexico.

Restricted to: Community Colleges only.

Prerequisite(s): PL S 160.

PL S 203. Immigration Law**3 Credits**

Survey of the basics of immigration law including the rights and obligations of citizenship and the naturalization process.

Prerequisite: PL S 160.

PL S 221. Internship I**2-4 Credits**

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships can be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. Restricted to Community Colleges campuses only.

Prerequisite(s): PL S 274.

PL S 222. Internship II**1-3 Credits**

Continuation of PL S 221. Each credit requires specified number of hours of on-the-job work experience. Restricted to Community Colleges campuses only.

Prerequisite(s): PL S 221.

PL S 231. The Law of Commerce for the Paralegal**3 Credits**

Law of contracts, negotiable instruments, bank transfers, secured transactions, debtor-creditor relations, agency, and business types and their formation. Students will study the relevant statutes as well as draft documents associated with these types of legal practice. Restricted to: Community Colleges only.

Prerequisite(s): PL S 160.

PL S 272. Bankruptcy Law for the Paralegal**3 Credits**

Individual and corporate bankruptcy; the basic principles and processes of bankruptcy law as a system of debtor relief and debt collection.

Prerequisite: PL S 160.

PL S 274. Legal Research and Writing for the Paralegal I**3 Credits**

Legal memoranda, briefs, and pleadings will be prepared and written based on the student's original research. Research materials and techniques will be identified and studied; introduction of computer usage in legal research.

Prerequisite: PL S 160 and ENGL 111G.

PL S 275. Tort and Insurance for the Paralegal**3 Credits**

Primary legal principles of tort and insurance law and means of establishing insurance plans, types of torts and insurance, as well as use of specific forms and procedures relating to these areas.

Prerequisite: PL S 160.

PL S 276. Wills, Trusts, and Probate for the Paralegal**3 Credits**

Cases and statutes dealing with wills, trusts, and probate. Emphasis on preparation and drafting of documents and the application of the law and documents to the client's problems.

Prerequisite: PL S 160.

PL S 277. Family Law for the Paralegal**3 Credits**

Methods of conducting client interviews and drafting of pleadings and research relative to families. Laws relating to marriage, divorce, custody, support, adoption, name change, guardianship, and paternity.

Prerequisite: PL S 160.

PL S 278. Litigation for the Paralegal**3 Credits**

The law of procedure and evidence will be considered through rules and cases. Case situations will be used to identify and solve problems.

Prerequisite: PL S 160.

PL S 279. Legal Research and Writing for the Paralegal II**3 Credits**

Continuation of PL S 274. Advanced training in legal research problems with a focus on analysis, writing, and preparation of sophisticated legal memoranda and documents.

Prerequisite: PL S 274.

PL S 280. Interviewing and Investigation for the Paralegal**3 Credits**

Techniques of legal interviewing and investigation with emphasis on development of human relations and communication skills.

Prerequisite: PL S 160.

PL S 298. Independent Study**1-3 Credits (1-3)**

Individual studies directed by consenting faculty with prior approval by department head. Restricted to Community Colleges campuses only.

Prerequisite(s): PL S 160.

PORT-PORTUGUESE (PORT)

PORT 213. Portuguese for Romance Language Students I**3 Credits**

Introduction to the Portuguese language, Brazilian culture and civilization. Taught in Portuguese. Open to students with any previous Romance language study (French, Italian, Portuguese, Romanian, Spanish).

PORT 214. Portuguese for Romance Language Students II**3 Credits**

Continuation of PORT 213.

Prerequisite: C or better in PORT 213 or consent of instructor.

PSY-PSYCHOLOGY (PSY)

PSY 201G. Introduction to Psychology**3 Credits**

Methods and principles of behavior. Topics include human evolution and development, biopsychology, perception, learning, thinking, motivation, social interaction, and the diagnosis and treatment of abnormal behavior.

PSY 266. Applied Psychology**3 Credits**

Explanation of the psychological principles of everyday living. Emphasizes motivation, learning of intelligent behavior, and applications of psychology to social issues. Community Colleges only.

PSY 274. A Study of Substance Abuse through Service Learning**3 Credits**

Physiological and psychological impact of drug use on human behavior. Emphasizes practical applications of intervention and prevention in the community. Community Colleges only.

PSY 290. Psychology of Adjustment**3 Credits**

Analyzes the responses people have to conflict, emotional stress, and frustration. It focuses on adapting to these problems and examines both normal and neurotic responses. Community College campus only.

RADT-Radiologic Technology (RADT)

RADT 100. Introduction to Radiologic Technology and Patient Care**2 Credits**

Overview of the profession, including ethics, terminology, and basic radiation protection. Addresses basic and specialized procedures and topics related to the care of the patient. Restricted to: Community Colleges only. Restricted to Majors.

RADT 101. Radiographic Positioning I**4 Credits (2+6P)**

Covers radiographic procedure and positioning concepts, techniques, terminology, and mechanics related to the thorax, abdomen, extremities, spine and pelvis. Includes positioning lab and clinical observation.

RADT 102. Radiographic Positioning II**4 Credits (2+6P)**

Continuation of RADT 101. Includes skull, gastrointestinal, urinary, reproductive, biliary systems, and more advanced skeletal positions. Includes positioning lab and clinical observation. Restricted to: Community Colleges only. Restricted to Majors.

Prerequisite: RADT 101.

RADT 103. Introduction to Radiographic Imaging**3 Credits (2+2P)**

Provides the student with an in-depth knowledge of radiographic exposure technique and the factors affecting radiographic film quality. Includes lab experiments. Restricted to majors.

RADT 104. Special Radiologic Modalities**2 Credits**

Discussion of various special procedures used in medical imaging such as, angiography, ultrasound, computerized tomography, magnetic resonance imaging, digital imaging, nuclear medicine, radiation therapy, etc. Includes guest lectures and field trips.

Prerequisite: RADT 103.

RADT 105. Radiographic Physics and Equipment**3 Credits**

Fundamentals of rad physics. Includes electromagnetism, x-ray production and interactions, x-ray circuitry, tubes, grids, screens, AES, fluoroscopic and portable units, beam restricting devices, calibration and quality assurance/control. Overview of mammography, US, CT, MRI, and digital radiography. Restricted to: Community Colleges only. Restricted to Majors.

Prerequisite: RADT 103 or consent of instructor.

RADT 110. Radiographic Pathology**1 Credit**

Overview of pathology demonstrated by radiographic procedures. Restricted to majors.

Prerequisite: RADT 154.

RADT 154. Radiographic Anatomy and Physiology**3 Credits**

Basic A&P for radiographic application. Includes a systems approach to body structures and organs as they relate to anatomical projections, radiographic identification, and various imaging modalities. Restricted to: RADT majors. Restricted to: Community Colleges only.

Prerequisite(s): AHS 153 or AHS 140 or BIOL 225 or BIOL 154, or consent of instructor.

RADT 156. Independent Study**1-6 Credits**

Individual studies/research on topics related to the radiological sciences. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

RADT 190. CT Equipment and Methodology**3 Credits**

Skill development in the operation of computed tomographic equipment, focusing on routine protocols, image quality, and quality assurance and radiation protection. May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

RADT 200. Radiation Biology and Protection**2 Credits**

Biological effects of ionizing radiation on cells and tissues. Includes radiation measurements, policies and protection measures for self, patients, and others. Restricted to majors. Restricted to: Community Colleges only.

Prerequisite(s): RADT 103.

RADT 201. Clinical Education I**9 Credits**

Supervised practice in a radiology department under direct supervision of a registered technician. Includes film critiques. Community Colleges Only. Restricted to: RADT, OERT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): RADT 105.

RADT 202. Clinical Education II**12 Credits**

Continuation of RADT 201. Student will work under indirect supervision of registered personnel. Restricted to: RADT, OERT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OERT 201.

RADT 203. Clinical Education III**11 Credits**

Continuation of RADT 202. Restricted to: RADT, OERT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OERT 202.

RADT 205. Radiographic Image Critique**1 Credit**

Review of radiographs produced in clinical settings to evaluate anatomy and technical issues. Restricted to majors.

Prerequisite: RADT 201.

RADT 206. Applied Radiographic Procedures**2 Credits (1+3P)**

Advanced course which integrates the principles and techniques of radiologic technology. Restricted to majors.

Prerequisite: RADT 202.

RADT 207. Cross Sectional Anatomy for Medical Imaging**3 Credits**

Anatomic relationships that are present under various sectional orientations as depicted by computed tomography or magnetic resonance imaging. May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

RADT 208. Clinical I (Computed Tomography)**3 Credits**

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. May be repeated up to 3 credits. Restricted to: RADT or CTOM majors. Restricted to Community Colleges campuses only.

RADT 209. Clinical II (Computed Tomography)**3 Credits**

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. (Capstone Course).

May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

RESP - RESPIRATORY THERAPY (RESP)

RESP 110. Respiratory Therapy I

3 Credits

Introduction to basic respiratory care techniques. Includes history, professional organizations, medical gas administration, oxygen therapy, cardiopulmonary AP, patient assessments, and medical terminology. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 110 L. Respiratory Therapy I Lab

2 Credits

Laboratory practice of basic respiratory care procedures. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 115. Respiratory Therapy Pharmacology

3 Credits

Concepts of physics as they apply to the physiology of the lungs. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 120. Respiratory Therapy II

4 Credits

Advanced respiratory care techniques. Emphasis on airway management, aerosol treatment, chest physiotherapy, pharmacology, posture pressure breathing, and pulmonary rehabilitation. Requires a C or better to remain in program. May be repeated up to 4 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Admission to program and RESP 110.

Corequisite(s): RESP 120 L.

RESP 120 L. Respiratory Therapy II Lab

2 Credits

Continuation of lab practices and procedures learned in RESP 120, Respiratory Care II, using equipment and simulations. Requires a C or better to remain in program. Corequisite(s): RESP 120. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, RESP 110, RESP 110L and RESP 112.

RESP 124. Respiratory Therapy II Clinical

3 Credits

Supervised practice and application in a hospital setting. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, RESP 110, RESP 110L and RESP 112.

Corequisite(s): RESP 120 and RESP 120L.

RESP 155. Respiratory Therapy Special Topics

1-4 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 10 credits. Consent of instructor required. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program.

RESP 210. Respiratory Therapy III

2 Credits

Introduction to adult, mechanical, neonatal ventilator theory and concepts of critical care medicine. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 115, RESP 120, RESP 120L, and RESP 124.

Corequisite(s): RESP 210L.

RESP 210 L. Respiratory Therapy III Lab

2 Credits

Advanced practice procedures using mechanical ventilation devices. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 115, RESP 120, RESP 120 L, and RESP 124.

Corequisite(s): RESP 210.

RESP 224. Respiratory Therapy IV Clinical

3 Credits

Continuation of RESP 124. Emphasis on mechanical ventilators. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 115, RESP 120, RESP 120 L, and RESP 124.

RESP 230. Respiratory Therapy V

3 Credits

Continuation of RESP 215. Emphasis on special modalities. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 230 L. Respiratory Therapy V Lab

2 Credits

Advanced practice and procedures of respiratory care. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 233. Respiratory Therapy Cardiopulmonary

2 Credits

Concepts of physics as they apply to the physiology of the lung. Emphasis on laws pertaining to gas flow, humidity, and the mechanics of the breathing process. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 234. Respiratory Therapy V Clinical

3 Credits

Continuation of RESP 214. Emphasis on special modalities. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 240. Respiratory Therapy VI

3 Credits

Advanced theory of hemodynamics, neonate, pediatric, and new specialties that apply to respiratory care. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 230, RESP 230L, RESP 233 and RESP 234.

Corequisite(s): RESP 240L.

RESP 240 L. Respiratory Therapy VI Lab**2 Credits**

Advanced laboratory practice and procedures. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 230, RESP 230L, RESP 233 and RESP 234.

Corequisite(s): RESP 240.

RESP 242. Pediatric Advanced Life Support (PALS)**1 Credit**

Etiology, diagnosis, clinical manifestations, and management of cardiopulmonary disorders related to respiratory care. Restricted to majors.

Corequisite: RESP 230.

RESP 243. Respiratory Therapy Neonatal Resuscitation**1 Credit**

Advanced practice of the neonatal resuscitation and certification. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program and RESP 230, RESP 230L, RESP 233, and RESP 234.

Corequisite(s): RESP 240 and RESP 244.

RESP 244. Respiratory Therapy VI Clinical**3 Credits**

Clinical experience on special modalities. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 230, RESP 230L, RESP 233 and RESP 234.

Corequisite(s): RESP 240.

RESP 255. Respiratory Therapy Special Topics**1-4 Credits**

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 4 credits. Consent of instructor required. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program.

RGSC-RANGE SCIENCE (RGSC)**RGSC 150. Rangeland Science Profession****1 Credit**

Introduction to scientific disciplines and career opportunities in rangeland science and management.

RGSC 250. Special Topics**1-4 Credits**

Specific subjects and credits announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

RGSC 294. Rangeland Resource Management**3 Credits**

Overview of arid and semi-arid ecosystems in the US and abroad, rangeland plant physiology, ecology of rangeland plant communities and ecosystems, sustainable management for multiple uses including grazing livestock production, wildlife habitat, recreation and ecosystem services, and economics of rangeland-based enterprises. Restricted to: Main campus only.

S WK-SOCIAL WORK (S WK)**S WK 221G. Introduction to Social Welfare****3 Credits**

A broad overview of current social problems and the role of social agencies and community members in addressing these problems.

S WK 251. Women s Issues in Social Work**3 Credits**

Examines gender-specific social problems and their identification and resolution through the use of social agencies and community resources. Community Colleges only.

S WK 253. Case Management**3 Credits**

Introduction to case management for social- and human-services workers. Overview of typical duties and responsibilities of a case manager, including setting goals, performing assessments, writing progress notes, and linking clients with other resources in the community. Recommended for students considering a career in social work or human services. Community Colleges only.

Prerequisites: PSY 201G and S WK 221G.

SMET-SCIENCE/MATH/ENG/TECH (SMET)**SMET 101. Introduction to Science, Mathematics, Engineering, and Technology****1 Credit**

An introductory course for science, mathematics, engineering, or technology students, emphasizing introduction to their disciplines. Development of critical thinking and academic success skills for technical disciplines, as well as degree planning for the major. Consent of Instructor required.

SMET 102. Introduction to Engineering Design.**1 Credit**

Fundamental concepts of engineering design developed through analysis of case studies and hands-on design projects. Consent of instructor required.

SMET 201. Research for Visiting Community College Students**1 Credit**

Research experience for visiting community college students. Consent of instructor required. Restricted to: Main campus only.

SOC-SOCIOLOGY (SOC)**SOC 101G. Introductory Sociology****3 Credits**

Introduction to social theory, research, methods of analysis, contemporary issues in historical and cross-cultural contexts. Covers groups, deviance, inequality, family, gender, social change, and collective behavior.

SOC 201G. Contemporary Social Problems**3 Credits**

Introduction to the fundamentals of social analysis through the analysis of contemporary American social problems. Emphasis on methods of analysis and cross-national comparisons showing that the social problems studied are common to all societies. Covers racism, violence, poverty, crime, health care, and substance abuse.

SOC 258. Current Issues in Marriage and Family**3 Credits**

Examination of contemporary American family life, including courtship, marriage, divorce, and child rearing. Community Colleges only.

SOC 262. Issues in Death and Dying**3 Credits**

Major personal and social issues related to the process of dying in our culture. Community Colleges only.

SOC 263. Human Sexuality**3 Credits**

Introduction to cultural and personal aspects of human intimacy, sexuality and the life cycle, sexual variation, and sexually transmitted diseases. Community Colleges only.

SOC 269. Sexualities and Society**3 Credits**

Examines various sexualities from a sociological perspective. Topics include sexual identity, intimate relationships, sexual desire, sexual behavior, the sex industry, and the politics of sexuality. Discussion of selected topics is grounded in both macro and micro sociological viewpoints. Restricted to: Main campus only.

SOC 273. Sex and Gender**3 Credits**

Analysis of changes, behaviors, and stereotypes of women and men in contemporary Western societies. Same as W S 273.

SOIL-SOIL (SOIL)

SOIL 200. Special Topics**1-4 Credits**

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

SOIL 252. Soils**3 Credits**

Origin, classification, morphology, and physical, chemical, and biological properties of soils.

Prerequisite: CHEM 111G and CHEM 112G.

SOIL 252 L. Soils Laboratory**1 Credit**

Morphological, chemical, physical and biological properties of soil in the laboratory and field.

Corequisite: SOIL 252.

SOIL 257. Introduction to Weather Science**4 Credits (3+3P)**

Introduction to Earth's atmosphere and the dynamic world of weather as it happens. Working with current meteorological data delivered via the Internet and coordinated with learning investigations keyed to the current weather; and via study of select archives. Consent of instructor required. Crosslisted with: GEOG 257 and AGRO 257

SP M-SPORTS MEDICINE (SP M)

SP M 190. Introduction to Athletic Training**3 Credits**

Introduction to the principles of athletic training.

SP M 191. Medical Terminology**3 Credits**

Study of the structure of medical language with emphasis on sports medicine-related terminology. To include analysis and interpretation of medical documentation. Restricted to: Las Cruces campus only.

SP M 200. CAREER PREPARATION**1 Credit**

From concept to implementation: Career exploration, setting up degree plans, finding graduate programs, developing professional resumes, writing letters of application, seeking letters of recommendation, and interview preparation May be repeated up to 3 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

SP M 223. Exploring Extreme Human Performance**3 Credits**

A reading, writing and documentary based course studying human's quest and the related sacrifices associated with participating in extreme performance activities such as the Olympics, wakeboarding, snowboarding, military special forces, ultra-run events, marathons, etc. Consent of Instructor required. Restricted to Las Cruces campus only.

SP M 250. Emergency Response in Sports Medicine**2 Credits**

Designed to provide knowledge and experience in emergency care procedures, blood borne pathogens, and first aid. Students will receive certification in CPR/AED for the Professional Rescuer and in First Aid, upon successful completion of course. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

Prerequisite(s): Consent of Instructor.

SP M 271. Anatomy & Physiology I**3 Credits**

Detailed study of the structure and function of the human musculoskeletal, cardiovascular, respiratory, and peripheral nervous systems. Designed specifically for students interested in allied health professions. Restricted to Las Cruces campus only.

SP M 271 L. Anatomy and Physiology Laboratory**1 Credit**

Compliment to SP M 271. Students will engage in activities designed to enhance appreciation of the anatomical structures related to the content areas for SP M 271. Restricted to Las Cruces campus only.

SP M 272. Clinical Practicum I**2 Credits**

Introduction to the clinical aspects of the athletic training education program. Must maintain at least 3.0 GPA. May be repeated up to 4 credits. Consent of Instructor required. Restricted to: SP M majors. Restricted to Las Cruces campus only.

SP M 273. Clinical Practicum II**3 Credits**

Athletic training psycho-motor skills are enhanced and assessed by a preceptor during clinical rotations. Emphasis is on competencies and proficiencies previously instructed in didactic courses. Must maintain a 3.0 GPA. Consent of Instructor required. Restricted to: SP M majors. Restricted to Las Cruces campus only.

SP M 275 L. A & P LAB PE/DANCE**1 Credit**

Practical laboratory involving the kinematic and kinesthetic aspects of Human Anatomy and Physiology as it applied to Physical Education and Dance Restricted to: Physical Education and Dance. Not acceptable for Kinesiology Majors majors. Restricted to Las Cruces campus only.

Prerequisite(s): SP M 271.

SP M 290. General Medical Conditions**3 Credits**

Study of the recognition, evaluation, management, and treatment of non-orthopedic medical conditions that affect the physically active population. Consent of Instructor required. Restricted to: SP M and Kines Majors majors. Restricted to Las Cruces campus only.

Prerequisite(s): SP M 190, 191 and 271/271L.

SPAN-SPANISH (SPAN)

SPAN 101. Beginning Spanish Conversation**3 Credits**

Beginning conversation and intensive oral practice for non-degree seeking students, and SPAN 111 and SPAN 112 students who desire additional conversational practice. This course does not count toward the NMSU second language requirement and is not open to native Spanish speakers without permission of instructor. Restricted to: Community colleges.

SPAN 111. Elementary Spanish I**4 Credits (4)**

Spanish for beginners. Speaking and writing common interactions in predictable settings using basic vocabulary and verb tenses. Communicate in Spanish both orally and in writing sufficiently well so as to be able to make yourself understood by native speakers accustomed to dealing with non-native speakers. In spontaneous conversation and in writing, students will be able to produce a few sentences. **Prerequisite(s):** Not open to Spanish-speaking students except by consent of instructor.

Prerequisite: language placement and/or assessment by departmental examination.

SPAN 112. Elementary Spanish II**4 Credits (4)**

Spanish for beginners. Speaking and writing common interactions in predictable settings using basic vocabulary and verb tenses, including talking about events in the past and possible recommendations for the future. Communicate in Spanish both orally and in writing sufficiently well so as to be able to make yourself understood by native speakers accustomed to dealing with non-native speakers. In spontaneous conversation and in writing, students will be able to produce a variety of sentences and form context appropriate to open-ended questions. **Prerequisite(s):** Not open to Spanish-speaking students except by consent of instructor.

Prerequisite: language placement and/or assessment by departmental examination or a C- or better in SPAN 111.

SPAN 113. Spanish for Heritage Learners I**3 Credits**

Emphasis on development of heritage Spanish language skills learned at home and/or in the community. Covers listening comprehension, development of vocabulary and cultural activities to help strengthen heritage language and culture. Students who have previously earned a C or better in SPAN 111 or SPAN 112 may not receive credit for this course.

SPAN 115. Elementary Spanish I for Hotel, Restaurant and Tourism Managers**4 Credits**

Beginning Spanish for HRTM majors only. Will count towards HRTM degree language requirement. Does not count towards language requirement for other majors. Restricted to: Main campus only. Restricted to HRTM majors.

SPAN 211. Intermediate Spanish I**3 Credits (3)**

Speaking, reading and writing. Not open to Spanish-speaking students except by consent of instructor.

Prerequisite: language placement and assessment by departmental examination or C or better in SPAN 112.

SPAN 212. Intermediate Spanish II**3 Credits (3)**

Speaking, reading and writing. Not open to Spanish-speaking students except by consent of instructor.

Prerequisite: language placement and assessment by departmental examination or C or better in SPAN 211.

SPAN 213. Spanish for Heritage Learners II**3 Credits**

Emphasis on development of heritage language skills learned at home and/or in the community. Covers spoken Spanish, reading activities and grammar skills to build on existing knowledge of the language.

SPAN 214. Spanish for Heritage Learners III**3 Credits**

Continued development of heritage Spanish language skills learned at home and/or in the community. Emphasis on reading, writing and critical thinking skills. Review of grammar points will also be stressed in preparation for upper level courses.

SPCD-ENGLISH AS A SECOND LNG (SPCD)

SPCD 108. Intermediate ESL Listening and Speaking**3 Credits**

Development of listening and speaking skills with attention to pronunciation. Emphasis on conversation and oral practice appropriate to an academic setting. Graded S/U.

Prerequisites: placement based on English language screening test, and either a minimum TOEFL score of 500 or consent of instructor.

SPCD 110. Intermediate ESL Composition and Grammar Review**3 Credits**

Development of fluent academic writing skills, with an emphasis on grammar review for editing purposes.

Prerequisite(s): Placement based on English language screening test, and either a minimum TOEFL score of 500 or consent of instructor.

SPCD 111G. Advanced ESL Composition**4 Credits**

Academic writing, including library research papers and the issue of plagiarism, for students with nonnative English. (SPCD 111G is substituted for ENGL 111G for international students whose native language is not English.). Restricted to: Main campus only.

Prerequisite(s): Placement based on English language screening test, and either a minimum TOEFL score of 500 or consent of instructor; or successful completion of SPCD 110.

SPED-SPECIAL EDUCATION (SPED)

SPED 201. Topics**3 Credits**

Offered under various subtitles that indicate the subject matter to be covered. May be repeated 3 times for a maximum of 9 credits.

SPED 202. Culture, Learning and Academic Achievement in a Diverse Society**3 Credits**

Development of culturally responsive learning strategies, skills and utilization of support services, to enhance academic achievement. Restricted to: Main campus only.

SPED 210. Introduction to Special Education**3 Credits**

For paraprofessional students who will be working with a teacher in a Special Education classroom. This class will provide an overview of characteristics of children with special needs, legal issues, framework of effective instruction and a variety of practical teaching and learning strategies that are relevant to the tasks and academic demands required in inclusive classrooms.

STAT-STATISTICS (STAT)

STAT 251G. Statistics for Business and the Behavioral Sciences**3 Credits**

Techniques for describing and analyzing data; estimation, hypothesis testing, regression and correlation; basic concepts of statistical inference. Crosslisted with: A ST 251G.

Prerequisite(s): C- or better in MATH 120.

STAT 271G. Statistics for Psychological Sciences**3 Credits**

Techniques for describing and analyzing data; basic concepts of statistical inference; estimation, hypothesis testing, correlation, and analysis of variance.

Prerequisite(s): C- or better in MATH 120.

SUR-SURVEYING (SUR)

SUR 101. Introduction to Surveying Engineering**1 Credit**

Review and discussion of career paths open to surveying engineers. Restricted to: Main campus only.

SUR 201. GPS and Spatial Data Applications**3 Credits**

Overview of spatial data applications based on GPS observations. Emphasis on positioning and navigation using code-phase techniques with handheld receivers. Use of coordinate systems. Students encouraged to have their own GPS handheld unit.

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. May be repeated up to 3 credits. Crosslisted with: DRFT 222.

Prerequisite(s): MATH 190G.

SUR 264. Introduction to LIS**3 Credits (2+3P)**

Introduction to land information systems. Land tenure systems, coordinate systems, computer methods. Pre/

Corequisite(s): DRFT 109.

SUR 285. Precise Digital Mapping**3 Credits**

Perform basic photogrammetric mapping, and create digital terrain models. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): SUR 222 or DRFT 222.

SUR 292. Public Land Survey System Boundaries**3 Credits (2+3P)**

Detailed study of the U.S. Public Land Survey System Instructions with special emphasis on New Mexico. Sectionalized land subdivision, corner restoration, and field surveys. Field trips required.

Prerequisite: SUR 222.

SURG-SURGICAL TECHNOLOGY (SURG)

SURG 120. Surgical Technology Clinical I**2-4 Credits**

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. This course is designed to prepare the student to enter the surgical environment. This course provides an introduction to the operating room, observation of surgical procedures, direct participation in the preoperative (pre-op, intra-op, post-op) preparation of individual cases and professional roles and responsibilities of individual members of the surgical team. Direct supervision is provided by the clinical professional. May be repeated up to 4 credits.

Prerequisite(s): Admission to Surgical Technology Program, BIOL 221, BIOL 225, BIOL 226, NURS 150.

Corequisite(s): SURG 140, SURG 145.

SURG 140. Introduction to Surgical Technology**4 Credits**

This is an orientation to surgical technology theory, surgical pharmacology and anesthesia, technology sciences and patient care concepts and is designed to prepare the student to enter the surgical environment with entry-level knowledge necessary to understand patient responses to disease, illness, hospitalization, surgical procedures, commonly used pharmacological and anesthetic agents, and legal, moral, and ethical issues that could be encountered in the surgical environment. Restricted to Community Colleges campuses only.

Prerequisite(s): Admission to Surgical Technology Program; BIOL 221, BIOL 226, & NURS 150.

SURG 145. Fundamentals of Perioperative Concepts & Techniques**4-5 Credits (3+3P)**

This is an in-depth coverage of perioperative concepts such as aseptic/sterile principles and practice, infectious processes, wound healing and creation and maintenance of the sterile field. This course is designed to prepare the student to enter the surgical environment with entry-level knowledge of aseptic technique principles and practices, the creation and maintenance of the sterile field including equipment, supplies and instrumentation, and basic case preparation and procedures. An introduction to diseases and disease processes that may be displayed by the surgical patient and the patient's bodily responses to disease are also included. May be repeated up to 5 credits.

Prerequisite(s): Admission to Surgical Technology Program, BIOL 221, BIOL 225, BIOL 226, & NURS 150.

SURG 150. Surgical Procedures I**4-5 Credits (3-5+3P)**

This course is an introduction to surgical procedures and its related pathologies. Emphasis on surgical procedures related to general, obstetrics/gynecology, genitourinary, otorhinolaryngology and orthopedic surgical specialties incorporating instruments, equipment. It is designed to prepare the student to function actively in the surgical environment with entry-level knowledge of surgical procedures. This course expands the basic foundation principles and combines the study of common surgical procedures to include anatomy, physiology and pathophysiology. Specific patient care concepts, medications, instrumentation, equipment, supplies and complication related to selected surgical procedures will be discussed. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 140, SURG 145, and SURG 120.

SURG 155. Pharmacology for the Surgical Technology**3 Credits**

This is an orientation to surgical pharmacology and anesthesia and is designed to prepare the student to enter the surgical environment with knowledge necessary to categorize the classification of drugs, calculate drug dosages and identify the therapeutic use, routes of administration, indications, contraindications and adverse effects of pharmacologic agents used in the perioperative setting. This course is the foundation for the acquisition of program specific competencies as identified by the AST Core Curriculum. Restricted to Carlsbad campus only.

SURG 160. Surgical Procedures II**4 Credits**

This is an introduction to surgical procedures and related pathologies. Emphasis on surgical procedures related to thoracic, peripheral vascular, plastic/reconstructive, ophthalmology, cardiac and neurological surgical specialties incorporating instruments. The course is designed to prepare the student to continue to function actively in the surgical environment with entry-level knowledge of more complex surgical procedures. This course expands the basic foundation principles and combines the study of complex surgical procedures to include anatomy, physiology, and pathophysiology. Specific patient care concepts, medications, instrumentation, equipment, supplies, and complications related to specific surgical procedures will be discussed. Realities of clinical practice and concepts of death and dying will also be discussed. Admission to Surgical Technology Program necessary to enroll in the course. Restricted to Community Colleges campuses only.

Prerequisite(s): SURG 150, SURG 260.

SURG 230. Professional Readiness**2-3 Credits (2-3)**

This course transitions the student into professional readiness for employment, professional readiness for attaining certification and professional readiness for maintaining certification status. May be repeated up to 3 credits. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 140, SURG 145, SURG 120, SURG 150, SURG 260.

Corequisite(s): SURG 160, SURG 265.

SURG 260. Surgical Technology Clinical II**4 Credits**

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. This course is designed to provide the student the opportunity to function actively in the role as a surgical technologist and health care team member in a clinical setting under the direct supervision of faculty and health care staff. Applications of basic principles and practices combined with a supervised clinical experience participating in common surgical procedures is the focus. Admission to Surgical Technology Program necessary to enroll in the course. Restricted to Community Colleges campuses only.

Prerequisite(s): SURG 120, SURG 140, & SURG 145.

SURG 265. Surgical Technology Clinical III**3-7 Credits**

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. This course is designed to provide the student the opportunity to function actively in the role of a surgical technologist and health care team member in a clinical setting under the direct supervision of faculty and health care staff. Refinement and application of basic principles and practices combined with entry-level employment competency expectations is the focus. Preparation for the National Certification Examination for Surgical Technologists is also included. May be repeated up to 7 credits. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 260.

TCEN-ENVIRONMENTAL/ENERGY TECH (TCEN)

TCEN 101. Energy for the Next Generation**3 Credits (2+2P)**

This course will survey a broad range of sources of energy, types of energy, energy storage, and the forms of energy. Students will be exposed to theory in the classroom, laboratory exercises, and field trips to provide them with a solid foundation for all subsequent energy related environmental courses. Crosslisted with: OETS 101.

Prerequisite(s)/Corequisite(s): OETS 118 or MATH 120. Restricted to: Community Colleges only.

TCEN 105. Building Analyst I**3 Credits (2+2P)**

This course is designed to provide the foundational knowledge and expertise necessary for the energy auditor and home performance contractor. Crosslisted with: OETS 105. Restricted to: Community Colleges only.

TCEN 106. Building Analyst II**3 Credits (2+2P)**

Designed to prepare the student for the BPI Building Analyst Certification. This course will walk the student through the hands-on process of conducting visual building inspections, diagnostic testing, identifying improvement opportunities, documenting a home's performance and preparing a scope of work. Crosslisted with: OETS106.

Prerequisite(s)/Corequisite(s): TCEN 105 or OETS 105. Restricted to: Community Colleges only.

TCEN 110. Photovoltaic Application**4 Credits (3+2P)**

This course will provide an introduction to Photovoltaic (PV) installation. The course will provide instruction on site selection, prep, installation, and maintenance for photovoltaic applications. Students that complete the course and have the opportunity to take the entry level exam with the North American Board of Certified Energy Practitioners (NABCEP) en route to becoming Certified Installers. Crosslisted with: OETS110.

Prerequisite(s)/Corequisite(s): TCEN 101 or OETS 101. Restricted to: Community Colleges only.

TCEN 111. Basic Electrical Principles I, DC Circuits**4 Credits (3+2P)**

Course begins with the basics of electricity and DC circuits. Includes categorization of material properties within conductors, semiconductors, and insulators. Gradual progression tackles more complex topics like DC circuit analysis of series and parallel circuits, including Kirchhoff's laws, Thevenin's & Norton's theorems, and superposition. Finally DC combination circuits, magnetism and electromagnetism, generators and motors are covered. Emphasis on safety throughout. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OETS 104 or MATH 120. Restricted to Community Colleges campuses only.

TCEN 112. PV Power Generation Design Fundamentals**3 Credits (2+2P)**

A study of photo voltaic design basics, photo voltaic (PV) Cells, modules, and system components; electrical circuits; grid-tied/grid-interactive PV system design and sizing for use on homes; solar electric products and applications; and understanding energy conversion from sunlight to electricity, and working with solar conversion equipment. Pre/ May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 111 and (OETS 104 or MATH 120). Restricted to Community Colleges campuses only.

TCEN 113. OSHA 10 Hour Construction Hazard Identifications**1 Credit**

Intended for entry-level participants to provide instruction on a variety of construction safety and health standards. Topics include Introduction to OSHA, Electrical, Ladder, Excavation, Scaffold, and Forklift Hazards, Fall Protection, Materials Handling, Personnel Protective Equipment and Confined Space Entry Hazards. Meets OSHA 10-Hour Requirements.

TCEN 115. Wind Power Generation Design Fundamentals**3 Credits (2+2P)**

Course covers wind turbine module descriptions and functions and wind system installation, operation, and troubleshooting. Additional topics include wind energy harvesting and the conversion process from the generator system to electricity. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 111 and (OETS 104 or MATH 120). Restricted to Community Colleges campuses only.

TCEN 121. Basic Electrical Principles II, AC Circuits**4 Credits (3+2P)**

Course begins with an overview of the primary components of AC circuits, such as resistors, inductors, rectifiers, transformers and capacitors, and then gradually introduces new, more complicated topics like applying AC principles in power generation and generators, motors, parallel and combination circuits, troubleshooting and evaluation of circuit conditions. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): TCEN 111 and (OETS 104 or MATH 120). Restricted to Community Colleges campuses only.

TCEN 130. Introduction to Biomass/Biogas**3 Credits (2+2P)**

Introduction to utilization of renewable biological wastes including crops for production of fuels. Anaerobic digester, gasification, pyrolysis, combustion and fermentation will be covered.

Prerequisite(s)/Corequisite(s): TCEN 101 or OETS 101. Restricted to: Community Colleges only.

TCEN 140. Biofuel Science**3 Credits (2+2P)**

Fundamentals of basic organic chemistry and biochemistry applied to biofuel synthesis. Students will also be introduced to concept of conservation of matter and chemical reactions. Restricted to: Community Colleges 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 180. Bio-diesel and Bio-ethanol Production**4 Credits (2+4P)**

Overview of the production of biofuels. Students will be introduced to current biofuel production processes, trans-esterification, hydrolysis and fermentation reactions, distillation, and laboratory synthesis of biofuels and engine performance tests. Restricted to: Community Colleges only.

Prerequisite(s): TCEN 140.

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 210. Solar Thermal**4 Credits (2+4P)**

The purpose of this course is for students to learn to install solar thermal collectors for several applications, including domestic hot water, pool heating, and space heating. Students will be able to identify types of systems and components, adapt a system design, conduct a site assessment, install solar collectors, install components, install control systems, perform a system checkout, and maintain and troubleshoot a solar thermal system. Restricted to: Community Colleges only.

Prerequisite(s): TCEN 101 or OETS 101.

TCEN 215. Fluid Thermal Systems**4 Credits (2+4P)**

Fluid properties and measurement, piping and tubing standards, pumps and operation. Restricted to: Community Colleges only.

Prerequisite(s): PHYS 110G or PHYS 211G.

TCEN 220. Cooperative Experience**1-3 Credits (1-3)**

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. May be repeated up to 6 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): MAT 235. **Prerequisite(s):** TCEN 180. Restricted to: TCEN majors. S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

TCEN 221. Roofing Materials and Methods**3 Credits (2+2P)**

Covers application techniques and estimation of asphalt and wood roofing products and accessories including gutters and flashing. Presents roof penetration, roof loading issues, and energy system installation requirements for mounting photo voltaic or solar thermal systems.

Prerequisite(s): TCEN 112.

TCEN 222. Photo Voltaic Grid Tie Installation**4 Credits (3+2P)**

This is a more advanced course culminating in a PV system-to-grid connection. This course includes gathering site specific data, design, wire type and sizing specific to project, installation of all solar modules and balance of system (BOS) components, and grounding and bonding of system components, all in accordance with the latest NEC. Upon project design approval a system will be commissioned for the grid. Decommissioning will commence after measurements and troubleshooting as directed by the instructor. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): TCEN 121 and TCEN 223. **Prerequisite(s):** TCEN 111 and TCEN 112. Restricted to Community Colleges campuses only.

TCEN 223. Photo Voltaic National Electrical Code Principles**2 Credits (2+1P)**

Focuses on all sections of the National Electrical Code and local code requirements applicable to photo voltaic electrical installation. A partial list of areas covered is chapters one through four and section 690, "Solar Photovoltaic Systems" of the National Electrical Code. Pre/

Prerequisite(s): TCEN 112.

Corequisite(s): TCEN 222.

TCEN 224. Field Experience**1-3 Credits (1-3)**

Student will collaborate with instructor in proposing, defining, implementing, and analyzing outcomes of a project in the Environmental and Energy fields of study. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: TCEN majors. Restricted to: Community Colleges only.

TCEN 240. Renewables and Sustainability**3 Credits**

Various renewable energy technologies and sustainable design practices will be introduced. Restricted to: Community Colleges only.

Prerequisite(s): TCEN 101 or OETS 101.

TCEN 241. Solar Thermal SHW Principles/Installation and Maintenance**3 Credits (2+2P)**

Course presents the theory, installation, operation, and maintenance of solar hot water (SHW) systems. Topics include the types of systems to choose, the costs associated with SHW installation and operation, system sizing requirements, batteries and battery chemistry. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OETS 104 or MATH 120.

TCEN 246. Building Weatherization & Auditor Fundamentals**3 Credits**

Course provides information on how to locate air leaks and identify heat losses or gains through specific testing. Students will learn how to inspect and evaluate building envelopes, mechanical systems, and ventilation systems to determine the safety and energy consumption for each system. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): TCEN 113 and OETS 104.

Corequisite(s): TCEN 221.

TCEN 250. Photo Voltaic System Integrator Fundamentals**3 Credits**

Teaches the student project management fundamentals for working with homeowners, businesses, government, contractors, and manufacturers to design, build, and install complete alternative energy systems. Covers photovoltaic, small wind, and micro-hydro system designing, permitting, budgeting, and cost estimating requirements. Pre/

Prerequisite(s): E T 125.

Corequisite(s): TCEN 222.

TCEN 251. Advanced Photo Voltaic On/Off Grid Installation**3 Credits (2+2P)**

Photo Voltaic advanced topics to include panel racking and installation, battery storage, charge controllers, mechanical integration of arrays on buildings, and key elements involved in choosing a mounting system. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 222. Restricted to Community Colleges campuses only.

TCEN 252. NABCEP Entry-Level Exam Review**1 Credit**

Course presents knowledge, key terms, and concepts of photovoltaic systems and solar hot water systems as related to the NABCEP Entry-level exam. This exam is for those wanting to enter the workforce in either solar thermal or solar PV. Scheduling and taking the exam is the responsibility of the student. May be repeated up to 1 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): TCEN 253. **Prerequisite(s):** TCEN 222. Restricted to Community Colleges campuses only.

TCEN 253. Renewable Energy System Troubleshooting and Maintenance**3 Credits (2+2P)**

Covers wind, solar and solar thermal system troubleshooting and maintenance topics to include equipment, electrical, and installation problem areas. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 251. **Prerequisite(s):** TCEN 222. Restricted to Community Colleges campuses only.

TCEN 254. Renewable Energy Internship**2 Credits**

Student will receive industry-related renewable energy experiences at an approved industry location. Typical areas of hands-on practices will be installing solar PV, solar hot-water systems, or wind energy systems. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): TCEN 112 and 113 and 222.

THTR-THEATRE (THTR)

THTR 101G. The World of Theatre**3 Credits**

An appreciation class introducing the non-major to all aspects of theatre, including its history, literature and professionals. Students attend and report on stage productions.

THTR 105. Acting for Non-Majors**3 Credits**

An introduction to basic performance techniques for non-majors.

THTR 110. Beginning Acting**3 Credits**

Basic understanding of self-expression through a variety of physical exercises, improvisation, and character study, culminating in scene or monologue work. Restricted to: THTR majors.

THTR 120. Stage Movement**3 Credits**

Physical techniques for the actor to develop kinesthetic awareness and skills in characterization, archetypes, and stage combat. Restricted to: THTR majors.

THTR 130. The Art of Theatre**3 Credits**

This course introduces the variety and scope of theatre professions, the value and goals of the theatre major and an analysis of the art form from script to stage. Restricted to: Required for THTR majors majors.

THTR 141. Introduction to Stagecraft**3 Credits**

Basic techniques used in the construction of scenery, props, and sound. Lab required. Pre/

Corequisite(s): THTR 141L.

THTR 141 L. Stagecraft Laboratory**1 Credit**

Class members will assist with construction for productions in a studio environment. Pre/

Corequisite(s): THTR 141.

THTR 142. Introduction to Costume Crafts**3 Credits**

Common costume production techniques, including basic stitching, use of equipment, knowledge of available materials, dyeing, and 3-D.

Prerequisite(s)/Corequisite(s): THTR 142L. Restricted to: THTR majors.

THTR 142 L. Costume Craft Lab**1 Credit**

Class members will assist in construction for productions in a studio environment. Pre/

Corequisite(s): THTR 142.

THTR 149. Running Crew I**2 Credits (1+2P)**

Students learn about backstage and front of house production positions and work on a technical aspect of a production in a rehearsal and performance environment.

THTR 200. Theatre Workshop I**0.5 Credits**

Required for all freshman and sophomore theatre majors, this course coordinates all processes within Theatre Arts, providing a forum for discussion and feedback. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

THTR 210. Intermediate Acting: Scene Study and Monologues**3 Credits**

Monologues and scene work, using character and script analysis.

Prerequisite(s)/Corequisite(s): THTR 205. Prerequisite(s): THTR 110 with C- or above.

THTR 220. Vocal Production for the Actor**3 Credits**

Exploration and development of the actor's vocal instrument, including relaxation, projection, diction and articulation. May be repeated up to 3 credits. Restricted to: THTR majors.

THTR 222. Theatre Topics**1-3 Credits (1-3)**

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 9 credits.

THTR 249. Running Crew II**1 Credit**

Students work on a technical aspect of a production in a rehearsal and performance environment.

THTR 250. Introduction to Design**3 Credits**

Introduction into our visual world via the language of designers, focusing on collaboration, creative thinking and presentation skills. The varied design professions in theatre and the performing arts will be explored. Restricted to: Required of all THTR Majors majors.

UNIV-UNIVERSITY STUDIES (UNIV)

UNIV 101. Tutorial**1-3 Credits**

Development of specific skills required for college courses, such as note-taking, listening, and test-taking. To be taken in conjunction with a regular designated college course. May be repeated for a maximum of 3 credits. Graded S/U.

UNIV 110. Personal Learning Skills I**1-3 Credits**

Individualized programs for self-improvement in skill areas necessary for academic success in the university environment. Each course to bear an appropriate subtitle. May be repeated up to 3 credits. Graded S/U.

UNIV 112. Academic and Personal Effectiveness**2 Credits**

Learn academic self-analysis skills through the application of study and learning techniques to current course demands. Exposure to a variety of topics which enhance university and life-long learning.

UNIV 113. Speed Reading**1 Credit**

Introduction to strategies and techniques for increasing reading rate and comprehension related to academic areas.

UNIV 114. Financial Literacy Money Matters**2 Credits**

This course will cover a variety of financial literacy topics ranging from budgeting to student loan repayment. This course is designed to assist students in becoming more financially literate. Restricted to Las Cruces campus only.

UNIV 115. Transition from Military to University**2 Credits**

Making a positive transition from military to civilian life is key to success. This course will cover a variety of topics ranging from time management to critical thinking. This course is designed to assist military and veteran students in becoming more effective learners through self-awareness, effectiveness study & learning strategies, and interpersonal skills. Skills and techniques for managing military to civilian readjustment transition issues are discussed and examined. Restricted to Las Cruces campus only.

UNIV 116. Preparing for Cooperative Education & Internship **1 Credit**

The Cooperative Education Course provides students with a comprehensive overview of career-related topics designed to assist with securing Cooperative Education and Internship employment. Students learn about philosophies and approaches to resumes, cover letters, interviewing, job searching, networking, and professionalism. A primary focus of the course is on experiential learning where students have opportunities to practice and implement course concepts including interviewing, networking, job searching, and document creation. In addition to exploring topics related to Cooperative Education and Internship, the course is designed to provide students with tools and strategies for successfully navigating the transition from student to employee. S/U Grading (S/U, Audit). Restricted to Las Cruces campus only.

UNIV 117. Diversity at the University **1 Credit**

In this course students will engage in discussions about diversity at the university, what it means in today's society and local community, and build on its complexity at NMSU. S/U Grading (S/U, Audit). Restricted to Las Cruces campus only.

UNIV 118. Career Explorations and Planning **1 Credit**

This course is designed to increase the likelihood that individuals will successfully navigate the challenges they face when making college major and related career choices. Restricted to Las Cruces campus only.

UNIV 150. The Freshman Year Experience **3 Credits**

An introduction to the university and its resources; emphasis on development of academic and personal skills that enable freshmen to become successful learners. Restricted to: Main campus only.
Prerequisite(s): Freshman Standing Only.

UNIV 161. NMSU Gospel Choir **1 Credit**

Students will gain performance experience and exposure to urban contemporary gospel music. Open to all majors. May be taken for unlimited credit. Restricted to: Main campus only.

W S-WOMEN'S STUDIES (W S)

W S 201G. Introduction to Women s Studies **3 Credits**

Analysis of the status of women in society today and history and consequences of gender stratification and inequality from the perspectives of sociology, anthropology, psychology, political science, and other sciences.

W S 202G. Representing Women Across Cultures **3 Credits**

Historical and critical examination of women's contributions to the humanities, with emphasis on the issues of representation that have contributed to exclusion and marginalization of women and their achievements. Crosslisted with: HON 218

W S 273. Sex and Gender **3 Credits**

Same as SOC 273.

WATR-WATER UTILITIES (WATR)

WATR 120. Introduction to Water Systems **3 Credits**

Introduction to and theory of groundwater sources, production, treatment, and distribution.

WATR 130. Wastewater Collection and Basic Treatment Systems **3 Credits**

Introduction to wastewater characteristics, collection, and basic treatment operations.

WATR 140. Applied Water and Wastewater Math I **3 Credits**

Introduction to basic water and wastewater mathematics, flows through distribution networks and collection systems, and fundamentals of flow measurement.

Prerequisite: CCDM 114N 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 165. Backflow Prevention **3 Credits (2+2P)**

Theory of operation of backflow prevention devices and their application. Backflow devices including double check, reduced pressure, and pressure vacuum breakers will be tested for proper operation.

Prerequisites: WATR 120 and WATR 140, or consent of instructor.

WATR 175. Programmable Logic Controllers **2 Credits**

This course will introduce students to electrical safety, theory, and the function, operations, programming and troubleshooting of the PLC controlling common electrical components utilized in control circuits associated with the water and wastewater industry. Restricted to: Community Colleges only.

WATR 180. Water Chemistry **3 Credits**

Basic chemistry with applications to water and wastewater analysis.
Prerequisite: CCDM 114N or consent of instructor.

WATR 182. Water Chemistry Analysis **1 Credit**

Beginning water and wastewater laboratory analysis including gravimetric, volumetric, and quality control techniques.

Prerequisite: CCDM 114N or equivalent or consent of instructor.

WATR 190. Water and Wastewater Microbiology **3 Credits**

Overview of microorganisms associated with water and wastewater. Growth and reproduction, energy production, and methods of counting.

Prerequisite: WATR 130, WATR 180, or consent of instructor.

WATR 192. Water and Wastewater Microbiological Analysis **1 Credit**

Introduction to water and wastewater treatment operational tests such as BODs, solids testing, activated sludge control tests, use of microscope, and bacteriological techniques.

Prerequisites: WATR 130 and WATR 182, or consent of instructor.

WATR 200. Internship**3-5 Credits**

On-the-job training/work experience with municipalities or industries, working in water or wastewater treatment plants, high purity water plants, industrial waste plants, distribution systems, or wastewater collection systems. May be repeated up to 5 credits. Consent of Instructor required. Restricted to: Water Technology majors. S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

WATR 220. Water Treatment Systems**3 Credits**

Theory of water systems operation including surface water treatment, fluoridation, sodium zeolite softening, corrosion control, iron removal, various filtration methods, and overview of SDWA.

Prerequisites: WATR 180 and WATR 182 or consent of instructor.

WATR 222. Water Systems Operation**1 Credit**

Operations of various water treatment systems including surface water treatment, sodium zeolite softeners, and various filtration methods.

Prerequisite: WATR 220 or consent of instructor.

WATR 230. Advanced Wastewater Treatment**4 Credits**

Calculations and operations involved in wastewater and water reclamation plants.

Prerequisites: WATR 140, WATR 190, and WATR 192, or consent of instructor.

WATR 232. Wastewater Systems Operations**1 Credit**

Operation of pretreatment, primary, and biological treatment units.

Prerequisite: WATR 230 or consent of instructor.

WATR 240. Advanced Water and Wastewater Math II**3 Credits (2+2P)**

Advanced water and wastewater mathematics. Flow measurement. Systems head and pump curves.

Prerequisites: WATR 140.

WATR 250. Municipal Systems Management**4 Credits**

Management of water utility systems including laws, finance, records, and safety.

Prerequisites: WATR 120, WATR 130.

WATR 255. Special Individualized Problems in Water Technology**1-4 Credits**

Individual studies in areas directly related to water technology.

Prerequisite: consent of instructor.

WATR 270. Special Topics**1-4 Credits**

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

WATR 275. Certification Review**3 Credits**

Review of water and wastewater plant operations and laws in preparation for state certification exams.

Prerequisites: WATR 220, WATR 230, and WATR 240.

WATR 285. High Purity Water Treatment Systems**3 Credits**

Principles of high purity water production including microfiltration, ultra-filtration, reverse osmosis, and deionization.

Prerequisite: WATR 220.

WATR 287. Advanced Water Chemistry Analysis**3 Credits**

Sampling techniques, analysis, and evaluation of potable water contaminants using gravimetric, volumetric, spectrophotometric, and other instrumentation methods.

Prerequisite: WATR 285 or consent of instructor.

WATR 290. Advanced Wastewater Microbiology and Chemistry**3 Credits**

Covers NPDES permits and DMR calculations and reporting; 503 sludge regs, including pathogen and vector attraction reduction and pollutants; wetlands, composting, and wastewater treatment ponds microbiology; activated sludge bulking and foaming microbiology and treatment; and use of selector to remove nutrients and prevent the growth of filamentous bacteria.

Prerequisite: WATR 190, WATR 192.

WATR 292. Advanced Wastewater Analysis**3 Credits**

Covers sampling techniques, analysis, and evaluation of wastewater contaminants using gravimetric, volumetric, spectrophotometric, and other instrumentation methods.

Prerequisite: WATR 190 and WATR 192.

WELD-WELDING TECHNOLOGY (WELD)

WELD 100. Structural Welding I**6 Credits (3+6P)**

Development of basic skills in SMAW, OFC, and OFW in accordance with the AWS entry-level welder program.

WELD 101. Fundamentals of Welding**3 Credits**

Set-up and adjustment of ARC and oxyacetylene equipment. Welding safety procedures and terminology. Skill development in laying weld beads with various patterns, positions, and processes.

WELD 102. Welding Fundamentals**3 Credits (2+2P)**

Survey of welding and cutting processes for nonmajors. Classroom instruction and laboratory work with OFC/OFW, SMAW, GMAW, FCAW, and plasma arc cutting.

WELD 105. Introduction to Welding**3 Credits**

Welding practices, procedures, and terminology. Welding safety, equipment types, electrode types in usage, joint design and testing procedures.

WELD 110. Blueprint Reading (Welding)**3 Credits**

Interpretation of prints related to welding. Emphasis on AWS standard symbols for welding, brazing, and nondestructive examination.

WELD 112. Professional Development and Leadership**1 Credit**

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing or participating in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: WELD majors. S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

WELD 115. Structural Welding II**6 Credits (3+6P)**

Continuation of WELD 100. Emphasis on AWS entry and advanced level welder skills with SMAW, including all-position welding with mild and stainless steel electrodes. Plasma arc and air-carbon arc cutting, metallurgy, heat treatment, and weld defects.

Prerequisite: WELD 100.

WELD 120. Basic Metallurgy**3 Credits**

Properties of ferrous and nonferrous materials. Service conditions and heat treatment of metals related to welding trade.

Prerequisites: WELD 100 or consent of instructor.

WELD 125. Introduction to Pipe Welding**3 Credits (2+2P)**

Pipe fit-up and welding techniques for pipe fitting and pipe weld joint using SMAW, GMAW, GTAW, and FCAW, 2G welding of pipe. Restricted to: Community Colleges only.

Prerequisite(s): WELD 100, WELD 130, and WELD 140, or consent of instructor.

WELD 126. Industrial Pipe Welding**3 Credits**

Enhancement of WELD 125. Development of more advanced pipe welding skills.

Prerequisites: WELD 110, WELD 130 and WELD 140.

Corequisite: WELD 125.

WELD 130. Introduction to GMAW MIG**3 Credits (2+2P)**

Development of basic skills with gas metal arc welding (MIG) in accordance with AWS entry-level welder objectives. Wire electrodes, shielding/purge gases, and modes of metal transfer.

WELD 140. Introduction to GTAW TIG**3 Credits (2+2P)**

Development for basic skills with gas tungsten arc welding (TIG) in accordance with AWS entry/advanced welder objectives. Welding mild steel, tungsten electrode preparation, filler wire selection, and equipment set-up.

WELD 150. Pipe Welding II**3 Credits (2+2P)**

Continuation of WELD 125; with fillet and groove welded joints in a horizontal fixed and 45-degree fixed positions (5-F, 5-G, 6-F, 6-G).

Prerequisite: WELD 125.

WELD 151. Industrial Pipe Welding II**3 Credits**

Enhancement of WELD 150. Development of more advanced pipe welding skills. Emphasis on industry driven test.

Prerequisites: WELD 125 and WELD 126.

Corequisite: WELD 150.

WELD 160. Introduction to SAW and FCAW**3 Credits (2+2P)**

Submerged arc and flux-cored arc welding. Demonstrations and practice with machine travel submerged arc welding (SAW), flux-cored arc welding (FCAW-G, FCAW-S) on mild steel plate and pipe. Restricted to: Community Colleges only.

WELD 170. Welded Fabrication**3 Credits (1+4P)**

Development of fabrication skills including basic layout, measuring, and utilization of various welding processes including out-of-position welding. Use of common shop tools.

Prerequisites: WELD 100, WELD 110, WELD 130, and OETS 104 or OETS 118.

WELD 180. GTAW II**3 Credits (2+2P)**

Continuation of WELD 140. Development of more advanced GTAW skills. Emphasis on pipe welding with mild steel, stainless steel, and aluminum.

Prerequisite: WELD 140 or consent of instructor.

WELD 190. Welded Art**3 Credits (1+4P)**

Students explore the possibilities of welded art in the form of sculpture, jewelry, furniture and as a framework to support other art media. Offered as an elective for students who wish to create art using welding.

Prerequisite: WELD 102 or consent of instructor.

WELD 205. Welding Equipment Maintenance**3 Credits (2+2P)**

Hands-on experience in the maintenance and repair of welding equipment, including welding machines and associate shop equipment, as well as the development of preventative maintenance programs. Basic safety, including MSDS and Right-to-Know will be introduced. Restricted to: Community Colleges only.

Prerequisite(s): WELD 100, WELD 130, WELD 140, WELD 160.

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 230. Weld Testing**3 Credits (2+2P)**

Covers destructive and nondestructive examination methods used to test welds. Tensile, compression, bend, hardness, impact, visual, dye-penetrant, magnetic particle, ultrasound, and radiographic methods of testing/examination. Restricted to: Community Colleges only.

Prerequisite(s): WELD 100, WELD 130, WELD 140, WELD 211, and OETS 104, or 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.

STUDENT SOCIAL CODE OF CONDUCT

Part I: Introduction and Overview

This Student Social Code of Conduct, here after referred to as code, is adopted by the authority outlined in New Mexico State University Policy 3.101. It

- sets forth the rights and responsibilities of NMSU students;
- outlines the standards for social conduct;
- provides the types of interim measure and sanctions which may be imposed for violation of the code;
- provides a prompt and fair fact finding hearing, as well as an objective review process if students elect to appeal the outcome of the fact finding hearing.

The code consists of the following Parts:

- **Part I:** Introduction and Overview to the Student Social Code of Conduct
- **Part II:** Jurisdiction
- **Part III:** Standards for Student Social Conduct
- **Part IV:** Interim Measures Pending Fact Finding/Sanction Hearing; Range of Potential Sanctions for Substantiated Misconduct
- **Part V:** Students' Rights and Responsibilities; Student Discipline and Appeal Hearing Processes
- **Part VI:** Definitions

Part II: Jurisdiction

1. **On-campus:** The code applies to conduct which takes place on university premises.
2. **Off-Campus Conduct:** The code generally is not applied to conduct which occurs off campus, but the university retains the right to act in cases where there is a sufficient connection between the off campus conduct and the university. Disciplinary action imposed by NMSU may proceed, and be in addition to, any penalty that might be imposed by an off-campus authority. Examples of when off campus conduct will result in action under the code include but are not limited to the following:
 - a. Conduct at university sponsored events;
 - b. Conduct which reasonably may present a danger or threat to the health or safety of the student or others;
 - c. Conduct which significantly impinges upon the rights, property or achievements of self or others or significantly breaches the peace or causes social disorder, or
 - d. Conduct detrimental to the educational mission or interests of the university.
3. **Social Media:** As a general rule, personal use of non-NMSU social media is not governed by this code. Students should be aware, however, that online postings such as blogs, web postings, chats and social networking sites are in the public sphere and are not private unless password protected, and even then may be shared in unpredictable ways and with unintended audiences. In cases where personal and academic or professional boundaries are blurred, students should exercise discretion. Exceptions to the general rule may be made when actions or statements over social media have a sufficient connection to the university. These exceptions apply when:
 - a. the use of an electronic medium involves the use of NMSU resources (e.g. email account, NMSU electronic media, use of NMSU work time) inconsistent with the policies and procedures applicable to such use;
 - b. the use of an electronic medium involves a true threat, defined as a threat whereas a reasonable person would interpret as a serious expression of intent to inflict harm upon specific individuals;
 - c. the use of an electronic medium posts material considered to be forms of illegal bullying, discriminatory or other severe and pervasive harassment, or stalking, in violation of the code or the law;
 - d. the use of an electronic medium is used to defame someone, post unlawful materials, or otherwise causes a material and unreasonable interference with the education, research public service and outreach missions of the university; or
 - e. the use of the electronic medium provides evidence of a potential violation of the code warranting investigation and potential disciplinary action.
4. **Court or Administrative Proceedings Outside of the University:** If a charged student/student organization wishes to have the hearing postponed because there is pending or possible civil or criminal litigation which the student(s) feels might be prejudice by the findings of the hearing, such postponement may be granted at the discretion of the appropriate administrator, provided that the student/student organization agrees to accept conduct probation or suspension as an interim sanction. Such probation, suspension or ban from campus will be determined and activated by the appropriate administrator and will remain in effect until a hearing is held, either at the request of the student, or upon notice to the student/student organization, at the request of the appropriate administrator, should it be decided that the postponement of the hearing is no longer appropriate.
5. **Determination of Hearing Officer:** Location of the incident shall determine who will serve as the Hearing Officer for cases which may involve the violation of the code, unless there is a challenge to impartiality or as provided in the following section (Students Holding Multiple Roles).
6. **Students Holding Multiple Roles:** Students often serve in various capacities on campus. This code applies in all instances. Depending upon the circumstances, a student may be held to higher or additional standards by other authorities on campus (e.g. Housing, Intercollegiate Athletics), which means that a student may be subject to more than one set of rules and consequences for the same action.
 - a. **Community Colleges:** Violations of the code occurring on property overseen by a specific Community College within the NMSU system will be heard by a Hearing Officer designated by that community college. The provisions of this code will be applied at the community colleges.
 - b. **On-Campus Housing Students:** Violations of the code or campus housing rules occurring within campus housing properties or parking lot assigned to on-campus housing units shall be heard by a designated Hearing Officer within the Department of Housing and Residential Life. The fact finding hearing and appeal processes described herein apply to these cases. If the alleged violation involves conduct for which deferred suspension, suspension, dismissal, or expulsion would be the appropriate sanction, then the hearing process will be managed by the Office of the Dean of Students. The Department of Housing

and Residential Life may also request the Office of the Dean of Students to hear a case which may not result in deferred suspension, suspension, dismissal, or expulsion if the appropriate administrator determines there is a conflict of interest or other concern if it were to be heard within Housing and Residential Life.

- c. **Title IX:** Students, faculty, staff who suspect or observe stalking, dating violence, domestic violence, or other conduct involving sexual discrimination, including sexual misconduct or harassment shall be reported immediately to the university's Title IX Coordinator, the Director of the Office of Institutional Equity at: Office: (575) 646-3635; TTY: (575) 646-7802; email: equity@nmsu.edu. Professional staff subject to confidential reporting laws (e.g. licensed mental health counselors and physicians) are not subject to this reporting requirement. The Title IX Coordinator ensures all reported incidents are promptly assessed and investigated in accordance with the protocols outlined in Policy 3.25 of the NMSU Policy Manual. If the investigation substantiates a violation of the code, the Office of Institutional Equity will provide a copy of the investigative report to the appropriate administrator. The appropriate administrator will review and initiate the sanction and hearing process, as well take any additional remedial action, as may be appropriate under the circumstances, consistent with the code and with Title IX.
- d. **Academic Related Conduct:** When a behavior results in the possibility of a violation of the Academic and Social Code of Conduct, the Dean of the college or designee shall work with the appropriate administrator and decide if one or both processes will be used to investigate and determine level of responsibility.
- e. **Employment:** When a student is also a student employee and violates the code while acting in the capacity of employee, then the appropriate administrator shall coordinate with the Office of Employee and Labor Relations regarding student and/or employee discipline issues.
- f. **Athletes:** When a student is also a student athlete and violates the code, the student may go through the process used by the Department of Athletics as well as the code. These two process may take place concurrently and one outcome may or may not affect the outcome of the other process.
- g. **Cadets in ROTC:** When a student is also a cadet in an NMSU ROTC program and violates the code, the student may go through the process used by the appropriate ROTC program, as well as, the code. These two processes may take place concurrently and one outcome may or may not affect the outcome of the other process.
- h. **Dual Credit/Early College High School:** If a dual credit or early college high school student is involved in an incident where a violation of the code may have occurred, NMSU has the right to charge the student for the possible violation and follow the process for investigation, hearing, and determination. The student has the same rights given to all students during this process. The NMSU Hearing Officer shall be determined by the location of the incident.

with the core values applied to all students. The university encourages students, employees, and community members to report to an appropriate administrator or university police all suspected and observed misconduct. Students found responsible for violations of the Code will be subject to disciplinary sanction(s). **See Part IV** (p.) for interim measures and the range of potential sanctions.

1. Integrity: University students exemplify honesty, honor and a respect for the truth in all of their dealings. Behavior that violates this value includes, but is not limited to:

- a. **Falsification:** Knowingly furnishing or possessing false, falsified or forged materials, documents, accounts, records, identification, or financial instruments.
- b. **Unauthorized Access:** Unauthorized access to any university building or unauthorized possession, duplication or use of means of access to any university building or failing to report in a timely manner a lost university identification card or key.
- c. **Collusion:** Action or inaction with another or others to violate the code.
- d. **Election Tampering:** Tampering with the election of any university recognized student organization.
- e. **Taking of Property:** Intentional and unauthorized taking of university property or the personal property of another, including goods, services and other valuables.
- f. **Stolen Property:** Knowingly taking or maintaining possession of stolen property.

2. Community: University students build and enhance their community. Behavior that violates this value includes, but is not limited to:

- a. **Disruptive Behavior:** Substantial disruption of university operations including obstruction of teaching, research, administration, other university activities, or authorized non-university activities which occur on campus.
- b. **Rioting:** Causing, inciting, or participating in any disturbance that presents a clear and present danger to self or others, causes physical harm to others, or damage or destruction of property.
- c. **Unauthorized Entry:** Misuse of access privileges to university premises or unauthorized entry to or use of buildings, including trespassing, propping or unauthorized use of alarmed doors for entry into or exit from university buildings.
- d. **Trademark:** Unauthorized use, including misuse, of university or organizational names and images.
- e. **Damage and Destruction:** Intentional, reckless or unauthorized damage to or destruction of university property or the personal property of another.
- f. **ICT and Acceptable Use:** Violating the university Acceptable Use and Computing Policy (policy 2.35.1.1.1), found online at: manual.nmsu.edu (<http://manual.nmsu.edu>).
- g. **Gambling:** Gambling as prohibited by the laws of the State of New Mexico.
- h. **Weapons and Other Explosive Materials/Devices:** Possession, use, or distribution of explosives (including fireworks and ammunition), guns (including air, BB, paintball, facsimile weapons, and pellet guns), or other weapons or dangerous objects such as arrows, axes, machetes, nun chucks, throwing stars, or knives with a blade longer than three (3) inches. Any object intended to be used as a weapon.
- i. **Tobacco:** Smoking or tobacco use in any area of campus where smoking or tobacco use is prohibited.

Part III: Standards for Student Social Conduct

Core Values and Behavioral Expectations

The university considers the examples described under each of the core values listed below to be inappropriate for members of the university community. The expectations for conduct are consistent

- j. Fire Safety: Violation of local, state, federal or campus fire policies including, but not limited to:
 - i Intentionally or recklessly causing a fire which damages university or personal property or which causes injury;
 - ii Failure to evacuate a university controlled building during a fire alarm;
 - iii Improper use of university fire safety equipment; or
 - iv Tampering with or improperly engaging a fire alarm or fire detection/control equipment while on university property.
 - k. Ineligible Pledging or Association: Pledging or associating with a student organization without having met eligibility requirements established by the university.
 - l. Animal: Animals, with the exception of service and emotional support animals, are not allowed on campus except as may be permitted by university policy; animal owners and handlers shall abide by applicable local laws relating to the care and control of animals. See Assistive, Service, and Companion Animals on University Premises (policy 3.06).
 - m. Wheeled Devices: Skateboards, roller blades, roller skates, bicycles and similar wheeled devices are not permitted to be ridden inside university buildings, residence halls or on athletic fields or courts. Additionally, skateboards and other wheeled items may not be ridden on rails, curbs, benches, or any such fixtures that may be damaged by these activities, and individuals may be liable for damage to university property caused by these activities.
3. **Social Justice: Student recognizes that respecting the dignity of every person is essential for creating and sustaining a flourishing university community. They understand and appreciate how their decisions and actions impact others and are just and equitable in their treatment of all members of the community. They act to discourage and challenge those whose actions may be harmful to or diminish the worth of others.** Conduct that violates this value includes, but is not limited to:
- a. Discrimination: Any act or failure to act that is based upon an individual or group's actual or perceived status related to age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, serious medical condition, sex, sexual orientation, spousal affiliation, or protected veteran status that is sufficiently severe that it limits or denies the ability to participate in or benefit from the university's educational program or activities.
 - b. Harassment: Any unwelcome conduct based on actual or perceived status including: age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, serious medical condition, sex, sexual orientation, spousal affiliation, or protected veteran status. Any unwelcome conduct should be reported to campus officials, who will act to remedy and resolve reported incidents on behalf of the victim/complainant and community.
 - i Hostile Environment: Sanctions can and will be imposed for the creation of a hostile environment when harassment is sufficiently severe, pervasive or persistent and objectively offensive that it unreasonably interferes with, limits, or denies the ability to participate in or benefit from NMSU's educational or employment program or activities.
 - ii Bullying: Sanctions can and will be imposed for bullying when harassment is sufficiently severe, pervasive or persistent and objectively abusive that it unreasonably interferes with, limits, or denies the ability to participate in or benefit from NMSU's educational or employment program or activities.
 - c. Retaliatory Discrimination or Harassment: Any intentional, adverse action taken by any responding individual or allied third party, absent legitimate nondiscriminatory purposes, against a participant (or supporter of a participant) in a civil rights grievance proceeding or other protected activity.
 - d. Unacceptable Bystander Behavior:
 - i Complicity with or failure of any student to appropriately address known or obvious violations of the code.
 - ii Complicity with or failure of any organized group to appropriately address known or obvious violations of the code or law by its members.
 - e. Abuse of Conduct Process: Abuse or interference with, or failure to comply in, university processes including conduct and academic integrity hearings including, but not limited to:
 - i Falsification, distortion, or misrepresentation of information;
 - ii Failure to provide, destroying or concealing information during an investigation or an alleged policy violation;
 - iii Attempting to discourage an individual's proper participation in, or use of, the campus conduct system;
 - iv Harassment (verbal or physical) or intimidation of a member of a campus conduct body prior to, during, or following a campus conduct proceeding;
 - v Failure to comply with the sanction(s) imposed by the campus conduct system; or
 - vi Influencing, or attempting to influence, another person to commit an abuse of the campus conduct system.
4. **Respect: University students show positive regard for each other and for the community.** Behavior that violates this value includes, but is not limited to:
- a. Harm to Persons: Intentionally or recklessly causing physical harm or endangering the health or safety of any person.
 - b. Threatening Behavior:
 - i Threat: Written or verbal conduct that causes a reasonable expectation of injury to the health or safety of any person or damage to any property.
 - ii Intimidation: Intimidation defined as implied threats or acts that cause a reasonable fear of harm in another.
 - c. Bullying or Cyberbullying: Bullying or cyberbullying are repeated or severe aggressive behaviors that intimidate or intentionally harm or control another person physically or emotionally, and are not protected by freedom of expression.
 - d. Hazing: Defined as an act that endangers the mental or physical health or safety of a student, or that destroys or removes public or private property, for the purpose of initiation, admission into, affiliation with, or as a condition for continued membership in a group or organization. Participation or cooperation by the person(s) being hazed does not excuse the violation. Failing to intervene may also violate this policy.
 - e. Intimate Partner/Relationship Violence: Violence or abuse by a person in an intimate relationship with another.
 - f. Stalking: Stalking is a course of unwelcome conduct directed at a specific person that would cause the person to reasonably fear for their own safety.

- g. Sexual Misconduct: Includes, but is not limited to, sexual harassment, non-consensual sexual conduct, non-consensual sexual intercourse, or sexual exploitation.
 - h. Public Exposure: Includes deliberately and publicly exposing one's intimate body parts, public urination, defecation, and public sex acts.
5. **Responsibility: University students are given and accept a high level of responsibility to self, to others and to the community.** Behavior that violates this value includes, but not limited to:
- a. Alcohol: Use, possession, misuse or distribution of alcoholic beverages except as expressly permitted by law and university policy.
 - b. Drugs: Use, possession, sale or distribution of illegal drugs and other controlled substances or drug paraphernalia except as expressly permitted by law and university policy.
 - c. Prescription Medications: Abuse, misuse, sale, or distribution of prescription or over-the-counter medication.
 - d. Failure to Comply: Failure to comply with the reasonable directives of university officials or law enforcement officers during the performance of their duties or failure to properly identify oneself to those persons when requested to do so.
 - e. Financial Responsibilities: Failure to promptly meet financial responsibilities to the institution, including, but not limited to: knowingly passing a worthless check or money order in payment to the institution or to an official of the institution acting in an official capacity.
 - f. Health and Safety: Creation of health or safety hazards including, but limited to: dangerous pranks, hanging out of or climbing from/on/in windows, balconies, roofs.
 - g. Other Policies: Violating University, college, departmental, programmatic policies or rules, including all Residence Hall rules and regulations.
 - h. Violations of Law: Evidence of violation of local, state, or federal laws, when substantiated through the university's conduct process.

interim measures, including requests for special arrangements during the period of interim measures.

- c. If a student's enrollment status is changed as a result of an interim measure, and the student is subsequently found not responsible for the violation, the university may:
 - i. Correct any record of the change in enrollment status in the student's permanent records and other reports in a manner compliant with State and Federal laws.
 - ii. Refund to the student, at a minimum, a pro rate of any tuition/fees and other university specific fees and charges as appropriate due to the temporary change in enrollment status and in a manner consistent with the university policy and procedures.

2. Range of Interim Measures

- a. **Cease and Desist:** University officials and faculty may, under appropriate circumstances, order a student to stop an activity considered disruptive to the University.
- b. **Interim Suspension:** The Dean of Students or Vice-President of Services/Success may temporarily suspend a student or student organization when it is determined that a student's/student organization's presence adversely affects the health, safety, or welfare of the university community or a member of the university community.
- c. **Restrictions on Activities:** The Dean of Students or Vice-President of Services/Success may restrict a student's/student organization's activities when it is determined that the health, safety, or welfare of a student or members of the university community is at risk. Restrictions on activities may include, but are not limited to: registering for or attending class; accessing or contacting certain individuals (no contact order); accessing university property, facilities, resources or equipment; participating in university activities, organizations or student activities.
- d. **Restrictions by Other Authorities:** Interim measures may also be taken by other authorities based on the specific rules or requirements relating to such other authorities (e.g. academic and co-curricular programs, campus housing and intercollegiate athletics etc.)

3. Range of Potential Sanctions for Substantiated Misconduct

When an investigation substantiates, by a preponderance of the evidence, that a student/student organization, the student/student organization will be sanctioned appropriately. The sanction is intended to educate the student/student organization and to deter future misconduct. Progressive discipline is appropriate for lesser violations, however, for serious misconduct, progressive discipline is not required; the sanction should be commensurate with the seriousness of the violation. The following will be considered when determining the level of discipline (sanction): prior warnings or discipline for similar misconduct, if any; the risk of potential harm created; actual personal injury or property damage which resulted; damage to the university community, reputation or interests. One or more of the sanctions listed below may be imposed by the appropriate administrator:

- a. **Documented Verbal Warning:** This sanction is the lowest level of sanction, designed to "warn" a student that if the behavior is not changed, more serious discipline or sanctions will result.

Part IV: Interim Measures Pending Fact Finding/Sanction Hearing; Range of Potential Sanctions for Substantiated Misconduct

1. Interim Administrative Action Pending Investigation or Disciplinary Hearing

- a. Interim measures may be imposed on a student or student organization, at the discretion of the Dean of Students or appropriate community college vice president, if the student is a community college student. Notice of imposition of an interim measure shall be provided to the student or student organization in writing.
- b. The student or student organization may appeal the imposition of an interim measure by submitting a written request for a meeting to review the matter to the Vice President of Student Affairs and Enrollment Management if the decision was made by the Dean of Students or the Community College President if the decision is made by a Vice President for Student Services/Success. If requested, the review meeting will be conducted within five (5) days of the receipt of the written request. The scope of the review meeting will be limited solely to the issue of the imposition of the

b. **Written Warning:** This type of sanction is designed for less serious violations of the code, for which progressive warnings are likely to be effective. The student/student organization is issued a written warning notifying the student/student organization that the behavior did not meet university standards.

c. **Disciplinary Probation:** The placement of a student/student organization on disciplinary probation, for a certain term or indefinitely, indicates that the misconduct was a serious violation of university standards. Additional substantiated violations of the Code, whether similar in nature or not, which occurs during a probationary period will result in more serious sanctions. Probationary status also may result in restrictions being placed on a student's/student organization's activities. Examples of such restrictions include, but are not limited to: restriction of privilege to: (a.) participate in student activities or in student organizations, (b.) represent university on athletic teams, or in other leadership positions; (c.) have access to university housing facilities or other areas on campus; (d.) have use of university resources and/or equipment; or (e.) have contact with specified person(s). A student who has been placed on indefinite disciplinary probation, or whose probation has been indefinitely noted on the transcript, may petition to have the probation lifted or the notation removed from the transcript. This petition will not be accepted if submitted prior to one calendar year from the date the probation began. Students must petition to the Dean of Students or Vice-President of Student Services/Success to have the removal of probationary status removed. The decision of the administrator is final.

d. **Loss of University Privileges:** This sanction involves the temporary or permanent withdrawal of university privileges, including but not limited to: use of university facilities, resources, equipment, attendances at athletic functions, student union, library use, parking privilege, university computer usage, and/or residence hall or other visitation.

e. **Restitution:** This type of sanction requires the student/student organization to pay for all or part of damages (personal injury or property) they caused or contributed to.

f. **Community/University Service:** A student/student organization is required to complete a specified number of hours of service at one of the University's campuses, or in furtherance of the University's interests.

g. **Educational Requirements:** This sanction may be used for lesser violations or in conjunction with other sanctions. A student/student organization may be required to complete a specified educational sanction related to the violation committed. Such educational requirements may include, but are not limited to, completion of a seminar, report, alcohol or drug assessment, presentations, and/or counseling.

h. **Change or Revocation of Housing Assignment:** This sanction may be used when a violation of the code also constitutes a breach of the license agreement entered into by the student, or as a remedy to address claims of discrimination, harassment, bullying, stalking or other inability to get along with neighbors. The student/student organization may be required to

- relocate to a new university housing assignment;
- leave university owned housing for a specified period of time; or
- leave university owned housing permanently.

i. **No Contact Order:** A directive informing the student/student organization that they are not permitted to have any contact, direct or indirect, with one or more designated persons or group(s) through any means, including personal contact, email, telephonic, electronic or third parties. No contact order directives may be issued as a sanction or may also be issued by the appropriate administrator under circumstances which do not involve student/student organization discipline.

j. **Deferred Suspension:** A status given to a student for a defined period of time, not to exceed one year, in which the student may stay enrolled in classes but may not formally represent NMSU in any manner such as on athletic teams, intramural teams, student leadership roles, or participate in student organizations.

k. **Suspension:** A student who is suspended shall not be enrolled and is required to leave the University for a specified period of time. The specified period of time cannot be longer than one calendar year. The student must comply with all sanctions and complete all requirements prior to re-admission. During the suspension period the student may not visit or come onto any NMSU premises without specified written permission of the Dean of Students or appropriate Vice President for Student Services/Success. Credits taken at another institution of higher education may not be accepted as transfer credits when or if the student returns to NMSU.

A student organization who is placed on suspension shall not be recognized as a chartered student organization and therefore, may not receive the recognition, rights and privileges of a chartered student organization for a specified period of time. The specified period of time cannot be longer than one calendar year. The student organization must comply with all sanctions and complete all requirements prior to re-chartering.

l. **Dismissal:** A student who is dismissed is required to leave the university for an indefinite period of time. Students may not reenroll nor reenter university premises for a minimum of one calendar year, and then, only by petitioning and obtaining consent from the Dean of Students or appropriate Vice President for Student Services/Success. A permanent notation of dismissal is placed on the student's transcript. During the dismissal period, the student may not visit or come onto NMSU premises without specific written permission from the Dean of Students or appropriate Vice President for Student Services/Success. Credits taken at another institution of higher education may not be accepted as transfer credits when or if the student returns to NMSU.

A student organization placed on dismissal shall not be recognized as a chartered student organization and therefore, may not receive the recognition, rights and privileges of a chartered student organization for an unspecified period of time. Student organizations may not re-charter for a minimum of one calendar year, and only then, by petitioning and obtaining the consent of the Dean of Students or appropriate Vice President for Student Services/Success. The student organization must comply with all sanctions and complete all requirements prior to re-chartering.

m. **Expulsion:** Expulsion is used as a sanction only in the most serious cases of misconduct. A student who is expelled is permanently deprived of the privilege to continue at the university in any capacity. The student may not visit or come onto any NMSU premises or NMSU sponsored events without specific written

permission of the Dean of Students or appropriate Vice President for Student Services/Success.

A student organization who is given the sanction of expulsion is permanently deprived of the privileges to continue as a chartered student organization at NMSU. Therefore, the student organization loses all recognition, rights and privileges given to chartered student organizations.

n. **Denial of Further Registration and/or Credits:** Denial of the privilege to reenroll or invalidation of credits earned is a sanction available when a student has been found to have made false, fraudulent or materially incomplete statements on official university records. Examples of such records include but are not limited to: application for admission, residence affidavit, and application for graduation.

o. **Withholding Degrees:** Withholding issuance of a degree, diploma, certificate or official transcript pending compliance with university policies or pending completion of the processes set forth in this code, including but not limited to completion of all elements of a sanction.

Part V: Students' Rights and Responsibilities; Student Discipline and Appeal Hearing Processes

1. Student Rights:

- a. To be accompanied by an advocate at meetings or hearings related to charges.
- b. To be notified of alleged facts and evidence supporting the charge(s) at least five (5) days prior to any scheduled disciplinary hearing.
- c. To examine evidence the university has concerning the incident.
- d. To receive notice of any witnesses the university plans to call to testify at the hearing.
- e. To participate in a fact finding hearing with an impartial hearing officer: A student party to the proceedings may challenge the impartiality of a designated hearing or appeal officer. The challenged hearing or appeal officer may elect voluntary recusal. If the challenged official does not voluntarily recuse, the Chief Judicial Officer shall determine the validity of the challenge and if applicable, appoint an alternate hearing officer.
- f. To call witnesses to present relevant testimony on behalf of the student, as determined by Hearing Officer.
- g. To question witnesses who are called to present testimony in support of the charge(s).
- h. To choose not to answer questions during the investigative process and to not testify at the disciplinary hearing, without the student's silence being treated as evidence of being responsible for violating the Code.
- i. The right to appeal the decision of the disciplinary Hearing Officer to a higher authority.

2. Student Responsibilities:

- a. Charged students, as well as students who are witnesses, shall be honest and cooperative with university officials during investigative and hearing/appeal processes. This responsibility is subject to a student's constitutional right to remain silent in order to not implicate oneself in a violation or crime. If a student exercises the right to not testify or chooses to not participate at

all in the proceedings, the Hearing Officer may choose to proceed based upon the evidence gathered from other sources.

- b. A charged student electing to contest the charges shall, at least three (3) days in advance of the hearing, provide the Hearing Officer with a list indicating the witnesses who the student intends to call upon to testify at the hearing, and shall also submit copies of the documentation or identify other evidence, if any, in support of the student's position relative to the charge.
 - c. If the student is found ultimately responsible for violating the code, and a sanction is imposed, the student shall complete all sanctions(s) required in the final decision and report such completion to the Office of the Dean of Students.
3. **Students' Rights when Title IX is Implicated:** Victims/complainants, as defined in this policy, especially with regard to alleged violations of Title IX (sexual discrimination, including sexual misconduct and harassment, sexual assault/violence, domestic violence, dating violence, stalking and other crimes of violence), have the right to special consideration and assistance during the investigation, hearing and resolution phases of the student disciplinary process. In order to ensure fairness to all parties in the proceedings, the student charged is entitled to request the same consideration:
- a. **Questioning During Investigation and Hearing:** A victim/complainant or student charged may provide a list of questions and request that they be asked during the investigative or hearing stages of the student discipline processes. In order to be considered, the questions must be submitted in writing to the Hearing Officer, as appropriate, and at least three (3) days in advance of any scheduled disciplinary hearing.
 - b. **Hearing Modifications:** A victim/complainant or student charged may request reasonable alternate arrangements relating to participation in the disciplinary hearing, such as submission of questions in written form rather than verbal direct questioning, or to be allowed to provide information from a separate location. As long as the integrity of the hearing is not compromised, and the parties and the hearing official are able to see and communicate with each witness (including the victim/complainant and the accused), reasonable requests will be granted.
 - c. **Past Behavior:** A victim/complainant or student charged has a right to have past unrelated behavior excluded from the disciplinary hearing. The issue of whether past behavior is related or relevant will be determined by the Hearing Officer.
 - d. **Victim Impact Statement:** If the charged student(s) is found responsible, the victim/complainant has a right to submit a victim impact statement to the Hearing Officer for consideration at the sanctioning phase only. The statement may include a description of how the victim was impacted by the conduct violation and may include recommendations for sanctions, penalties, or restitution. However, the Hearing Officer is not bound by these recommendations.
 - e. **Notification:** In cases involving arson, assault, burglary, criminal homicide, destruction/damage/vandalism of property, dating violence, domestic violence, kidnapping, robbery, forcible sex offenses, non-forcible sex offense, stalking or any other crime or attempted crime of violence, the victim/complainant has a right to be notified by the Office of the Dean of Students of the final results of the investigation and disciplinary proceedings conducted with respect to the alleged offense. The notification of final results will include
 - i the name of the charged student(s);
 - ii the violation with which the student was charged;

- iii whether the student was found “responsible” or “not responsible”; and
- iv any sanction(s) imposed, to the extent that the sanction may affect the victim/complainant.

f. **Appeal:** As is the case for all violations of the code, in incidents involving violations of Title IX (sexual discrimination, including sexual misconduct and harassment, sexual assault/violence, domestic violence, dating violence, stalking and other crimes of violence); the victim/complainant and the charged student each have the right to appeal the outcome of the fact finding/sanction hearing, as outlined below in this Part V, Section 5.

4. Investigation and Educational Conference

a. Determination of Charges

- i Alleged violations of the code may be reported to the appropriate administrator by any member of the community including but not limited to:
 - 1. university departments,
 - 2. university police,
 - 3. faculty, staff, or students or
 - 4. third parties.
- ii The appropriate administrator, or designee, will review the information to determine if a student/student organization will be charged with violating the code.
- iii The appropriate administrator, or designee, may not charge a student/student organization with a violation of the Code more than one year after the date the conduct occurred or was discovered, whichever is later.

b. Notification of Charges and Date/Time of Educational Conference

- i The appropriate administrator or designee will notify the student/student organization in writing of the allegations and charge(s).
- ii The notice will include the date and time of an Educational Conference. The conference will be scheduled no earlier than five (5) days and no later than ten (10) days from the date of the notice unless requested by the student/student organization representative(s). If the time or date of the conference is not feasible to the student/student organization representative(s), the student/student organization representative(s) must notify the appropriate office based on the information provided in the notification within two (2) business days of the scheduled Educational Conference to reschedule.
- iii If at any time during the course of the judicial process, the appropriate administrator determines that either charges are not warranted or that insufficient evidence exist to continue, then the charges may be withdrawn, and the student/student organization representative(s) will be so notified in writing.

c. Educational Conference

- i Educational Conferences are facilitated by individuals identified by the Chief Judicial Officer. Individual Educational Conference for cases will be delegated by the appropriate administrator.
- ii The purpose of the Educational Conference is to review with the student/student organization representative(s) the allegations and charges, the code, the judicial process, the

hearing forum, possible sanctions, and to answer questions the student/student organization representative(s) may have.

- iii During the conference the charged student/student organization:

- 1. Will be presented with a list of rights and responsibilities as a charged student/student organization. The charged student/student organization will be requested to sign the document indicating that the rights have been explained and that the student/student organization's representative understands them.
- 2. Have the opportunity to accept or deny responsibility for the alleged violations. An acceptance of responsibility for the violations will constitute a waiver of the student/student organization's right to a hearing and appeal.

- iv If the student/student organization's representative fails to attend the Educational Conference without notice of reasonable cause, the case may be forwarded to the next step in the process.

d. Hearing

- i A student has the right to a fact finding hearing before a Hearing Officer.
- ii The purpose of the hearing is for the university to present the evidence related to the alleged violation, provide a time to allow the accused student/student organization to give a statement or present evidence, and to hear from witnesses.
- iii Absent a time extension, a hearing shall be scheduled no less than five (5) days from notice and no more than ten (10) days from the Educational Conference. Extensions may be granted to either the Hearing Officer (requests will be considered by the Chief Judicial Officer) or to a student, (requests will be considered by the Hearing Officer) provided all parties are notified about the request for time extension and the reason for the need for an extension.

5. Fact Finding Hearing and Determination of Sanctions, if Warranted

- a. **Hold on Student's Record:** The University may place a hold on the records or registration of any student who fails to respond to a university disciplinary notice or fulfill any sanctions previously issued by the university. All pending disciplinary matters must be resolved prior to a student's graduation, transfer from or continued education at the university.
- b. **Standard of Proof:** The duty to prove a disciplinary case rests with the university and the standard of proof shall be preponderance of the evidence. “Preponderance of the evidence” means that the information presented supports the findings that it was more likely than not that the violation occurred.
- c. **Advocate:** A charged student/student organization is entitled to have any one (1) person at the hearing to serve in the capacity as the Advocate. Student/student organization may consult with their advocate during the hearing process. However, this consultation must take place in a manner that does not disrupt the proceedings. The advocate shall not speak on behalf of the student, question witnesses, present information or argue before the panel. The advocate shall not serve as a witness. The student must notify the appropriate administrator no later than three (3) days prior to the hearing if the student will have an advocate present during the hearing.
- d. **Confidentiality:** All hearings shall be closed and confidential.

- e. **Accommodations for Students with Disabilities:** Any student with a disability may request reasonable accommodations during the disciplinary process. This request must be made to the appropriate office which handles accommodations for students with disabilities at least three (3) days in advance of the hearing. If necessary, the Hearing Officer may postpone the hearing to provide reasonable accommodations.
 - f. **Safety Procedures:** The Hearing Officer may accommodate concerns for the safety of the individuals involved by providing separate facilities or other alternatives.
 - g. **Pre-hearing Information Notice:** The University will make available pre-hearing information including a copy of the hearing procedures and copies of records that will be presented by the university at the hearing. The pre-hearing information will be available at least three (3) days in advance of the hearing.
 - h. **Failure to Appear:** If a charged student fails to appear, without giving notice of extenuating circumstances, the hearing may proceed in the student's absence.
 - i. **Role of the Hearing Officer:**
 - i. Accept information for consideration as deemed to be relevant. Repetitive testimony offered for the same purpose is an example of evidence the Hearing Officer might deem to not be necessary.
 - ii. Make procedural decisions relating to the hearing. Examples include requests for time extensions, assertions of conflict of interest affecting impartiality of hearing officer.
 - iii. Make procedural modifications in the interest of fairness or safety.
 - iv. Take action deemed necessary to maintain order in the hearing process.
 - j. **Right Not to Testify:** No student will be compelled to make self-incriminating statements.
 - k. **Information:** The Hearing Officer and the charged student/student organization will be given an opportunity to provide information. This may include, but is not limited to, pertinent records, documents, written or oral statements. The student/student organization will also be given an opportunity to inspect records held by the appropriate office.
 - l. **Witnesses:** The Hearing Officer and the charged student/student organization may call witnesses. In order to preserve the educational atmosphere of the hearing and to avoid creation of an adversarial environment, all questions for witnesses will be directed through the Hearing Officer. If a witness cannot appear, their written or recorded statement may be considered. Witnesses will be required to wait outside until their point of participation and will be asked to leave the hearing after being questioned.
 - m. **Multiple Students Charged:** In cases involving multiple students charged from the same incident, information obtained in one hearing may be used at another hearing subject to FERPA, HIPAA and other individual privacy considerations, and provided that each charged student involved has the opportunity to review and respond to the information at their hearing.
 - n. **Effective Date of Sanctions:** When the Hearing Officer's decision affects a student's academic status, the change will be effective immediately, and may only be changed based on the terms contained in the Hearing Officer's decision (e.g. a one year suspension) or based on the terms of a decision on appeal.
 - o. **Decisions of "responsible" or "not responsible" on the charge(s):** The Hearing Officer's decision letter shall be based on the information presented at the hearing. The Hearing Officer shall determine whether or not the student is responsible for violating the code as charged.
 - p. **Record:** There shall be a single record of all student/student organization conduct hearing and shall be maintained in the Office of the Dean of Students. This record is the official record and is the property of the university. For hearings before a Hearing Officer, the Officer's notes will become part of the record. The student/student organization may request a copy in writing which will be provided.
 - q. **Notice of Hearing Officer's Decision:** The Hearing Officer shall issue a written decision letter to the student/student organization within five (5) days following the conclusion of the hearing. This time may be extended, provided the student/student organization shall be notified of any such extensions. The decision letter shall explain the basis for the Hearing Officer's finding(s) on each charge and sanction for each charge if found responsible for the charge.
 - r. **Notice of Right to Appeal/Final Review:** The decision letter shall also inform the student/student organization of their right to appeal to an Appeal Officer, in writing, within five (5) days from the date of receipt of the Hearing Officer's decision letter.
6. **Appeal from Decision of Hearing Officer**
- a. **The Appeal Officer will review the notice of intent to appeal and determine:**
 - i. Whether the appeal was submitted timely; if not submitted timely, the Appeal Officer may decide to accept the appeal, if the appealing student requests a waiver of the time limit and provides the reason for the late submission which indicates an extenuating circumstance outside the student's control prevented a timely appeal; and
 - ii. Whether or not the notice of appeal states a permissible ground for appeal. If grounds for appeal have not been identified in the written notice of appeal, the appeal shall not be considered further, and the decision of the Hearing Officer will be upheld.
 - iii. Grounds for appeals are:
 - 1. procedural or prejudicial error was committed, or
 - 2. evidence not available at the time of the hearing is now available.
 - b. If proper grounds for appeal have been identified, and the appeal has been deemed timely, the Appeal Officer will proceed to review the matter.
 - c. Each party may submit a statement in writing explaining why they think the determination of the Hearing Officer should be upheld, reversed, or modified.
 - i. The statement from the student/student organization must be included with the request for appeal.
 - ii. The statement from the Hearing Officer will be submitted to the Appeal Officer, along with the hearing record, at the time the request for appeal is received. Absent a time extension, the Hearing Officer must submit the statement and the hearing record within two (2) days of receipt of appeal. The Appeal Officer may grant a time extension, upon notice to all parties.
 - d. The Appeal Officer will review the evidence presented at the hearing, any relevant policies or law, the decision of the Hearing

Officer and the submittals from the parties in order to issue a decision of the appeal in writing.

- e. The student/student organization will be notified of the decision by the Appeal Officer within five (5) days from receipt of the Request for Appeal, absent notification to all parties that additional time is needed in which to review. Delivery of the decision may be accomplished electronically to the student's official NMSU email address via the conduct database used by the university.
- f. The decision by the Appeal Officer will be final.

7. Records

- a. Records of all disciplinary actions imposed within the NMSU system shall be forwarded to the Office of the Dean of Students to maintain as the official student conduct record.
- b. Students found "not responsible" or cases in which charges are dropped are considered not to have a judicial record. However, the records will be maintained by the university in accordance with applicable State record retention laws or university policy whichever is longer.

8. Transcript Notations

- a. A notation will be placed on the student's transcript during any period of permanent probation, suspension, dismissal or expulsion. In the case of permanent probation, suspension, or dismissal the student, after a period of one year or term of sanction whichever is longer, may request to have the notation removed from the transcript by submitting a letter to the Dean of Students or Vice President of Student Services/Success with the reason the notation should be removed. The Dean of Students or appropriate Vice President for Student Services/Success will make the determination if the notation should be removed. The Dean of Students or appropriate Vice President of Student Services/Success's decision is final.
- b. If a student is expelled, a permanent notation will be placed on the student's transcript.

available to review and render a decision for an appeal due to time constraints, conflict of interest or other reason, the Vice-President of Student Affairs and Enrollment Management will serve as the Appeal Officer.

- c. Associate Director of Housing and Residential Life – The Associate Director for Housing and Residential Life will serve as the appeal officer for appeals resulting from hearings held by Hall Directors.

4. **Appropriate Administrator:** One of several key administrators involved in the investigation of alleged student social misconduct and corresponding administrative action, and to whose office suspected or observed student social misconduct should be reported:

- a. Assistant Dean of Students - Student Judicial Services – For misconduct alleged to have occurred on the NMSU-Las Cruces campus, other university property, off campus during a university sponsored event or involving students off campus but having an impact on campus.
- b. Associate Director for Housing and Campus Life – For misconduct alleged to have occurred within on-campus housing and on-campus housing parking lots.
- c. Community College Vice President of Student Services/Success – For misconduct alleged to have occurred at a community college or at an event sponsored by a community college or involving a community college student off campus but having an impact on campus.
- d. Office of Institutional Equity Director/Title IX Coordinator - For misconduct on university premises or at any university sponsored event involving discrimination on the basis of age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, serious medical condition, sex, sexual orientation, spousal affiliation, and protected veteran status, the Office of Institutional Equity Director/Title IX Coordinator will work with the Office of the Dean of Students or appropriate Community College Vice President for Student Services/Success.

5. **Charged Student:** Any student accused of violating the code, which incorporates applicable university policies and procedures. A breach of academic integrity is a violation of university policy and therefore, this code, and is subject to distinct investigative, sanction and disciplinary hearing and appeal process applies.

6. **Chief Judicial Officer:** The Dean of Students serves as the Chief Judicial Officer for NMSU. This position is responsible to ensure the Student Code of Conduct meets all legal requirements and available for students to locate and review. The Chief Judicial Officer is also responsible for ensuring the code is followed by the NMSU system.

7. **Complainant:** Also referred to as a "reporter", is any person who reports suspected or observed misconduct by a student; a complaint or report need not be in writing and may be submitted anonymously.

8. **Continuing Relationship:** A continuing relationship is one in which there remains a relationship between student and the university. For example, a student who is not enrolled during the summer months, but is expected to return in the fall is deemed to have a "continuing relationship" with the university.

9. **Day:** When used in this policy, "day" refers to an NMSU official business day, Monday through Friday, and excludes days which are official NMSU holidays and unplanned closures of the university.

10. **Educational Conference:** The educational conference is a step in the student conduct process which explains to the charged student the nature of the charges, the evidence in support of those charges,

Part VI: Definitions

1. **Advocate:** The advocate is an individual, of the student's choosing, who serves a supporting role to either the victim/complainant or to the charged student during the fact finding hearing or appeal processes. The advocate shall not actively advocate on behalf of the student, including the questioning of witnesses or the direct presentation of information to the hearing or appeal officer.
2. **Appeal:** The hearing review process by which a student may seek a final review of the decision made by the disciplinary Hearing Officer.
3. **Appeal Officer:** The individual who is designated, by position, to review and make a decision on appeals on each campus. The appropriate Appeal Officer shall be named in any decision letter.
 - a. Vice-President of Student Affairs and Enrollment Management – The Vice-President for Student Affairs and Enrollment Management, or designee, will serve as the appeal officer for appeals resulting from hearings held by the Office of the Dean of Students and in cases involving property owned by NMSU's Board of Regents other than community campuses.
 - b. Community College President – The appropriate community college president will serve as the appeal officer for students appealing the outcome of fact finding/sanction hearings conducted by a community college vice president of student services/success. If the community college president is not

and options for possible resolution, including an overview of the disciplinary hearing and appeal processes.

11. **Enrolled Student:** An individual who is registered for class regardless of when the class begins.
12. **Faculty Member:** Any person hired by NMSU to conduct classroom or teaching activities or who is otherwise considered by NMSU to be a member of its faculty.
13. **Good Standing:** A student in good standing is one who is not on conduct-related probation, deferred suspension, suspension, dismissal, or expulsion and has completed all misconduct related sanctions.
14. **Hearing:** A step in the student conduct process where the university presents the facts in support of the charge(s) against the student and the proposed sanction, and the student is allowed to provide the facts in support of the student's position to the Hearing Officer.
15. **Hearing Officer:** A university official authorized by the Chief Judicial Officer to conduct hearings in the matters of alleged violations of the code.
16. **In Writing:** Any form of written communication such as a hard copy letter or an email from the student's official NMSU email account.
17. **Mitigating or Aggravating Circumstances:** Circumstances which may be considered, at the discretion of the Hearing Officer, when deciding the level of responsibility or type of sanction to be imposed. These circumstances include the student's motive for engaging in the alleged misconduct; disciplinary history; and effect of the behavior on safety and security of the university community.
18. **Social Conduct:** Any conduct that is not addressed by the academic code of conduct and subject to those distinct policies and investigative/disciplinary procedures.
19. **Student:** A student includes all persons enrolled at NMSU or community colleges and persons who are not officially enrolled for a particular term but who have continuing academic relationships with the university. This includes the following:
 - a. Individuals enrolled in one or more credit hours;
 - b. Individuals who are degree seeking or non-degree seeking;
 - c. Individual who is in an academic related certificate program;
 - d. Individual who is registered for non-credit courses;
 - e. Individuals seeking dual credit;
 - f. Individuals attending Early College High School;
 - g. Individuals participating in credit bearing internships;
 - h. Individuals participating in national student exchange, study abroad, or international related programs connected to NMSU; and
 - i. Individuals able to access student services such as, but not limited to, student fee funded activities, counseling, social work services, student diversity and outreach, career services, and student success center.
20. **Student Organization:** Any group of students who are recognized by NMSU as a chartered student organization.
21. **University Community:** Includes any person who is a student, faculty member, staff member, or any other person employed by NMSU.
22. **University Official:** Includes any person employed by NMSU performing assigned administrative or professional responsibilities.
23. **University Premises:** University premises means all lands, facilities and other property owned, operated or controlled by the Board or Regents of NMSU.
24. **University Sponsored Activities:** University sponsored activities are those events and activities involving students, student organizations, or university departments, faculty members, or employees that are:
 - a. Expressly authorized, aided, conducted or supervised by the university;
 - b. Funded in whole or in part by the university;
 - c. Initiated by an officially chartered student organization and conducted or promoted in the name of that student organization or the university; or
 - d. Take place on university premises.
25. **Victim, also referred to as a "Complainant":** A person alleged to have been harmed by a student in violation of the Code.

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